

August 19, 2019

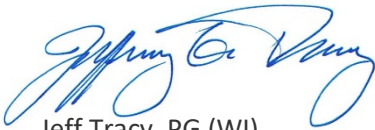
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**Subject: First and Second Quarter 2019 Quarterly Progress Report
Ripon HWY FF / NN Landfill NPL Site, License #467, Ripon, Wisconsin
BRRTS No. 02-20-000915**

Dear B.J.:

Enclosed is the quarterly status report for the First and Second Quarter 2019 for the FF/NN Landfill NPL Site. An electronic copy of this report will be provided via email. Please do not hesitate to call (262.834.0224) or e-mail (jtracy@geosyntec.com) me with any comments or questions.

Sincerely,



Jeff Tracy, PG (WI)
Senior Geologist

Attachment

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Quarterly Progress Report

**First and Second Quarter 2019
Reporting Period**

August 2019

A handwritten signature in black ink, reading "James E. Wedekind".

Prepared by:

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FF/NN Landfill NPL Site Ripon, Wisconsin

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A handwritten signature in black ink, reading "Marita Stollenwerk".

Reviewed and Approved by:

Marita Stollenwerk, P.G.
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1.0 Introduction

TRC was recently retained by the FF/NN Landfill PRP Group (Group) to conduct operations and maintenance (O&M) and quarterly monitoring activities at the FF/NN Landfill NPL Site (Site), in Ripon, Wisconsin (Figure 1). This report summarizes activities performed during the First and Second Quarters of 2019.

First Quarter (Q1) 2019 sampling activities occurred during February 2019 and were performed by Tetra Tech, Inc. (Tetra Tech). The Group retained TRC to replace Tetra Tech as the site environmental consultant in April 2019. The Second Quarter (Q2) 2019 sampling event occurred during May 2019 and was performed by TRC. This Quarterly Progress Report presents site activities during the First and Second Quarters of 2019 and is intended to fulfill applicable portions of reporting requirements specified in the Revised Groundwater Monitoring Program (GMP) as outlined in the April 18, 2013 conditional approval letter (as amended on June 8, 2017) (WDNR, 2013; 2017). This Quarterly Progress Report is supplemented by other submittals associated with the operating period addressed in this report, as summarized in Section 2.4.

Groundwater monitoring efforts continued on a quarterly basis throughout the reporting period. In addition, the soil vapor and leachate extraction systems operated intermittently during this reporting period. Operation of these systems was being reduced to determine the if the reduction would have an impact on groundwater concentrations and evaluate if natural attenuation is sufficiently effective to serve as the sole remedial alternative.

2.0 Activity This Period

This section describes the primary technical and administrative activities conducted on the project during this reporting period (First and Second Quarters of 2019).

2.1 Site Work

The following routine operational tasks were completed during this period. Details of these tasks are discussed in Section 3.

- Groundwater elevations were measured, and samples collected from 12 monitoring wells by Tetra Tech on February 5, 2019 in accordance with the GMP (WDNR, 2013; 2017).
- Groundwater elevations were measured from 29 monitoring wells by TRC on May 20, 2019. Groundwater samples were collected from 20 monitoring wells, one private drinking water well, and three (3) leachate extraction wells between May 21 - 22, 2019 in accordance with the GMP.
- Jeremy Jess from the City of Ripon performed landfill gas monitoring from the extraction system exhaust, gas vent GV-6, gas probe GP-1, and leachate collection wells LC-1, LC-2, and LC-3 on a monthly basis during January and February and starting on a biweekly basis in May and June 2019. Gas monitoring was not conducted during March and April because the system was not operating pending repairs.

- Annual landfill gas sampling was performed on May 20, 2019, in accordance with the GMP.

The following maintenance tasks or additional tasks were completed during this period:

- Project kickoff meeting completed with TRC, City of Ripon and Group personnel was held at the Site on May 8, 2019 to introduce TRC as the new environmental consultant to the project.
- The vapor extraction system was only partially operational between January through April 2019. While system repairs were being coordinated, biweekly system checks were intermittent. In January 2019, the system modem and controller were not operational, and a temporary replacement modem and controller were installed. During February 2019 the blower motor became non-operational. The blower was rebuilt, and the motor replaced on March 19, 2019; however, issues persisted with system overloading and not staying operational. On May 22, 2019 a new cellular modem and controller were installed, and normal system operations restarted. The system is currently set to run for 4 hours per day / 7 days a week.
- The landfill venting system; leachate monitoring wells; groundwater pumping, monitoring, and observation wells; and gas probes were inspected during routine monitoring activities. No maintenance issues were observed during the reporting period with the exception of additional work required at LC-1.
- Leachate collection well LC-1 was inspected on June 24, 2019 in an attempt to determine whether there is a breach in this well. Additional assessment of this potential breach is ongoing.
- No fence repairs were required during this time period.
- The site was mowed during the Second Quarter 2019.

2.2 Monitoring Program Modifications

Environmental monitoring at the Site began in 1992. Quarterly monitoring at select wells has been ongoing since active system operations began in 2005. Since that time, the monitoring program has been periodically modified based on data observations and field conditions. The current monitoring program is performed in accordance with the GMP (WDNR, 2013; 2017).

During Q1 and Q2 of 2019, environmental monitoring was conducted in accordance with the current approved monitoring approach (WDNR, 2013; 2017). On March 6, 2019, Mr. Aristeo (Resty) Pelayo of the WDNR and Mr. Jeff Tracy on behalf of the Group discussed installing an additional sentinel well west of the monitoring well P-118 due to periodic detections of vinyl chloride (VC) exceeding the Preventative Action Level (PAL) in that well likely due to analyzing

the samples using a method that achieves lower detection limits in March 2018. At the request of the WDNR, the Group began analyzing the groundwater samples using method 8260C, which has a lower detection limit (0.019 micrograms per liter [$\mu\text{g/L}$]) than the previous method, 8260 SIM (0.18 $\mu\text{g/L}$).

TRC and the Group reviewed locations for installation of a new sentinel well and determined that the previously discussed location west of P-118 near the intersection of the bike path (Northwestern Trail) and County Trunk Highway (CTH) PP is immediately adjacent to a closed landfill – Ripon Landfill HWY 23 (PP) BRRTS #02-20-000916 (HWY 23 Landfill). A file review performed by TRC identified that the landfill had received municipal and industrial wastes. Groundwater samples collected in May 1997 from shallow (<25 ft in depth) temporary wells detected chlorinated volatile organic compounds (CVOCs) including trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE) above their respective PALs. The WDNR records also indicate waste material may have been disposed in a secondary landfill directly north of the HWY 23 Landfill (north of the Northwestern Trail). The WDNR determined that the HWY 23 Landfill required no further action and closed the case in February 1998.

On June 28, 2019, TRC submitted a letter to Mr. Bruce J. (B.J.) LeRoy with the WDNR requesting that owing to the uncertainty on impact from the HWY 23 Landfill on deeper groundwater, the new sentinel well should not be placed in proximity to these sites. TRC proposed leaving P-118 as the sentinel well. The WDNR responded on July 1, 2019 indicating that that the need for a new sentinel well will be evaluated after sufficient groundwater data had been collected that could establish a discernable trend. Mr. LeRoy requested a contaminant isoconcentration map be included in the next quarterly report and further discussion would occur at a later date.

2.3 Sampling Events

Groundwater monitoring was conducted in February 2019 and May 2019 in accordance with the approved analytical programs referenced in Section 2.2. Quarterly monitoring results are further discussed in Section 3.2. Landfill gas monitoring was performed at a reduced interval during the First and Second Quarters of 2019 due to system operational issues as further discussed in Subsection 3.3.2. Vapor samples were collected for analysis on May 20, 2019. Results are discussed in Subsection 3.3.2. Data collected during this reporting period were submitted to the WDNR's Groundwater and Environmental Monitoring System (GEMS) on April 22, 2019 (Q1 results) and June 24, 2019 (Q2 results).

2.4 Deliverables, Correspondence, and Meetings

February 5, 2019	First Quarter 2019 Monitoring Event.
April 22, 2019	GEMS Transmittal of Data – First Quarter 2019 Monitoring data.
May 3, 2019	Notification of Change in Consultants Email to WDNR.
May 8, 2019	Kickoff meeting for TRC and Group at the Site.
May 9, 2019	Notification of Change in Consultants Letters sent to Private Property Owners.
May 21-22, 2019	Second Quarter 2019 Monitoring Event.

June 13, 2019	Notification of WDNR PM Change from Aristeo (Resty) Pelayo to Bruce J. (B.J.) LeRoy.
June 24, 2019	GEMS Transmittal of Data – Second Quarter 2019 Monitoring data.
June 28, 2019	TRC letter to WDNR regarding Sentinel Well Proposal (TRC, 2019).
July 1, 2019	Email Response from WDNR regarding Sentinel Well Proposal.

Contacts with the local community occurred during the routine sampling of monitoring wells located on private property and private drinking water wells and by means of the transmittals of the laboratory results to the potable well owner (Rohde) by the Group.

2.5 Landfill Site Inspections

The WDNR-approved Remedial Design (HIS GeoTrans, 1997) requires inspections of the FF/NN Landfill cap be performed annually. The landfill cap site inspection is anticipated to occur during the Third Quarter 2019.

The Site visits that occurred during the Kickoff meeting, quarterly sampling events, system repair efforts and LC-1 troubleshooting activities did not identify specific concerns associated with the landfill cap condition. An inspection of the landfill cap adjacent to LC-1 in June 2019 are ongoing. Due to heavy rain at the time of the inspection, TRC was unable to visually confirm the integrity of the condition of the boot connecting to the geotextile. This area will be re-inspected during the Third Quarter of 2019 and follow up actions determined upon completion of that inspection.

2.6 Personnel Changes

TRC replaced Tetra Tech as the Environmental Consultant for the FF/NN Landfill project in April 2019.

Bruce J. (B.J.) LeRoy replaced Aristeo (Resty) Pelayo as the project manager at the WDNR for the FF/NN Landfill project in May 2019.

3.0 Summary of Observation and Monitoring Data

3.1 Water Elevation Measurements

Groundwater monitoring wells associated with the FF/NN Landfill site are grouped into four hydrostratigraphic units (Layer 1, Layer 2, Layer 3, and Layer 4) based on well screen elevations to better evaluate groundwater quality at discrete intervals. Table 1 notes the grouping of wells in their respective layers.

During the First Quarter 2019 sampling event (February 5, 2019), groundwater elevations were measured at 12 monitoring wells for wells located in Layer 3 and Layer 4 only. Groundwater elevations were measured during the Second Quarter 2019 at 29 monitoring wells associated with the Site, and leachate collection wells LC-1, LC-2, and LC-3 (May 20, 2019). Elevations for both quarters are summarized in Table 1. All water levels were collected in accordance with the

current GMP (WDNR 2013; 2017). Attachment 1 contains a tabular summary of historic groundwater elevations. Figure 2 shows the layout of the monitoring well network.

3.1.1 Layer 1 Groundwater Elevations

Layer 1 contains nine monitoring wells with screen elevations ranging from 812 to 821 feet (ft) above Mean Sea Level (AMSL) screened within unconsolidated sand and gravel. Wells within this layer were gauged during the Second Quarter 2019. Figure 3 depicts the groundwater elevations and flow direction in Layer 1. Of note, despite LC-1 through LC-3 being noted as screened in Layer 1, since these are leachate collection wells, these water elevations are not included in gradients. Potentiometric surface elevations were noted as 0.36 ft to 2.64 ft higher than that noted during the Second Quarter 2018. Historical groundwater flow direction within Layer 1 is toward the southwest. Measurements made during the Second Quarter 2019 results are consistent with the historical groundwater flow direction.

3.1.2 Layer 2 Groundwater Elevations

Layer 2 contains eight monitoring wells with screen elevations ranging from 774 ft to 792 ft AMSL screened within unconsolidated sand and silt. Wells within this layer were gauged during the Second Quarter 2019. Figure 4 depicts the groundwater elevations and flow direction in Layer 2. Potentiometric surface elevations were noted as 0.37 ft to 1.41 ft higher than that noted during the Second Quarter 2018. Historical groundwater flow direction within Layer 2 is toward the south-southwest. Measurements made during the Second Quarter 2019 are consistent with the historical groundwater flow direction.

3.1.3 Layer 3 Groundwater Elevations

Layer 3 contains nine monitoring wells with screen elevations ranging from 634 to 704 ft AMSL and screened within sandstone bedrock. Wells within this layer were gauged during both the First and Second Quarter 2019 events.

During the First Quarter 2019 event, the Layer 3 potentiometric surface elevations were noted to be between 1.84 to 7.54 feet higher than that measured during March 2018. Historical groundwater flow in this layer has been to the southwest and becomes west-southwest further downgradient. The First Quarter 2019 groundwater flow direction is consistent with the historical results. Figure 5 depicts groundwater flow direction in Layer 3 from the First Quarter 2019.

During the Second Quarter 2019 event, the Layer 3 potentiometric surface elevations were noted to be between 0.8 ft lower and 0.25 feet higher than that measured in June 2018. Groundwater flow direction was toward the southwest and then to the west-southwest further downgradient, similar to that observed in the First Quarter 2019. Figure 6 depicts groundwater flow direction in Layer 3 from the Second Quarter 2019.

3.1.4 Layer 4 Groundwater Elevations

Layer 4 contains three wells with screen elevations from 508 ft to 570 ft AMSL and screened within sandstone or granitic bedrock. Wells within this layer were gauged during both the First and Second Quarter 2019 events.

During the First Quarter 2019, potentiometric surface elevations were noted to be between 4.04 and 4.79 ft higher than that measured in March 2018. Groundwater flow direction was noted as toward the west. The City of Ripon occasionally pumps from Municipal Well #9, which influences the groundwater flow direction in Layer 4. When Well #9 is operational, water flow is toward the southeast. Based on the westerly direction of groundwater flow observed during the First Quarter 2019, Municipal Well #9 was not being used during this event. This was confirmed by Chris Liveris, Utility Manager for the City of Ripon. Well #9 was off-line between January 19 and February 18 due to an equipment issue. Figure 7 depicts groundwater flow direction in Layer 4 from the First Quarter 2019.

During the Second Quarter 2019, potentiometric surface elevations were noted to be between 1.4 to 2.55 ft lower than that observed during the June 2018 sampling event. Based on the lower groundwater elevations and the southeasterly flow direction observed during the Second Quarter 2019, it is presumed that the City was actively pumping from Municipal Well #9 during this event. Mr. Liveris confirmed that Well #9 was online and in normal operation on that date. Figure 8 depicts the groundwater flow direction in Layer 4 from the Second Quarter 2019.

3.2 Groundwater Quality Monitoring

This subsection includes an evaluation of the groundwater quality for the First and Second Quarter 2019 reporting periods as required by the GMP (WDNR, 2013; 2017). The locations of the monitoring well network, including residential wells and site monitoring wells, are shown on Figure 2.

3.2.1 First Quarter 2019

Samples were collected from 12 monitoring wells on February 5, 2019 by Tetra Tech. Groundwater samples were analyzed by CT Laboratories for volatile organic compounds (VOCs) using EPA Method 8260C. Beginning in March 2018, the analytical method used for groundwater sampling was switched to EPA 8260C in order to achieve lower detection limits, as requested by the WDNR. Field forms from the First Quarter 2019 sampling event are included in Appendix A. Analytical results are included in Appendix B. VOC results exceeding the Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES) and the Preventive Action Limits (PAL) are included in Table 2.

Natural attenuation parameters were measured at selected wells as noted in the GMP (WDNR, 2013; 2017) including Dissolved oxygen (DO), oxygen-reduction potential (ORP), temperature, pH, and conductivity measured using a QED Mp20 MicroPurge Flow Cell meter. Ferrous iron was measured in the field using Parachem Reagents (Ferrous Iron Reagent pillow powders, Method 8008) for colorimetry analysis using a Hach DR900 multi-parameter colorimeter. Natural attenuation parameters are included in Table 3.

Contaminants of concern at the Site include TCE and its dichlorination byproducts, cis-1,2-DCE and VC. In the 12 wells sampled during the First Quarter 2019, VC was the only compound detected exceeding the ES and PAL. Items of note:

- Nine monitoring wells were sampled in Layer 3. VC was detected in wells P-103D, P-111D, P-114, P-115, and P-117 at concentrations exceeding the ES. VC was detected in

MW-003B at a concentration exceeding the PAL. Figure 9 depicts the VC plume extent during the First Quarter 2019 in Layer 3.

- Three monitoring wells were sampled in Layer 4. VC was detected only in P-107D at a level exceeding the ES. This concentration is lower than the reported analytical results from the Fourth Quarter 2018. Due to the limited number of samples collected from Layer 4, no groundwater plume map was created for this Layer.
- Other VOC detections were at concentrations below the PALs. Detections of note included:
 - Chlorinated compounds including chloroethane, chloromethane, cis-1,2-DCE, and TCE were noted at low levels in wells containing VC.
 - Acetone and chloromethane were noted in the trip blank and are likely due to laboratory or field cross contamination.

A summary of historical analytical data is included in Attachment 1. All analytical data from the wells located on private property (P-115) were sent to the WDNR in quarterly Data Transmittals.

3.2.2 Second Quarter 2019

Samples were collected from 20 monitoring wells, three leachate wells, and one private drinking water well between May 21 and 22, 2019 by TRC. Groundwater samples collected from monitoring wells were analyzed by CT Laboratories for VOCs using EPA Method 8260C. The sample collected from the Rohde drinking water well was analyzed for VOCs using EPA Method 524.2. Field forms from the Second Quarter 2019 sampling event are included in Appendix A. Analytical results are included in Appendix B. VOC results exceeding the Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES) and the Preventive Action Limits (PAL) are included in Table 4.

Natural attenuation parameters were measured on water removed from select wells as noted in the GMP (WDNR, 2013; 2017) including dissolved oxygen (DO), oxygen-reduction potential (ORP), temperature, pH, and conductivity measured using a QED Mp20 MicroPurge Flow Cell meter. Tetra Tech had been monitoring ferrous iron using Parachem Reagents (Ferrous Iron Reagent pillow powders, Method 8008) for colorimetry analysis using a Hach DR900 multi-parameter colorimeter. TRC was selected to be the environmental consultant for this project and recommended a change in the parameters monitored for evaluation of natural attenuation. With nearly 10 years of ferrous iron data, TRC recommended to the Group that this analysis be discontinued. Instead, based on experience at other chlorinated solvent sites, TRC recommended monitoring for nitrate + nitrate, sulfate, and manganese in accordance with WDNR guidance (WDNR, 2014). Sampling included analysis for these parameters, and a summary table of natural attenuation parameters are included in Table 5.

Contaminants of concern at the Site include TCE and its dechlorination products: 1,2-DCE and VC. VC is the only CVOC that exceeds the ES in groundwater in the Site groundwater monitoring network. TCE is present in the landfill leachate and is present at concentrations above the PAL

in two shallow monitoring wells within the Design Management Zone (DMZ) for the landfill. The sections below discuss items of note:

- Four monitoring wells were sampled within Layer 1. Results indicate that exceedances of the ES or PAL are focused in the immediate vicinity of the Site. Concentrations of TCE and VC remain either the same or slightly higher than that reported in 2018. VC in MW-104 increased from 0.04 ug/L (slightly above the PAL) in 2018 to 0.72 ug/L in 2019 to above the ES.
- Three monitoring wells were sampled within Layer 2. Results indicate VC concentrations similar to that reported in 2018. VC was above the ES in P-107, and above the PAL in P-103.
- Nine monitoring wells were sampled within Layer 3. VC was detected in wells P-103D, P-111D, P-114, P-115, and P-117, at concentrations exceeding the ES. VC was detected in MW-003B and P-118 at concentrations exceeding the PAL. Figure 10 depicts the VC plume extent during the Second Quarter 2019 in Layer 3. The extent of VC extends south to the outskirts of a residential area along Koro Road known as Arcade Acres then turns west possibly following a buried glacial valley that traverses the area.
- Three monitoring wells were sampled within Layer 4. VC was detected only in P-107D at a level exceeding the ES. This concentration was reported as slightly higher than that reported during the First Quarter 2019 sampling event.
- Three leachate collection wells were sampled during the Second Quarter 2019 event. Water was noted as black in color with a fetid odor. Although the leachate is not considered groundwater, the constituent concentrations were screened against groundwater standards for the purpose of comparison. Concentrations of VOCs noted as exceeding the ES in the leachate collection wells included 1,1,2,2-tetrachloroethane, benzene, chlorobenzene, cis-1,2-DCE, naphthalene, tetrahydrofuran, and TCE. VC concentrations were noted as detected, but detection limits were elevated when compared to other samples due to matrix interferences. In addition, matrix effects may have impacted sample acidity causing qualification associated with most of the results. Future samples collected from the LC wells will be unpreserved in order to avoid this qualification. Table 4 includes exceedances from the leachate collection wells and Table 6 details all detected concentrations within the wells.

Manganese occurs naturally in the environment and is not a constituent of concern at the Site but is commonly collected to evaluate MNA in groundwater. Manganese was detected in all samples except one collected during the Q2 sampling event for the Site. Although the manganese concentrations exceeded the ES or the PAL, the manganese concentrations detected in the samples reflect naturally occurring manganese in the aquifer and changes in aquifer geochemistry associated with bioactivity within the landfill.

Of note, during the Second Quarter 2019 sampling activities, the dedicated well pump at P-116 was noted as not working. The dedicated pump was removed for repair and a sample was collected using a rented pump brought as a backup.

A summary of historical analytical data is included in Attachment 1. Analytical data from the wells located on private properties were sent to the WDNR in quarterly Data Transmittals.

3.2.3 Volatile Organic Compounds Trend Discussion

TRC reviewed groundwater concentrations over time along the primary plume axis as reported in wells MW-104 in Layer 1; P-107 in Layer 2; P-103D, P-111D, P-114, P-117, and P-118 in Layer 3; and P-107D in Layer 4. Appendix B contain updated trend plots of the historical CVOC data from the selected site monitoring wells. Figures 9 and 10 show the distribution of VC in Layer 3 collected during the First and Second Quarter 2019 events. Trends in concentrations are visually inspected and discussed below. Graphs depicting the trends are included in Appendix C.

At MW-104 (Layer 1), CVOC concentrations had not been detected since startup of the active gas control system in 2006; however, during the Second Quarter 2019, sampling results indicate a detection of cis-1,2-DCE. Of note, the analytical methodology at the Site was switched from EPA Method 8260B to EPA Method 8260C in March 2018 to obtain lower detection limits. Detection limits for cis-1,2-DCE went from 0.26 µg/L to 0.07 µg/L. The detection of cis-1,2-DCE in MW-104 during the Second Quarter 2019 was noted as 0.2 J µg/L and was flagged as estimated due to the result being reported between the level of detection (0.07 µg/L) and the level of quantitation (0.23 µg/L). This detection is not likely indicative of increasing CVOC concentrations but is likely due to consistent low concentrations present in groundwater that are now detectable due to the switch to the more sensitive analytical method.

At P-107 (Layer 2) concentrations of chlorinated solvents have been stable, but seasonally variable since startup of the active gas control system in 2005. The last two annual events noted detections of TCE, with the Second Quarter 2019 result exceeding the PAL. Historically, detections of TCE were only noted in 1996 and 2001.

At P-103D and P-111 (Layer 3) concentrations of CVOCs are decreasing over time. At P-114 concentrations are stable-to-decreasing and at P-117 concentrations appear to be stable. Concentrations detected at P-118 appear to be indicative of the plume edge with concentrations fluctuating above and below the PAL.

At P-107D (Layer 4) concentrations are stable to decreasing.

3.2.4 Preliminary Monitored Natural Attenuation Evaluation

A comprehensive evaluation of MNA has not been not been conducted at this Site; however, initial review of the data suggests that MNA is a viable remedial alternative. Current lines of evidence include an anoxic environment with a continued source of organic carbon in the form of landfill leachate. CVOCs are of low concentration and are largely reduced to VC. The conceptual model suggests a “Type 1 behavior” (Wiedemeier, et al. 1998) where the conditions for anaerobic biodegradation are present and CVOCs are rapidly degraded. The results of the MNA analysis conducted during this reporting period are consistent with historical monitoring results and support the conceptual model. The carbon source driving the microbial degradation in these areas may be related to landfill impacts prior to closure, or the low concentrations of plume constituents themselves. Further downgradient of the landfill the amount of available carbon decreases and the amount of degradation slows. This combination of plume behaviors results in degradation of the highly chlorinated compounds (PCE and TCE) in and near the source area, and slower degradation of the less chlorinated daughter compounds (VC) in far-field portions of the plume.

The current monitoring network is sufficient to complete an MNA evaluation of the CVOC plume. The Group is committed to completion of such an evaluation to compile the necessary data as outlined in WDNR guidance (WDNR 2014) to establish the biologic and geochemical environment in the hydrostratigraphic layers of the aquifer and conduct the necessary statistical analysis to evaluate the plume dynamics.

3.3 Landfill Gas Extraction System Operations

The landfill gas treatment system has been operational since 2005 (GeoTrans, 2005). Landfill gas is extracted from gas vent GV-6 and the three deeper leachate collection wells (LC-1, LC-2, and LC-3). The other gas vents have remained closed to prevent oxygen levels from increasing above 5%. This subsection includes a discussion of system repairs and an evaluation of landfill gas monitoring results at the Site during the First and Second Quarters of 2019. The locations of the gas vents and gas probes are shown on Figure 2.

3.3.1 Landfill Gas Extraction System Troubleshooting and Repairs

3.3.1.1 System Repairs

The system modem and controller malfunctioned and went offline during the Fourth Quarter of 2018. A temporary replacement modem and controller were obtained from the system manufacturer (EOS) in January 2019; however, the system could not be reconfigured using the temporary modem. The system was operational, but if the system went offline, personnel did not receive remote notifications indicating the system was down. This resulted in long periods of the system being down during the month of January.

During February 2019, the blower motor stopped operating. The blower was rebuilt by Sabel Mechanical of Fond du Lac, Wisconsin and replaced on March 19, 2019. However, the blower continued overloading and shutting off the system. The system was not operational during most of February, March, April and May 2019.

On May 22, 2019, a new cellular wireless blower modem was purchased for the gas extraction system. After installation and download of appropriate software, the system was remotely restarted. Due to network program errors the system shut down, but these were corrected on May 27, 2019 and has been operational since that time.

During removal of the header for testing at LC-1 further described in Section 3.4.1.2 below, one of the two ports at LC-1 was damaged and fell off the wellhead assembly. Discussions with Jeremy Jess with the City of Ripon noted only one port was needed for vapor monitoring activities. TRC cleaned the remaining port and the location of the second port was capped with a brass fitting and sealed with silicone sealant. Overall, the system was off from 11am on Sunday (6/23/2019) through Tuesday morning (6/25/2019) at 7am. The system is currently back to normal operations (operational 4 hours per day – 7am to 11am).

3.3.1.2 Leachate Collection Well LC-1 Troubleshooting

In May 2018, Tetra Tech noted a change in the oxygen, carbon dioxide and methane concentrations, which were indicative of a potential leak, at LC-1. Reportedly, the levels of oxygen

increased, while the levels of methane and carbon dioxide decreased, suggesting that ambient air was entering into the well. Tetra Tech performed a soap test in August 2018. A leak was not identified during the soap test. Tetra Tech also completed a vertical gas measurement profile comparison between LC-1 and LC-2 in December 2018 that concluded there was a noticeable change in methane concentrations in LC-1 approximately 1 foot below ground surface, suggesting that the well casing may be damaged.

The FF/NN Landfill Group (Group) requested TRC evaluate conditions at LC-1, determine if a leak is present, and provide recommendations for repair. On June 24, 2019, TRC mobilized to the Site to perform an assessment of the leachate well LC-1. Conditions during the inspection event were cloudy with some periods of heavy rain.

TRC performed a vertical gas measurement profile comparison between LC-1 and LC-2, similar to that performed previously. TRC coordinated with Jeremy Jess with the City of Ripon to ensure the system did not operate on that day so the vertical profile measurements were indicative of static conditions. Gas measurements were collected from LC-1 and LC-2 to a depth of 10 feet (ft) below ground surface (bgs). The vertical vapor profile assessment provided the following results:

Depth below Ground Surface (feet)	LC-1			LC-2		
	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)
-10	34.8	17.4	08.7	66.4	31.7	00.1
-9	32.2	16.0	09.5	67.5	31.6	00.4
-8	31.0	15.4	10.1	64.1	30.2	01.2
-7	28.1	13.9	11.3	61.4	28.9	02.0
-6	26.5	13.1	11.7	58.9	28.0	02.4
-5	26.4	13.1	11.6	53.4	25.8	04.3
-4	26.0	12.9	11.9	50.7	24.8	05.3
-3	24.0	12.1	12.5	47.2	22.9	06.0
-2	23.5	11.7	12.8	47.5	23.2	05.6
-1	22.2	11.5	12.9	46.2	22.9	06.0
0	20.2	10.5	13.7	46.0	22.7	06.2
1	19.4	10.0	13.9	45.2	22.5	06.4
2	19.0	10.1	14.0	46.5	23.1	06.1
3	17.9	9.5	14.3	46.5	23.1	06.1
4	NA	NA	NA	46.3	23.0	06.0
ATM*	00.0	00.1	20.7	00.3	00.2	20.6

*ATM – Atmospheric measurement

As outlined above, observations from LC-1 noted methane between 17% and 19% within the above ground portion of the well head followed by a gradual increase to 35% at 10 ft bgs. Percent oxygen measurements within LC-1 were noted as higher throughout the entire profile than in LC-2. LC-2 was noted to having a higher percentage of methane ranging from 46% within the above-ground well head to 66% at 10 ft bgs.

TRC also conducted visual analysis of the well interior using a downhole camera. No obvious cracks or breaches were observed. A pipe connection (likely where the riser meets the screen) was observed about 9 feet below ground surface within the well, but it did not appear to be cracked or compromised.

TRC inspected the outside of LC-1 and noted some erosion at the base of the protective metal casing. The erosion extends approximately 4 to 8 inches bgs. A boot/liner was present around the above grade portion of the protective casing which appears to be connected to a liner 6 to 8 inches below grade. While inspecting the area around LC-1, a mix of water and bentonite was pooled within the depression around the well. TRC reached into the depression to feel the condition of the boot/liner, as visibility was restricted by the standing water. A tear may exist in the boot/liner along the north side of the well based on this inspection. Heavy precipitation hampered this investigation, so the well will be re-inspected when conditions are more favorable.

Overall, based on the interior inspection, the well casing did not appear to be compromised and methane was observed within the LC-1 well head and below grade. However, there could be a breach in the boot/liner near the well head that could cause a short-circuiting affect when the extraction system is in operation and potentially reduce the effectiveness of the extraction system. Based on review of historical analytical and field readings, it appears a decrease in methane concentrations with a concomitant increase in oxygen concentrations occurred this past year, and a similar trend was observed in the early part of 2019. Based on the intermittent operation of the extraction system during the early part of 2019, continued monitoring for the remainder of 2019 is recommended. In addition, TRC recommends a second inspection of the LC-1 wellhead during dry conditions to further determine if the well or surrounding cap have been compromised. Also, TRC recommends completing a shut-in test or smoke/fog test on the above grade extraction well header to test the integrity of the pipe sections to ensure no breaches are present in that part of piping system. A remedy plan, if needed, will be provided following additional inspections and testing.

3.3.2 Biweekly Landfill Gas Measurements

As part of Operation Monitoring and Maintenance Activities, biweekly landfill gas measurements are collected at six monitoring points at the Site. The six locations included leachate head wells LC-1, LC-2, LC-3; gas probe GP-1; gas vent GV-6; and at the exhaust stack from the blower. During the First and Second Quarter of 2019, operation of the system was intermittent and gas monitoring was not conducted at regular intervals until after the system was fully restarted on May 22, 2019. Table 7 summarizes the results of the bimonthly landfill gas monitoring during the reporting period.

Biweekly gas monitoring results at the Site were monitored when the system was in operation during the first two quarters of 2019. Gas results were similar to historical results with the exception of LC-1 which contained higher oxygen levels. The higher oxygen was also observed in 2018 as discussed in Subsection 3.3.1.2 above. In addition, gas readings showed that the offsite GP-1 well contained no methane concentrations and oxygen similar to ambient air which may be indicative that the gas extraction system is limiting offsite gas migration. Biweekly data will continue to be collected as the system is back to operating on a daily basis and further assessment of the system effectiveness will be completed during Q3 and Q4.

3.3.3 Landfill Gas Analytical Results

During the Second Quarter 2019 Monitoring Event, landfill gas samples were collected for analysis of VOCs using EPA Method TO-15 from LC-1, LC-2, LC-3, GV-6, and GP-3. Gas

samples were analyzed by ALS Environmental. Samples were collected on May 20, 2019. Table 8 summarizes landfill gas analytical sample results.

Historically, Tetra Tech used the sum of select VOCs to calculate a total VOC value and compared those values over time. Graphs depicting this are included in Appendix D. Results from the 2019 vapor analysis of landfill gas show similar results to the recent previous monitoring events. LC-3 has fluctuated an order of magnitude over the past few years and the 2019 results indicate a decrease from the 2018 monitoring event. The other monitored points compared to the 2018 results are consistent. TRC is evaluating recent and historical VOC data based on select groups of constituents of concern (COCs; i.e. petroleum-related COCs, chlorinated COCs, etc.) to further determine the effectiveness and need for the gas extraction system.

4.0 References

- GeoTrans, 2005, Pilot Test for Landfill Gas Extraction System, FF/NN Landfill, Ripon, Wisconsin, June 29, 2005
- HSI GEOTRANS, 1997, Construction Documentation Report, Final Cover System, FF/NN Landfill, Ripon, Wisconsin. June 23, 1997.
- TRC 2019. Sentinel Well Proposal. Ripon HWY FF/NN Landfill License #467. June 28, 2019.
- WDNR, 2013. Conditional Approval of Revised Groundwater Monitoring Program for the Ripon HWY FF/NN Landfill, Ripon HWY FF/NN Landfill, License #467, Ripon, WI, WDNR BRRTS #02-20-000915, April 18, 2013.
- WDNR, 2017. Proposed Second Replacement Sentinel Monitoring Well Work Plan Approval for Ripon HWY FF/NN Landfill, License #467, Ripon, WI, WDNR BRRTS #02-20-000915, June 8, 2017
- Wiedemeier, T.H., M.A. Swanson, D.E. Moutoux, E.K. Gordon, J.T. Wilson, B.H. Wilson, D.H. Kampbell, P.E. Haas, R.N. Miller, J.E. Hansen, and F.H. Chapelle. 1998. Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater. San Antonio, Texas: Air Force Center of Environmental Excellence. United States Environmental Protection Agency. Office of Research and Development. EPA/600/R-98/128. September 1998.

Table 1
Water Levels, First and Second Quarter 2019

Table 2
Parameters That Exceed Current NR140 Standards, First Quarter 2019

Table 3
Detected Parameters in Groundwater, First Quarter 2019

Table 4
Parameters That Exceed Current NR140 Standards, Second Quarter 2019

Table 5
Detected Parameters in Groundwater, Second Quarter 2019

Table 6
Detected Parameters in Leachate, Second Quarter 2019

Table 7
Gas Monitoring Results, First and Second Quarter 2019

Table 8
Detected Parameters In Vapor, Second Quarter 2019

Table 1
Water Levels
FF/NN Landfill
Ripon, Wisconsin
First and Second Quarter 2019

Well Name	GW Layer	TOC Elevation Feet AMSL	Q1	Q1	Q2	Q2
			Depth to Water (Feet)	GW Elevation (Feet AMSL)	Depth to Water (Feet)	GW Elevation (Feet AMSL)
			2/5/2019	2/5/2019	5/21/2019	5/21/2019
MW-101	1	884.73	NM	NM	59.96	824.77
P-101	2	885.39	NM	NM	60.55	824.84
MW-102	1	842.90	NM	NM	15.82	827.08
P-102	2	842.85	NM	NM	17.68	825.17
MW-103	1	872.30	NM	NM	49.67	822.63
P-103	2	872.74	NM	NM	48.17	824.57
P-103D	3	872.91	49.32	823.59	49.25	823.66
MW-104	1	875.20	NM	NM	49.77	825.43
P-104	2	875.40	NM	NM	50.71	824.69
MW-106	1	878.75	NM	NM	53.69	825.06
P-106	2	878.80	NM	NM	53.76	825.04
MW-107	1	871.69	NM	NM	50.52	821.17
P-107	2	871.33	NM	NM	50.08	821.25
P-107D	4	871.90	49.52	822.38	51.36	820.54
MW-108	1	845.08	NM	NM	25.68	819.40
P-108	2	845.48	NM	NM	23.41	822.07
MW-111	1	856.09	NM	NM	36.66	819.43
P-111	2	856.28	NM	NM	36.64	819.64
P-111D	3	855.56	32.84	822.72	34.22	821.34
MW-112	1	874.70	NM	NM	52.99	821.71
P-113A	4	833.16	11.21	821.95	12.88	820.28
P-113B	3	833.16	11.98	821.18	12.71	820.45
P-114	3	839.36	18.50	820.86	18.86	820.50
P-115	3	842.67	21.69	820.98	22.12	820.55
P-116	3	845.86	25.72	820.14	26.89	818.97
P-117	3	833.96	14.71	819.25	14.79	819.17
P-118	3	826.74	7.60	819.14	7.67	819.07
MW-3A	4	850.60	27.82	822.78	30.32	820.28
MW-3B	3	850.89	28.22	822.67	29.08	821.81
LC-1	1	873.15	822.38	NM	33.14	840.01
LC-2	1	866.05	NM	NM	33.59	832.46
LC-3	1	877.34	NM	NM	11.73	865.61

Notes:

GW - Groundwater

TOC - Top of Casing

AMSL - Above Mean Sea Level

NM = Well not measured

Table 2
Parameters That Exceed Current NR140 Standards
FF/NN Landfill
Ripon, Wisconsin
First Quarter 2019

Chemical Parameter	Units	NR140 PAL	NR140 ES	Well ID	Date	Result	Data Flags	Exceedance
Vinyl chloride	µg/L	0.02	0.2	MW-003B	2/5/2019	<i>0.045</i>	J	PAL
				P-103D	2/5/2019	0.25		ES
				P-107D	2/5/2019	3.2		ES
				P-111D	2/5/2019	3.9		ES
				P-114	2/5/2019	7.1		ES
				P-114 DUP	2/5/2019	7.2		ES
				P-115 (WIESE)	2/5/2019	0.98		ES
				P-117	2/5/2019	1.4		ES

Notes:

1. µg/l = micrograms per liter (ppb).
2. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
3. NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
4. **BOLD** = Exceedance (or potential exceedance if J- or B-flagged) of the NR 140, WAC ES.
5. *Italics* = Exceedance (or potential exceedance if J- or B-flagged) of the NR 140, WAC PAL.
6. J = Reported concentration is estimated, between the Limit of Detection (LOD) and the Limit Of Quantitation (LOQ).

Created by: P. Popp
Checked by: M. Stollenwerk

Table 3
Detected Parameters in Groundwater
FF/NN Landfill
Ripon, Wisconsin
First Quarter 2019

Parameter	Units	NR140 ES	NR 140 PAL	MW-003A 2/5/2019 240179	MW-003B 2/5/2019 240180	P-103D 2/5/2019 240183	P-107D 2/5/2019 240184	P-111D 2/5/2019 240185	P-113A 2/5/2019 240181	P-113B 2/5/2019 240182
pH, field	SU			7.69	7.7	7.12	7.55	7.64	7.99	7.81
Conductance, specific	µmhos/cm			518	600	713	543	817	509	618
ORP	mV			-82	-105	-78	-37	-107	-95	-105
Oxygen, dissolved	mg/L			2.14	.3	.4	1.33	.26	3.59	1.66
Turbidity, field				NONE	NONE	NONE	NONE	NONE	NONE	NONE
Temperature	Deg C			8.34	8.7	8.95	8.81	8.93	5.09	9.21
Iron +2	mg/L			0.04	0.95	1.94	0.06	1.38	0.16	1.03
Color, field				NONE	NONE	NONE	NONE	NONE	NONE	NONE
Odor, field				NONE	NONE	NONE	NONE	NONE	NONE	NONE
Acetone	µg/L	9000	1800	0.34 J	0.61 J	< 0.30	0.64 J	0.51 J	0.68 J	0.45 J
Benzene	µg/L	5	0.5	< 0.018	< 0.018	0.034 J	< 0.018	< 0.018	< 0.018	< 0.018
Carbon disulfide	µg/L	1000	200	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070
Chloroethane	µg/L	400	80	< 0.070	< 0.070	< 0.070	0.66	1.1	< 0.070	< 0.070
Chloromethane	µg/L	30	3	0.1 J	.077 J	0.18	0.28	0.2	0.27	0.21
cis-1,2-Dichloroethene	µg/L	70	7	< 0.070	< 0.070	0.27	0.77	2.7	< 0.070	< 0.070
Dichlorodifluoromethane	µg/L	1000	200	< 0.060	< 0.060	< 0.060	< 0.060	0.067 J	< 0.060	< 0.060
Naphthalene	µg/L	100	10	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
Trichloroethene	µg/L	5	0.5	< 0.050	< 0.050	0.052 J	< 0.050	< 0.050	< 0.050	< 0.050
Vinyl chloride	µg/L	0.2	0.02	< 0.019	0.045 J	0.25	3.2	3.9	< 0.019	< 0.019

Notes:

1. µg/l = micrograms per liter (ppb).
2. SU = Standard Units
3. µmhos/cm = microSiemens per centimeter
4. Deg C = Degrees Celcius
5. mV = millivolts
6. mg/L = milligrams per liter (ppm).
7. Metals analyzed using EPA Method 6010.
8. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
9. NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
10. **BOLD** = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC ES.
11. *Italics* = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC PAL.
12. ORP - Oxidation Reduction Potential

Created by: P. Popp
Checked by: M. Stollenwerk

Table 3
Detected Parameters in Groundwater
FF/NN Landfill
Ripon, Wisconsin
First Quarter 2019

Parameter	Units	NR140 ES	NR 140 PAL	P-114 2/5/2019 240188	P-114 DUP 2/5/2019 240189	P-115 (Wiese) 2/5/2019 240190	P-116 (Hadel) 2/5/2019 240191	P-117 2/5/2019 240186	P-118 2/5/2019 240187	Trip Blank 2/5/2019 240192
pH, field	SU			7.81		7.82	7.93	7.62	7.8	
Conductance, specific	µmhos/cm			720		589	500	697	541	
ORP	mV			-114		-115	-83	-92	-86	
Oxygen, dissolved	mg/L			.17		.32	.62	.72	1.12	
Turbidity, field				NONE		NONE	NONE	NONE	NONE	
Temperature	Deg C			9.39		9.47	6.18	9.05	9.04	
Iron +2	mg/L			0.96		0.88	0.14	1.22	0.31	
Color, field				NONE		NONE	NONE	NONE	NONE	
Odor, field				NONE		NONE	NONE	NONE	NONE	
Acetone	µg/L	9000	1800	0.35 J	< 0.30	0.47 J	0.46 J	< 0.30	0.48 J	0.42 J
Benzene	µg/L	5	0.5	< 0.018	< 0.018	< 0.018	< 0.018	0.022 J	< 0.018	< 0.018
Carbon disulfide	µg/L	1000	200	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	0.14 J	< 0.070
Chloroethane	µg/L	400	80	0.22 J	0.23	< 0.070	< 0.070	0.37	< 0.070	< 0.070
Chloromethane	µg/L	30	3	< 0.040	0.11 J	0.058 J	0.1 J	0.057 J	0.13	0.042 J
cis-1,2-Dichloroethene	µg/L	70	7	1.6	1.6	0.12 J	< 0.070	0.77	< 0.070	< 0.070
Dichlorodifluoromethane	µg/L	1000	200	0.061 J	0.073 J	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060
Naphthalene	µg/L	100	10	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	0.057 J	< 0.030
Trichloroethene	µg/L	5	0.5	< 0.050	< 0.050	< 0.050	< 0.050	0.07 J	< 0.050	< 0.050
Vinyl chloride	µg/L	0.2	0.02	7.1	7.2	0.98	< 0.019	1.4	< 0.019	< 0.019

Notes:

1. µg/l = micrograms per liter (ppb).
2. SU = Standard Units
3. µmhos/cm = microSiemens per centimeter
4. Deg C = Degrees Celcius
5. mV = millivolts
6. mg/L = milligrams per liter (ppm).
7. Metals analyzed using EPA Method 6010.
8. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
9. NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
10. **BOLD** = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC ES.
11. *Italics* = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC PAL.
12. ORP - Oxidation Reduction Potential

Created by: P. Popp
Checked by: M. Stollenwerk

Table 4
Parameters That Exceed Current NR140 Standards
FF/NN Landfill
Ripon, Wisconsin
Second Quarter 2019

Chemical Parameter	Units	NR140 PAL	NR140 ES	Well ID	Date	Result	Data Flags	Exceedance
1,1,2,2-Tetrachloroethane	µg/L	0.02	0.2	LC-1	5/21/2019	30	JTj	ES
Benzene	µg/L	0.5	5	LC-2	5/21/2019	18	Tj	ES
Chlorobenzene	µg/L	20	100	LC-2	5/21/2019	170	Tj	ES
cis-1,2-Dichloroethene	µg/L	7	70	LC-3	5/21/2019	170	Tj	ES
Manganese, total	µg/L	25	50	LC-1	5/21/2019	26200		ES
				LC-2	5/21/2019	1880		ES
				LC-3	5/21/2019	1680		ES
				MW-003A	5/21/2019	491		ES
				MW-003B	5/21/2019	75.7		ES
				MW-103	5/22/2019	62.4		ES
				MW-104	5/22/2019	145		ES
				MW-107	5/21/2019	40.8		PAL
				MW-112	5/22/2019	368		ES
				P-103	5/22/2019	93.5		ES
				P-103D	5/22/2019	89.5		ES
				P-106	5/22/2019	66.4		ES
				P-107	5/21/2019	148		ES
				P-107D	5/21/2019	227		ES
				P-111D	5/22/2019	33		PAL
				P-111D DUP	5/22/2019	32.8		PAL
				P-113B	5/21/2019	36.6		PAL
				P-114	5/22/2019	68.5		ES
				P-114 DUP	5/22/2019	67.1		ES
				P-115 (WIESE)	5/22/2019	140		ES
P-116 (HADEL)	5/22/2019	162		ES				
P-117	5/21/2019	228		ES				
P-118	5/21/2019	118		ES				
RHODE	5/22/2019	63.2		ES				
Naphthalene	µg/L	10	100	LC-1	5/21/2019	100	Tj	ES
Nitrogen, nitrate, total	mg/L	2	10	MW-103	5/22/2019	21		ES
				MW-112	5/22/2019	2.2		PAL

Table 4
Parameters That Exceed Current NR140 Standards
FF/NN Landfill
Ripon, Wisconsin
Second Quarter 2019

Chemical Parameter	Units	NR140 PAL	NR140 ES	Well ID	Date	Result	Data Flags	Exceedance
Sulfate, total	mg/L	125	250	LC-3	5/21/2019	640		ES
				MW-103	5/22/2019	<i>150</i>		PAL
Tetrahydrofuran	µg/L	10	50	LC-1	5/21/2019	130	JTj	ES
				LC-2	5/21/2019	110	Tj	ES
				LC-3	5/21/2019	82	JTj	ES
Trichloroethene	µg/L	0.5	5	LC-3	5/21/2019	14	Tj	ES
				MW-103	5/22/2019	<i>1.4</i>		PAL
				MW-112	5/22/2019	<i>0.99</i>		PAL
Vinyl chloride	µg/L	0.02	0.2	MW-003B	5/21/2019	<i>0.058</i>	J	PAL
				MW-104	5/22/2019	0.72		ES
				MW-112	5/22/2019	<i>0.031</i>	J	PAL
				P-103	5/22/2019	<i>0.036</i>	J	PAL
				P-103D	5/22/2019	0.31		ES
				P-107	5/21/2019	0.95		ES
				P-107D	5/21/2019	5.2		ES
				P-111D	5/22/2019	4.2		ES
				P-111D DUP	5/22/2019	3.7		ES
				P-114	5/22/2019	7.3		ES
				P-114 DUP	5/22/2019	6.8		ES
				P-115 (WIESE)	5/22/2019	0.94		ES
				P-117	5/21/2019	1.2		ES
P-118	5/21/2019	<i>0.057</i>	J	PAL				

Notes:

1. µg/l = micrograms per liter (ppb).
2. mg/L = milligrams per liter (ppm).
2. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
3. NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
4. **BOLD** = Exceedance (or potential exceedance if J- or B-flagged) of the NR 140, WAC ES.
5. *Italics* = Exceedance (or potential exceedance if J- or B-flagged) of the NR 140, WAC PAL.
6. J = Reported concentration is estimated, between the Limit of Detection (LOD) and the Limit Of Quantitation (LOQ).
7. j = Estimated Result, As Qualified By Data Validation
8. T = Sample received with improper preservation or temperature.

Created by: P. Popp
Checked by: M. Stollenwerk

Table 5
Detected Parameters in Groundwater
FF/NN Landfill
Ripon, Wisconsin
Second Quarter 2019

Parameter	Units	NR140 ES	NR140 PAL	MW-003A	MW-003B	MW-103	MW-104	MW-107	MW-112
				5/21/2019 286286	5/21/2019 286287	5/22/2019 286328	5/22/2019 286332	5/21/2019 286283	5/22/2019 286331
Depth to water	Feet			30.32	29.08	49.67	49.77	50.52	52.99
Water elevation	Feet			820.28	821.81	822.63	825.38	821.17	821.71
pH, field	SU			7.36	7.30	7.21	6.96	7.66	7.26
Conductance, specific	µmhos/cm			569.20	717.30	1112.0	1095.4	1142.1	844.0
ORP	mV			-8.8	-60.70	-6.1	36.2	95.4	19.9
Oxygen, dissolved	mg/L			0.22	0.17	6.17	1.77	8.33	2.82
Turbidity, field				NONE	NONE	SLIGHT	MOD	SLIGHT	SLIGHT
Temperature	Deg C			9.61	9.48	13.51	13.58	17.01	14.29
Color, field				NONE	NONE	NONE	LT BLACK	LT TAN	LT BROWN
Odor, field				LT SEPTIC	NONE	NONE	LEACHATE	NONE	NONE
Nitrogen, nitrate, total	mg/L					21	< 0.12		2.2
Sulfate, total	mg/L	250	125	20	67	150	29	18	67
Manganese, total	µg/L	50	25	491	75.7	62.4	145	40.8	368
1,4-Dichlorobenzene	µg/L	75	15	< 0.04	< 0.04	< 0.04	1.6	< 0.04	< 0.04
Acetone	µg/L	9000	1800	< 0.3	0.44 JBu	3.3 B	2.2 Bu	1.3 Bu	0.64 JBu
Carbon disulfide	µg/L	1000	200	< 0.07	< 0.07	< 0.07	0.16 J	< 0.07	< 0.07
Chlorobenzene	µg/L	100	20	< 0.04	< 0.04	< 0.04	3.6	< 0.04	0.058 J
Chloroethane	µg/L	400	80	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07
cis-1,2-Dichloroethene	µg/L	70	7	< 0.07	< 0.07	0.34	0.2 J	< 0.07	0.28
Isopropylbenzene	µg/L			< 0.04	< 0.04	< 0.04	0.17	< 0.04	< 0.04
Methyl-tert-butyl-ether	µg/L	60	12	< 0.04	< 0.04	< 0.04	0.054 J	< 0.04	< 0.04
p-Isopropyltoluene	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
sec-Butylbenzene	µg/L			< 0.05	< 0.05	< 0.05	0.061 J	< 0.05	< 0.05
Tetrachloroethene	µg/L	5	0.5	< 0.05	< 0.05	0.27	< 0.05	< 0.05	0.25
Toluene	µg/L	800	160	< 0.04	< 0.04	< 0.04	0.041 J	< 0.04	< 0.04
Trichloroethene	µg/L	5	0.5	< 0.05	< 0.05	1.4	0.054 J	< 0.05	0.99
Vinyl chloride	µg/L	0.2	0.02	< 0.019	0.058 J	< 0.019	0.72	< 0.019	0.031 J

Notes:

1. µg/l = micrograms per liter (ppb).
2. SU = Standard Units
3. µmhos/cm = microSiemens per centimeter
4. Deg C = Degrees Celcius
5. mV = millivolts
6. mg/L = milligrams per liter (ppm).
7. Metals analyzed using EPA Method 6010.
8. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
9. NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
10. **BOLD** = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC ES.
11. *Italics* = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC PAL.
12. ORP - Oxidation Reduction Potential

Created by: P. Popp
Checked by: M. Stollenwerk

Table 5
Detected Parameters in Groundwater
FF/NN Landfill
Ripon, Wisconsin
Second Quarter 2019

Parameter	Units	NR140 ES	NR140 PAL	P-103	P-103D	P-106	P-107	P-107D	P-111D
				5/22/2019 286330	5/22/2019 286329	5/22/2019 286327	5/21/2019 286282	5/21/2019 286279	5/22/2019 286319
Depth to water	Feet			48.17	49.25	53.76	50.08	51.36	34.22
Water elevation	Feet			824.57	823.66	825.15	821.25	820.54	821.34
pH, field	SU			7.09	7.14	7.29	6.90	7.19	7.04
Conductance, specific	µmhos/cm			768.4	796.7	701.8	832.5	637.4	903.5
ORP	mV			-4.0	-11.3	-22.6	26.0	83.5	19.2
Oxygen, dissolved	mg/L			0.18	0.28	0.42	0.60	0.84	0.13
Turbidity, field				NONE	NONE	NONE	NONE	NONE	NONE
Temperature	Deg C			10.69	11.26	11.06	11.05	9.81	9.70
Color, field				NONE	NONE	NONE	NONE	NONE	NONE
Odor, field				NONE	NONE	NONE	NONE	NONE	NONE
Nitrogen, nitrate, total	mg/L			< 0.12	< 0.12	< 0.12			
Sulfate, total	mg/L	250	125	69	72	84	84	29	62
Manganese, total	µg/L	50	25	93.5	89.5	66.4	148	227	33
1,4-Dichlorobenzene	µg/L	75	15	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Acetone	µg/L	9000	1800	0.36 JBu	0.32 JBu	< 0.3	0.6 JBu	0.87 JBu	0.45 JBu
Carbon disulfide	µg/L	1000	200	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07
Chlorobenzene	µg/L	100	20	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Chloroethane	µg/L	400	80	< 0.07	< 0.07	< 0.07	0.081 J	1.3	0.93
cis-1,2-Dichloroethene	µg/L	70	7	< 0.07	0.3	< 0.07	0.28	1.7	2.8
Isopropylbenzene	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Methyl-tert-butyl-ether	µg/L	60	12	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
p-Isopropyltoluene	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
sec-Butylbenzene	µg/L			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethene	µg/L	5	0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	µg/L	800	160	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Trichloroethene	µg/L	5	0.5	< 0.05	0.086 J	0.15 J	0.074 J	0.12 J	< 0.05
Vinyl chloride	µg/L	0.2	0.02	0.036 J	0.31	< 0.019	0.95	5.2	4.2

Notes:

1. µg/l = micrograms per liter (ppb).
2. SU = Standard Units
3. µmhos/cm = microSiemens per centimeter
4. Deg C = Degrees Celcius
5. mV = millivolts
6. mg/L = milligrams per liter (ppm).
7. Metals analyzed using EPA Method 6010.
8. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
9. NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
10. **BOLD** = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC ES.
11. *Italics* = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC PAL.
12. ORP - Oxidation Reduction Potential

Created by: P. Popp
Checked by: M. Stollenwerk

Table 5
Detected Parameters in Groundwater
FF/NN Landfill
Ripon, Wisconsin
Second Quarter 2019

Parameter	Units	NR140 ES	NR140 PAL	P-111D DUP 5/22/2019 286334	P-113A 5/21/2019 286284	P-113B 5/21/2019 286285	P-114 5/22/2019 286325	P-114 DUP 5/22/2019 286333
Depth to water	Feet				12.88	12.71	18.86	
Water elevation	Feet				820.28	820.45	820.5	
pH, field	SU				7.40	7.15	7.27	
Conductance, specific	µmhos/cm				558.4	679.8	803.6	
ORP	mV				16.4	-28.40	-23.40	
Oxygen, dissolved	mg/L				1.61	0.21	0.14	
Turbidity, field					NONE	NONE	NONE	
Temperature	Deg C				10.22	10.17	10.03	
Color, field					NONE	NONE	NONE	
Odor, field					NONE	NONE	NONE	
Nitrogen, nitrate, total	mg/L			< 0.12			< 0.12	< 0.12
Sulfate, total	mg/L	250	125	62	11	73	62	62
Manganese, total	µg/L	50	25	32.8	10.6 J	36.6	68.5	67.1
1,4-Dichlorobenzene	µg/L	75	15	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Acetone	µg/L	9000	1800	< 0.3	< 0.3	0.33 JBu	0.47 JBu	0.38 JBu
Carbon disulfide	µg/L	1000	200	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07
Chlorobenzene	µg/L	100	20	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Chloroethane	µg/L	400	80	0.8	< 0.07	< 0.07	0.27	0.28
cis-1,2-Dichloroethene	µg/L	70	7	2.4	< 0.07	< 0.07	1.7	1.7
Isopropylbenzene	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Methyl-tert-butyl-ether	µg/L	60	12	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
p-Isopropyltoluene	µg/L			< 0.04	< 0.04	< 0.04	0.15	0.15
sec-Butylbenzene	µg/L			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethene	µg/L	5	0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	µg/L	800	160	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Trichloroethene	µg/L	5	0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Vinyl chloride	µg/L	0.2	0.02	3.7	< 0.019	< 0.019	7.3	6.8

Notes:

1. µg/l = micrograms per liter (ppb).
2. SU = Standard Units
3. µmhos/cm = microSiemens per centimeter
4. Deg C = Degrees Celcius
5. mV = millivolts
6. mg/L = milligrams per liter (ppm).
7. Metals analyzed using EPA Method 6010.
8. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
9. NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
10. **BOLD** = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC ES.
11. *Italics* = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC PAL.
12. ORP - Oxidation Reduction Potential

Created by: P. Popp
Checked by: M. Stollenwerk

Table 5
Detected Parameters in Groundwater
FF/NN Landfill
Ripon, Wisconsin
Second Quarter 2019

Parameter	Units	NR140 ES	NR140 PAL	P-115 (Wiese) 5/22/2019 286326	P-116 (Hadel) 5/22/2019 286335	P-117 5/21/2019 286288	P-118 5/21/2019 286289	Rhode 5/22/2019 286323	Trip Blank 5/22/2019 286370
Depth to water	Feet			22.12	26.89	14.79	7.67		
Water elevation	Feet			820.55	818.97	819.17	819.07		
pH, field	SU			7.40	7.43	7.18	7.51	7.48	
Conductance, specific	µmhos/cm			649.9	571.1	783.2	594.4	522.3	
ORP	mV			-45.0	67.8	-33.6	-16.7	-14.1	
Oxygen, dissolved	mg/L			0.20	3.36	0.25	0.17	1.98	
Turbidity, field				SLIGHT	VERY	NONE	NONE	NONE	
Temperature	Deg C			10.55	18.03	9.77	10.07	10.55	
Color, field				LT TAN	RUST	NONE	NONE	NONE	
Odor, field				NONE	NONE	NONE	LT SULF	NONE	
Nitrogen, nitrate, total	mg/L			< 0.12	< 0.12				
Sulfate, total	mg/L	250	125	40	15	62	22	28	
Manganese, total	µg/L	50	25	140	162	228	118	63.2	
1,4-Dichlorobenzene	µg/L	75	15	< 0.04	< 0.04	< 0.04	< 0.04	< 0.29	< 0.04
Acetone	µg/L	9000	1800	0.55 JBu	0.75 JBu	0.55 JBu	0.57 JBu		0.57 JBu
Carbon disulfide	µg/L	1000	200	0.074 J	< 0.07	< 0.07	< 0.07		< 0.07
Chlorobenzene	µg/L	100	20	< 0.04	< 0.04	< 0.04	< 0.04	< 0.25	< 0.04
Chloroethane	µg/L	400	80	< 0.07	< 0.07	0.32	< 0.07	< 0.3	< 0.07
cis-1,2-Dichloroethene	µg/L	70	7	0.14 J	< 0.07	0.76	< 0.07	< 0.28	< 0.07
Isopropylbenzene	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.29	< 0.04
Methyl-tert-butyl-ether	µg/L	60	12	< 0.04	< 0.04	< 0.04	< 0.04	< 0.26	< 0.04
p-Isopropyltoluene	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.25	< 0.04
sec-Butylbenzene	µg/L			< 0.05	< 0.05	< 0.05	< 0.05	< 0.26	< 0.05
Tetrachloroethene	µg/L	5	0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.26	< 0.05
Toluene	µg/L	800	160	< 0.04	0.04 J	< 0.04	0.04 J	< 0.25	< 0.04
Trichloroethene	µg/L	5	0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.3	< 0.05
Vinyl chloride	µg/L	0.2	0.02	0.94	< 0.019	1.2	<i>0.057 J</i>	< 0.17	< 0.019

Notes:

1. µg/l = micrograms per liter (ppb).
2. SU = Standard Units
3. µmhos/cm = microSiemens per centimeter
4. Deg C = Degrees Celcius
5. mV = millivolts
6. mg/L = milligrams per liter (ppm).
7. Metals analyzed using EPA Method 6010.
8. NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard.
9. NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit.
10. **BOLD** = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC ES.
11. *Italics* = Exceedence (or potential exceedence if J- or B-flagged) of the NR 140, WAC PAL.
12. ORP - Oxidation Reduction Potential

Created by: P. Popp
Checked by: M. Stollenwerk

Table 6
Detected Parameters in Leachate
FF/NN Landfill
Ripon, Wisconsin
Second Quarter 2019

Parameter	Units	LC-1 5/21/2019 286290	LC-2 5/21/2019 286318	LC-3 5/21/2019 286317
Sulfate, total	mg/L	1.7 J	2.7	640
Manganese, total	µg/L	26200 MY	1880	1680
1,1,2,2-Tetrachloroethane	µg/L	30 JTj	< 7 Tj	< 7 Tj
1,2,4-Trimethylbenzene	µg/L	110 Tj	85 Tj	5.8 JTj
1,3,5-Trimethylbenzene	µg/L	44 Tj	19 Tj	5 JTj
1,4-Dichlorobenzene	µg/L	< 12 Tj	23 Tj	< 6 Tj
2-Butanone	µg/L	< 80 Tj	< 40 Tj	280 Tj
Acetone	µg/L	< 180 j	94 Jju	1800 j
Bromomethane	µg/L	< 14 Tj	< 7 Tj	8.9 JBTj
cis-1,2-Dichloroethene	µg/L	< 6 Tj	< 3 Tj	170 Tj
Ethylbenzene	µg/L	29 Tj	8.5 JTj	69 Tj
Isopropylbenzene	µg/L	11 JTj	13 JTj	< 4 Tj
Naphthalene	µg/L	100 Tj	16 JTj	< 7 Tj
n-Propylbenzene	µg/L	< 10 Tj	10 JTj	< 5 Tj
p-Isopropyltoluene	µg/L	41 Tj	9.8 JTj	< 5 Tj
sec-Butylbenzene	µg/L	11 JTj	< 4 Tj	< 4 Tj
Tetrahydrofuran	µg/L	130 JTj	110 Tj	82 JTj
Toluene	µg/L	< 6 Tj	3.2 JTj	260 Tj
Trichloroethene	µg/L	< 6 Tj	< 3 Tj	14 Tj
Xylene, M + P	µg/L	200 Tj	430 Tj	310 Tj
Xylene, O	µg/L	8.5 JTj	< 4 Tj	78 Tj

Notes:

1. µg/l = micrograms per liter (ppb).
2. mg/L = milligrams per liter (ppm).
3. J = Reported concentration is estimated, between the Limit of Detection (LOD) and the Limit Of Quantitation (LOQ).
4. j = Estimated Result, As Qualified By Data Validation
5. M = Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
6. Y = Replicate / Duplicate precision outside acceptance limits.
7. T = Sample received with improper preservation or temperature.

Table 7
Landfill Gas Field Parameter Monitoring Results
FF/NN Landfill
Ripon, Wisconsin
First and Second Quarter 2019

Monitoring Point	Time	Date	CH ₄	CO ₂	O ₂	N	Comments
			(%)	(%)	(%)	(%)	
Background*	13:10	1/3/2019	0.0	0.0	20.9	--	
	9:53	2/7/2019	0.0	0.0	20.9	--	
	13:24	5/10/2019	0.0	0.0	0.0	--	Oxygen data recorded on field sheet is questionable based on typical readings.
	--	6/13/2019	0.0	0.0	0.0	--	No time recorded and oxygen data recorded on field sheet is questionable based on typical readings.
	--	6/25/2019	0.0	0.0	20.9	--	No time recorded
LC-1	13:17	1/3/2019	17.0	11.4	12.0	59.6	
	9:58	2/7/2019	31.0	16.0	7.0	46.0	
	13:32	5/10/2019	9.5	6.0	15.4	69.1	
	--	6/13/2019	12.5	7.0	15.8	64.7	No time recorded
	--	6/25/2019	7.0	4.4	17.3	71.3	No time recorded
LC-2	13:24	1/3/2019	29.5	19.0	8.1	43.4	
	10:12	2/7/2019	39.4	21.6	4.6	34.4	
	13:32	5/10/2019	9.5	7.6	14.3	68.6	
	--	6/13/2019	16.5	9.2	14.0	60.3	No time recorded
	--	6/25/2019	16.0	9.4	13.5	61.1	No time recorded
LC-3	13:22	1/3/2019	29.5	24.0	3.9	42.6	
	10:10	2/7/2019	40.5	25.8	2.3	31.4	
	13:35	5/10/2019	37.0	28.2	2.2	32.6	
	--	6/13/2019	46.0	30.6	1.8	21.6	No time recorded
	--	6/25/2019	45.0	30.2	1.8	23.0	No time recorded
GV-6	13:19	1/3/2019	26.5	22.4	0.5	50.6	
	10:07	2/7/2019	40.0	22.0	0.0	38.0	
	13:33	5/10/2019	24.5	20.4	0.9	54.2	
	--	6/13/2019	36.5	22.4	3.6	37.5	No time recorded
	--	6/25/2019	23.5	18.4	4.7	53.4	No time recorded
GP-1*	13:12	1/3/2019	0.0	0.0	20.9	79.1	First Reading
	14:12	1/3/2019	0.0	0.0	20.9	79.1	Second Reading
	9:54	2/7/2019	0.0	0.2	20.9	78.9	First Reading
	10:57	2/7/2019	0.0	0.0	20.9	79.1	Second Reading
	13:26	5/10/2019	0.0	0.0	20.9	79.1	First Reading
	14:26	5/10/2019	0.0	0.0	20.9	79.1	Second Reading
	--	6/13/2019	0.0	0.0	20.9	79.1	First Reading
	7:38	6/13/2019	0.0	1.2	19.2	79.6	No time recorded - second reading noted
	7:45	6/25/2019	0.0	1.6	17.6	80.8	First Reading
8:45	6/25/2019	0.0	0.0	20.9	79.1	Second Reading	
Exhaust*	13:14	1/3/2019	89	3.6	17.9	--	
	9:55	2/7/2019	7.5	4.8	17.1	--	
	13:28	5/10/2019	47	2.2	18.7	--	
	--	6/13/2019	92	3.2	18.6	--	
	--	6/25/2019	79	3	18.4	--	

Notes:

- * = Methane concentration noted in percent lower explosive limit
- = Data not recorded
- LEL = Lower Explosive Limit
- CH₄ = Methane
- CO₂ = Carbon Dioxide
- O₂ = Oxygen
- N = Nitrogen
- % = Percent

Table 8
Detected Parameters in Vapor
FF/NN Landfill
Ripon, Wisconsin
Second Quarter 2019

Parameter	Units	GP-03	GV-06	LC-1	LC-2	LC-3
		5/20/2019 P1902998-005	5/20/2019 P1902998-004	5/20/2019 P1902998-001	5/20/2019 P1902998-002	5/20/2019 P1902998-003
1,1-Dichloroethane	ppbV	< 0.090	2.1	< 0.087	1.5	1.3
1,1-Dichloroethene	ppbV	< 0.087	< 0.078	< 0.084	< 0.082	1.2
1,3-Butadiene	ppbV	< 0.19	1.2	< 0.18	< 0.17	1.0
2-Butanone	ppbV	< 0.17	14	16	11	7.4
Acetone	ppbV	< 2.4	13	22	26	21
Acrolein	ppbV	< 0.31	3.8	< 0.29	< 0.29	< 0.29
alpha-Pinene	ppbV	< 0.069	0.86	< 0.066	0.56	0.43
Benzene	ppbV	< 0.11	1.5	2.1	12	6.9
Carbon disulfide	ppbV	< 0.24	< 0.22	6.6	10	5.1
Chlorobenzene	ppbV	< 0.072	< 0.065	< 0.069	1.7	< 0.067
Chloroethane	ppbV	< 0.12	16	3.8	12	2.4
Chloromethane	ppbV	< 0.19	< 0.17	< 0.19	< 0.18	1.1
cis-1,2-Dichloroethene	ppbV	< 0.088	< 0.079	4.4	0.90	120 D
Cyclohexane	ppbV	< 0.20	46	13	51	28
Dichlorodifluoromethane	ppbV	0.54	36	10	33	98 D
Dichlorotetrafluoroethane	ppbV	< 0.056	120 D	11	67 D	32
Ethanol Gas	ppbV	36	13	16	< 0.86	< 0.86
Ethyl acetate	ppbV	< 0.36	< 0.33	2.0	< 0.34	< 0.34
Ethylbenzene	ppbV	< 0.081	1.1	< 0.078	1.6	5.8
Fluorotrichloromethane	ppbV	< 0.067	1.9	< 0.065	1.7	8.5
Heptane	ppbV	< 0.097	11	4.4	47	13
Methyl-tert-butyl-ether	ppbV	< 0.082	0.93	< 0.079	< 0.076	0.82
Methylene chloride	ppbV	< 0.20	< 0.18	< 0.19	< 0.19	2.7
N-Hexane	ppbV	< 0.15	39	25	100	38
n-Nonane	ppbV	< 0.079	0.63	< 0.076	1.1	1.1
n-Octane	ppbV	2.0	3.1	0.82	9.7	2.8
Propylene	ppbV	12	210	160	160	160
Tetrachloroethene	ppbV	< 0.048	< 0.043	< 0.046	< 0.045	0.46
Tetrahydrofuran	ppbV	< 0.11	12	32	24	20
Toluene	ppbV	< 0.081	0.81	6.0	3.2	160 D
trans-1,2-dichloroethene	ppbV	< 0.087	< 0.078	< 0.084	< 0.082	2.0
Trichloroethene	ppbV	< 0.063	< 0.056	< 0.060	< 0.059	8.2
Vinyl chloride	ppbV	< 0.10	< 0.094	2.0	< 0.098	74
Xylene, M + P	ppbV	< 0.15	< 0.14	< 0.15	9.3	14
Xylene, O	ppbV	< 0.083	< 0.074	< 0.080	< 0.078	2.0

Notes:

1. ppbV = parts per billion by volume.
2. D = Reported result is from a dilution.

**Figure 1
Site Location Map**

**Figure 2
Site Layout Map**

**Figure 3
Q1 2019 – Groundwater Elevations Layer 3 Wells**

**Figure 4
Q1 2019 – Groundwater Elevations Layer 4 Wells**

**Figure 5
Q2 2019 – Groundwater Elevations Layer 1 Wells**

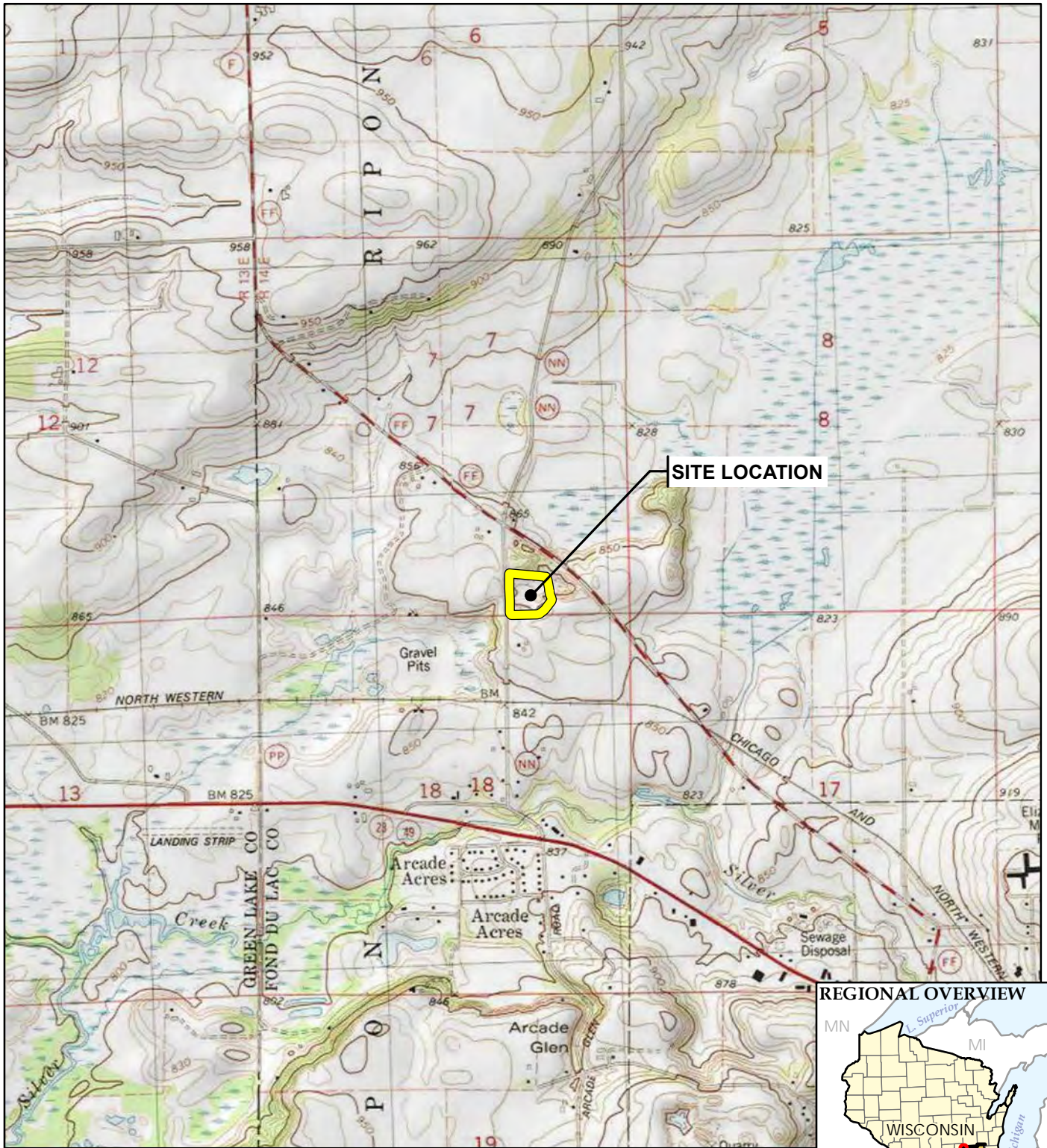
**Figure 6
Q2 2019 – Groundwater Elevations Layer 2 Wells**

**Figure 7
Q2 2019 – Groundwater Elevations Layer 3 Wells**

**Figure 8
Q2 2019 – Groundwater Elevations Layer 4 Wells**

**Figure 9
Q1 2019 – Vinyl Chloride Plume Extent, Layer 3**

**Figure 10
Q2 2019 – Vinyl Chloride Plume Extent, Layer 3**



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.



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TRC - GIS

PROJECT: **FF/NN LANDFILL NPL SITE
RIPON, WI
FIRST AND SECOND QUARTER 2019 REPORTING**

TITLE: **SITE LOCATION MAP**

DRAWN BY:	A. ADAIR
CHECKED BY:	M. STOLLENWERK
APPROVED BY:	J. WEDEKIND
DATE:	AUGUST 2019
PROJ. NO.:	327275
FILE:	Fig1_327275_001_SLM.mxd

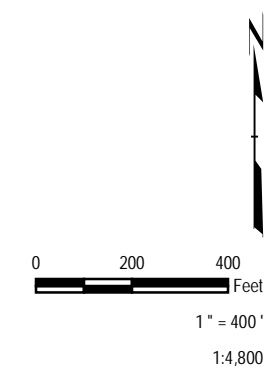
FIGURE 1



- LEGEND**
- GAS PROBE
 - GAS VENT
 - LEACHATE HEAD WELL
 - MONITORING WELL, PIEZOMETER LOCATION
 - PRIVATE WELL USED FOR POTABLE PURPOSES
 - PRIVATE WELL NOT USED FOR POTABLE PURPOSES
 - RIPON FF/NN LANDFILL SITE

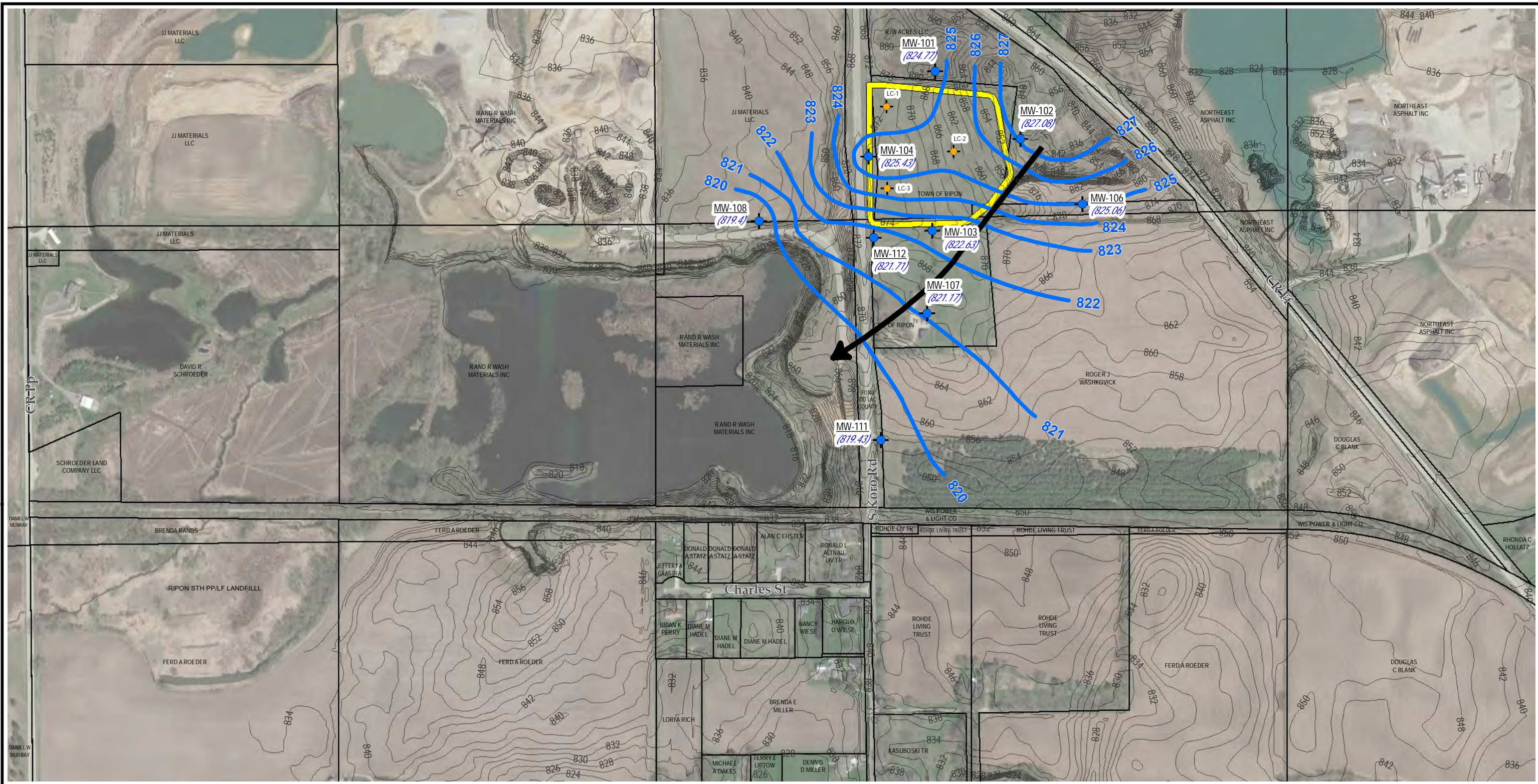
NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO., (4/21/2017).



PROJECT:		FF/NN LANDFILL NPL SITE RIPON, WI FIRST AND SECOND QUARTER 2019 REPORTING	
TITLE:		SITE LAYOUT MAP	
DRAWN BY:	A. ADAIR	PROJ. NO.:	327275
CHECKED BY:	M. STOLLENWERK	FIGURE 2	
APPROVED BY:	J. WEDEKIND		
DATE:	AUGUST 2019	FILE NO.: Fig2_327275_002_SLP.mxd	

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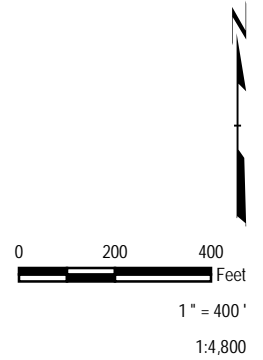


LEGEND

- MW-112 (821.71) MONITORING WELL, PIEZOMETER LOCATION WITH GROUNDWATER ELEVATION
- LEACHATE HEAD WELL
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 2')
- TAX PARCEL
- RIPON FF/NN LANDFILL SITE

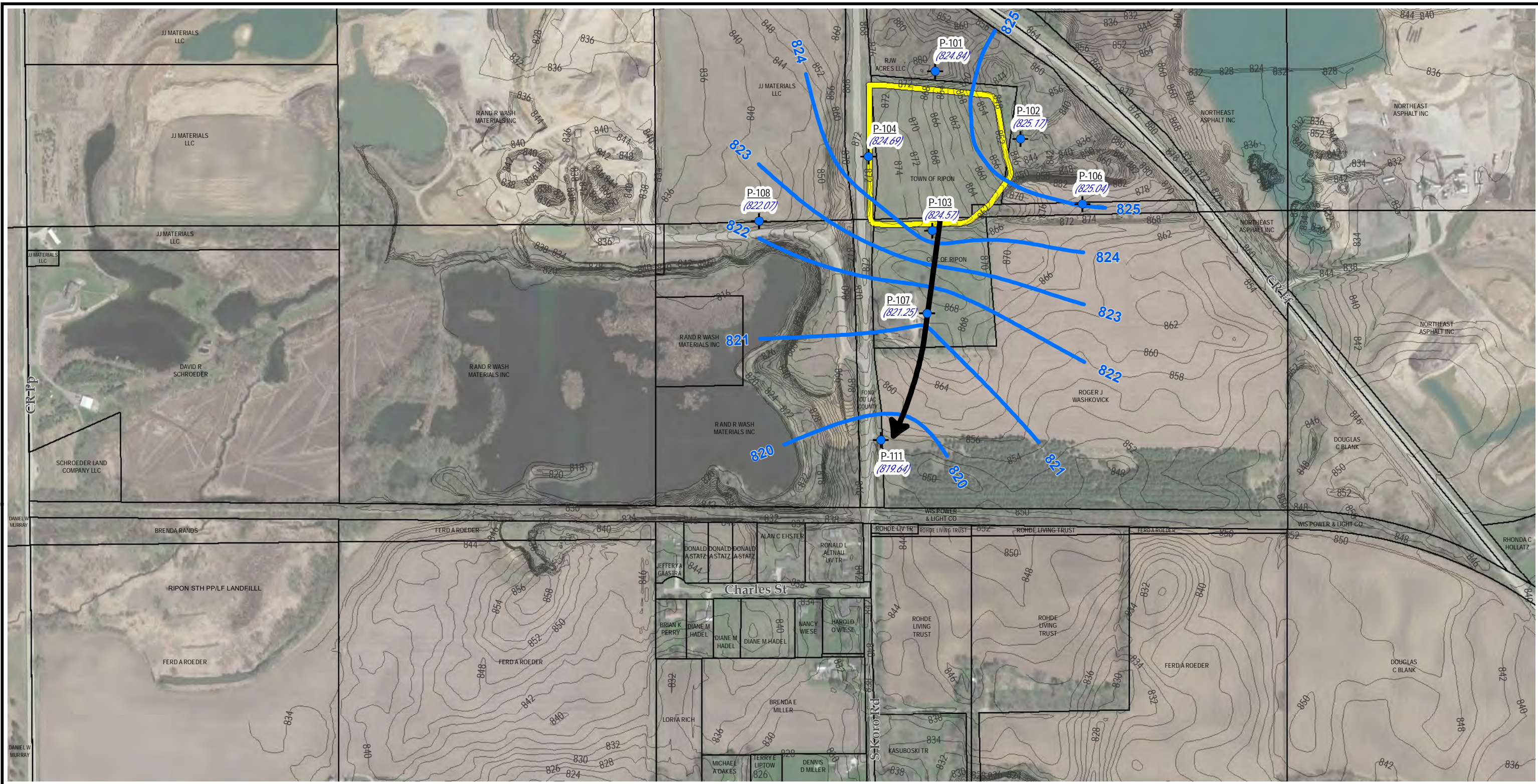
NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO., (4/21/2017).










PROJECT:		FF/NN LANDFILL NPL SITE RIPON, WI FIRST AND SECOND QUARTER 2019 REPORTING	
TITLE:		GROUNDWATER ELEVATION MAP QUARTER 2 LAYER 1 WELLS MAY 20, 2019	
DRAWN BY:	A. ADAIR	PROJ. NO.:	327275
CHECKED BY:	M. STOLLENWERK	FIGURE 3	
APPROVED BY:	J. WEDEKIND		
DATE:	AUGUST 2019	FILE NO.: Fig3_327275_Q2_Layer1.mxd	

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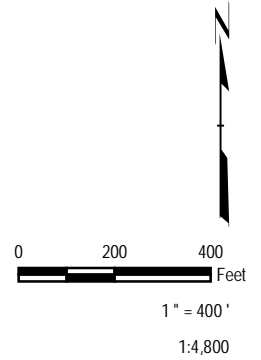



LEGEND

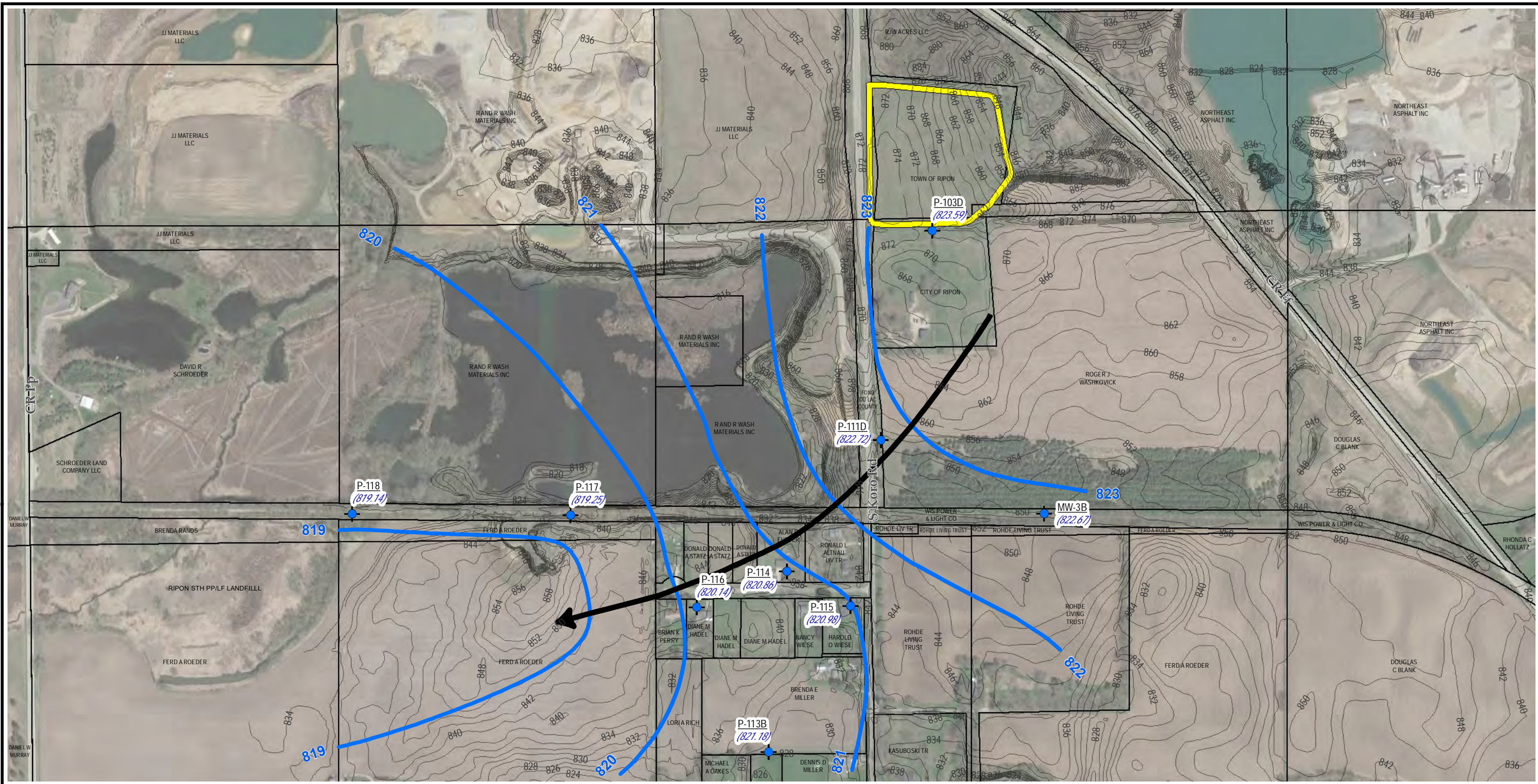
-  MW-112 (821.71) MONITORING WELL, PIEZOMETER LOCATION WITH GROUNDWATER ELEVATION
-  LEACHATE HEAD WELL
-  GROUNDWATER FLOW DIRECTION
-  GROUNDWATER ELEVATION CONTOUR
-  TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 2')
-  TAX PARCEL
-  RIPON FF/NN LANDFILL SITE

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO., (4/21/2017).



PROJECT:		FF/NN LANDFILL NPL SITE RIPON, WI FIRST AND SECOND QUARTER 2019 REPORTING	
TITLE:		GROUNDWATER ELEVATION MAP QUARTER 2 LAYER 2 WELLS MAY 20, 2019	
DRAWN BY:	A. ADAIR	PROJ. NO.:	327275
CHECKED BY:	M. STOLLENWERK	FIGURE 4	
APPROVED BY:	J. WEDEKIND		
DATE:	AUGUST 2019		
		150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO.:		Fig4_327275_Q2_Layer2.mxd	

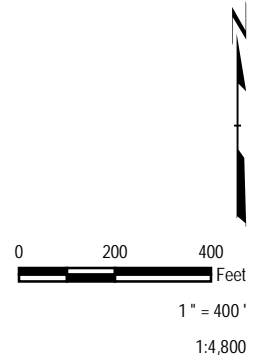


LEGEND

- MW-112 (821.71) MONITORING WELL, PIEZOMETER LOCATION WITH GROUNDWATER ELEVATION
- LEACHATE HEAD WELL
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 2')
- TAX PARCEL
- RIPON FF/NN LANDFILL SITE

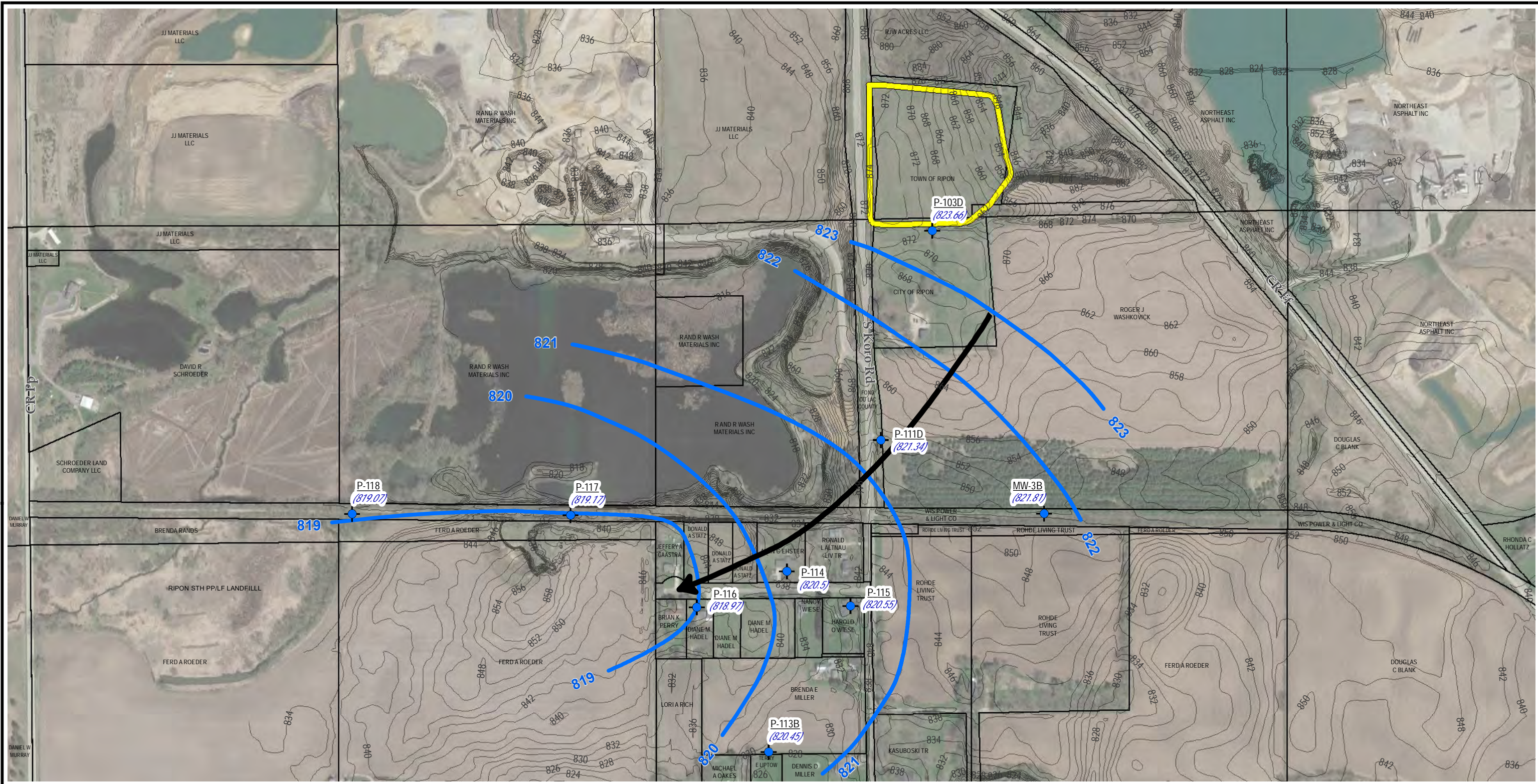
NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO., (4/21/2017).









PROJECT:		FF/NN LANDFILL NPL SITE RIPON, WI FIRST AND SECOND QUARTER 2019 REPORTING	
TITLE:		GROUNDWATER ELEVATION MAP QUARTER 1 LAYER 3 WELLS FEBRUARY 5, 2019	
DRAWN BY:	A. ADAIR	PROJ. NO.:	327275
CHECKED BY:	M. STOLLENWERK	FIGURE 5	
APPROVED BY:	J. WEDEKIND		
DATE:	AUGUST 2019	FILE NO.: Fig5_327275_01_Layer3.mxd	

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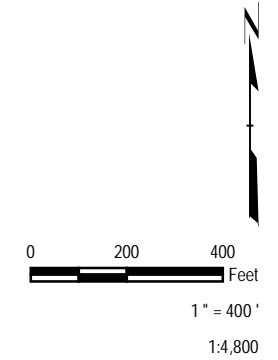


LEGEND

-  **MW-112 (821.71)** MONITORING WELL, PIEZOMETER LOCATION WITH GROUNDWATER ELEVATION
-  GROUNDWATER FLOW DIRECTION
-  GROUNDWATER ELEVATION CONTOUR
-  TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 2')
-  TAX PARCEL
-  RIPON FF/NN LANDFILL SITE

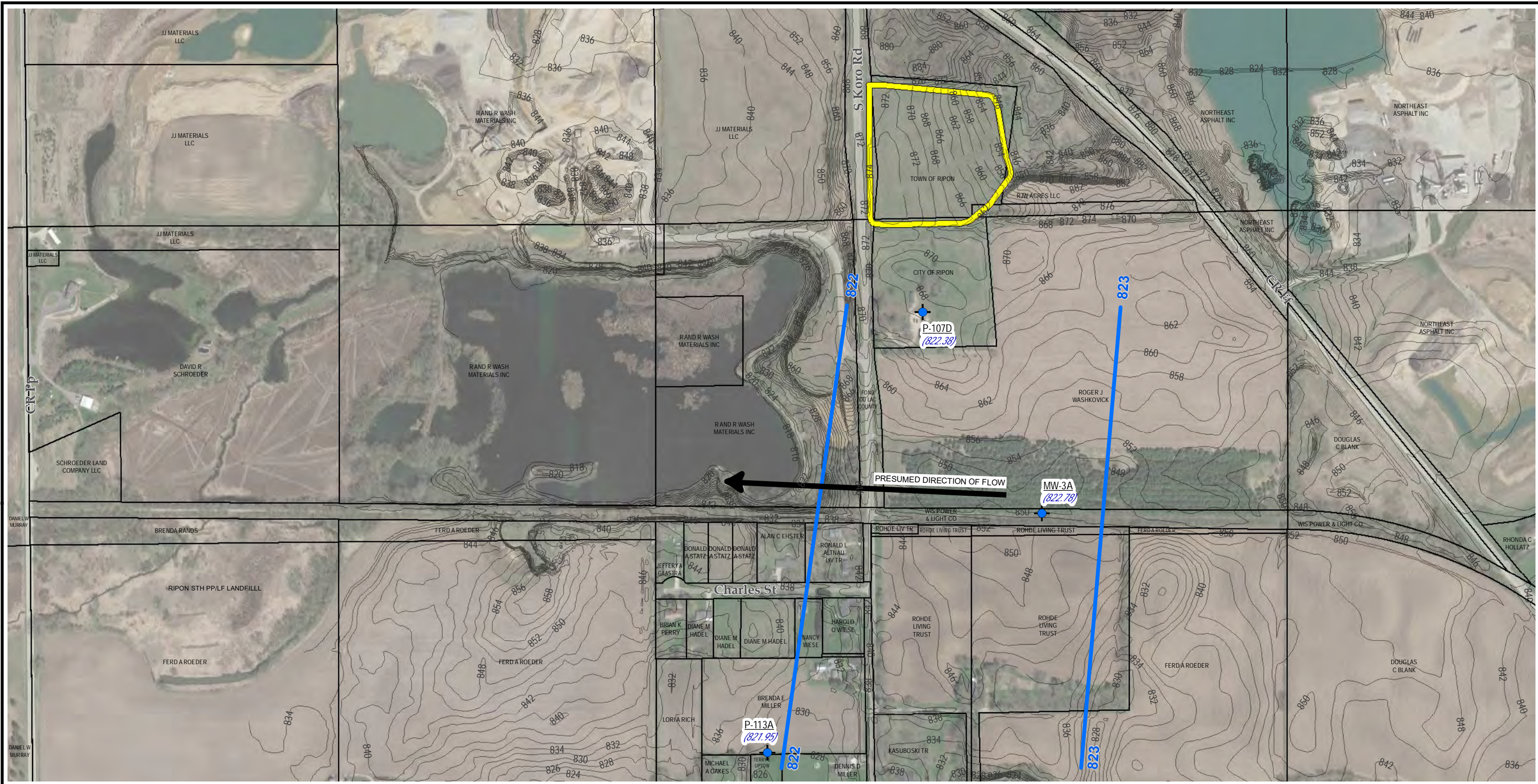
NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO., (4/21/2017).



PROJECT:		FF/NN LANDFILL NPL SITE RIPON, WI FIRST AND SECOND QUARTER 2019 REPORTING	
TITLE:		GROUNDWATER ELEVATION MAP QUARTER 2 LAYER 3 WELLS MAY 20, 2019	
DRAWN BY:	A. ADAIR	PROJ. NO.:	327275
CHECKED BY:	M. STOLLENWERK	FIGURE 6	
APPROVED BY:	J. WEDEKIND		
DATE:	AUGUST 2019	FILE NO.: Fig6_327275_Q2_Layer3.mxd	

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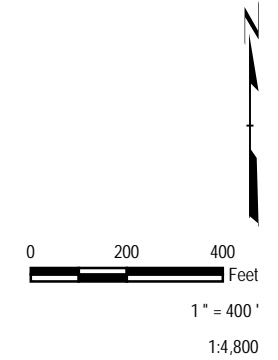


LEGEND

- MW-112 (821.71) MONITORING WELL, PIEZOMETER LOCATION WITH GROUNDWATER ELEVATION
- PRESUMED GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 2')
- TAX PARCEL
- RIPON FF/NN LANDFILL SITE

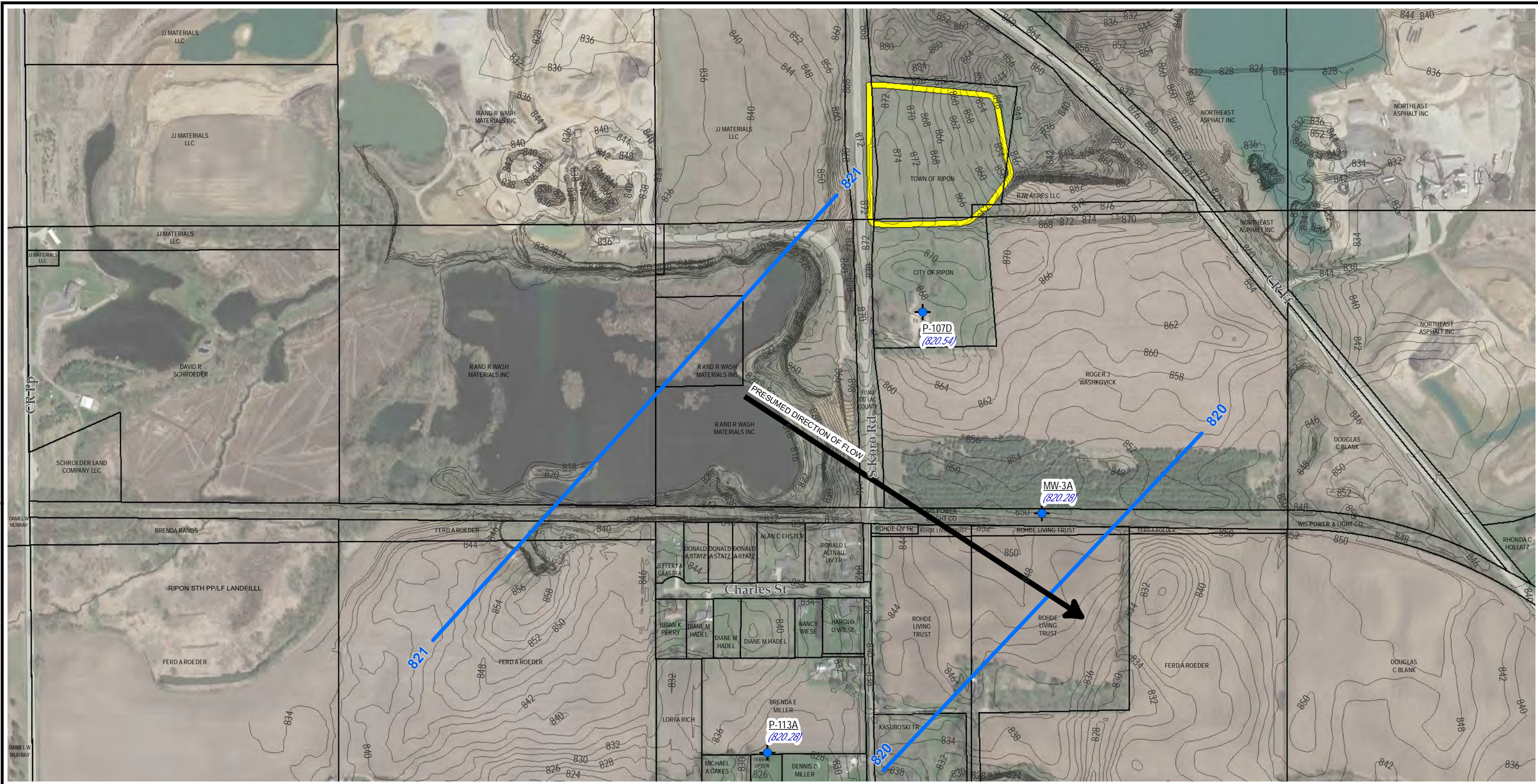
NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO., (4/21/2017).









PROJECT:		FF/NN LANDFILL NPL SITE RIPON, WI FIRST AND SECOND QUARTER 2019 REPORTING	
TITLE:		GROUNDWATER ELEVATION MAP QUARTER 1 LAYER 4 WELLS FEBRUARY 5, 2019	
DRAWN BY:	A. ADAIR	PROJ. NO.:	327275
CHECKED BY:	M. STOLLENWERK	FIGURE 7	
APPROVED BY:	J. WEDEKIND		
DATE:	AUGUST 2019	FILE NO.: Fig7_327275_01_Layer4.mxd	

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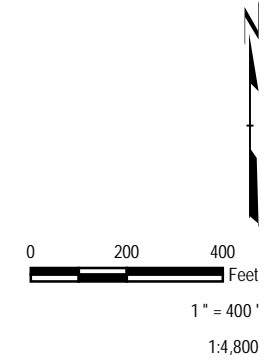



LEGEND

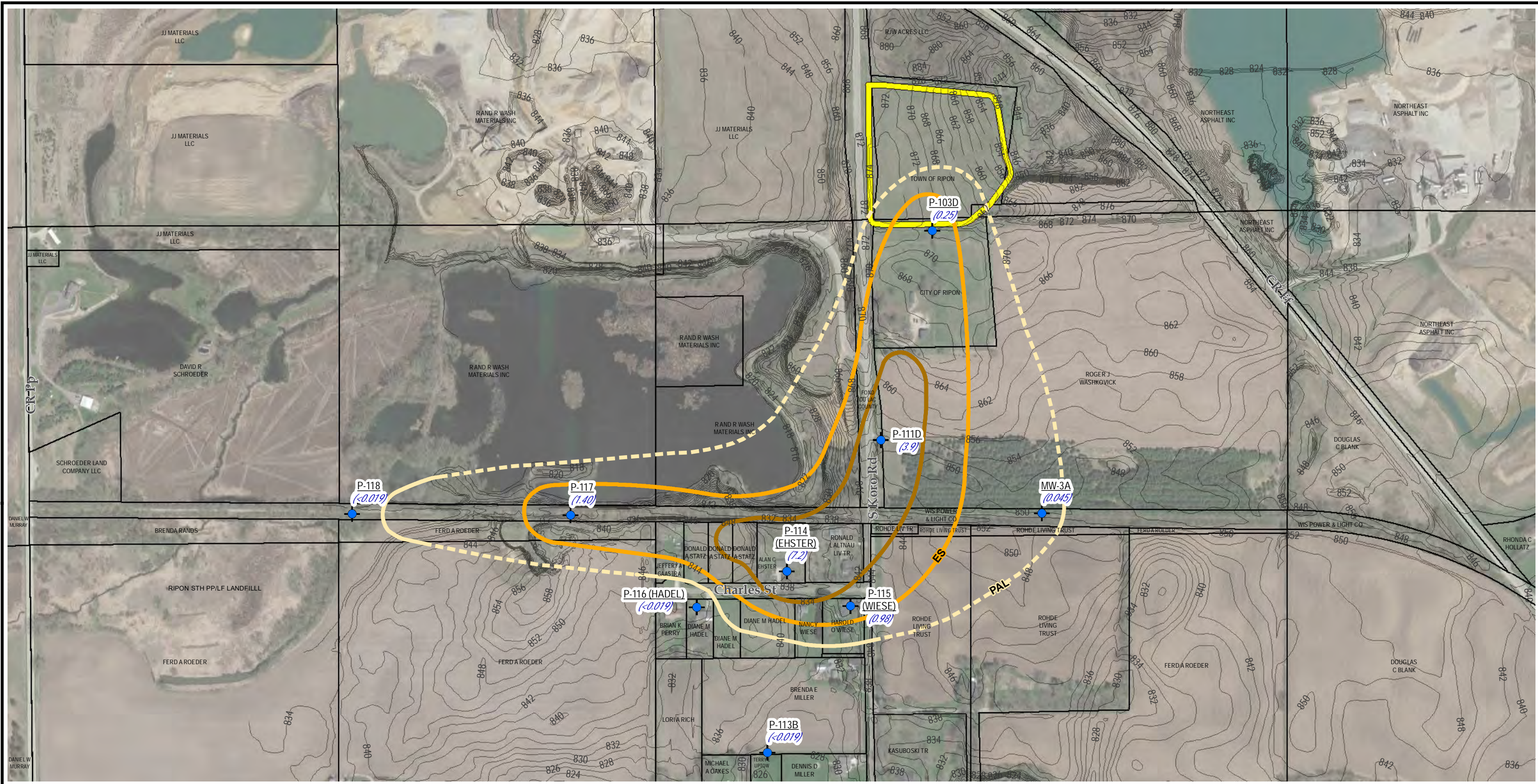
-  MW-112 (821.71) MONITORING WELL, PIEZOMETER LOCATION WITH GROUNDWATER ELEVATION
-  PRESUMED GROUNDWATER FLOW DIRECTION
-  GROUNDWATER ELEVATION CONTOUR
-  TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 2')
-  TAX PARCEL
-  RIPON FF/NN LANDFILL SITE

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO., (4/21/2017).



PROJECT:	
FF/NN LANDFILL NPL SITE RIPON, WI FIRST AND SECOND QUARTER 2019 REPORTING	
TITLE:	
GROUNDWATER ELEVATION MAP QUARTER 2 LAYER 4 WELLS MAY 20, 2019	
DRAWN BY: A. ADAIR	PROJ. NO.: 327275
CHECKED BY: M. STOLLENWERK	
APPROVED BY: J. WEDEKIND	FIGURE 8
DATE: AUGUST 2019	
	
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FILE NO.: Fig8_327275_Q2_Layer4.mxd	

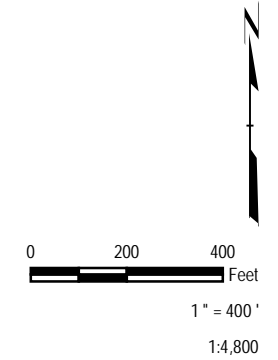


LEGEND

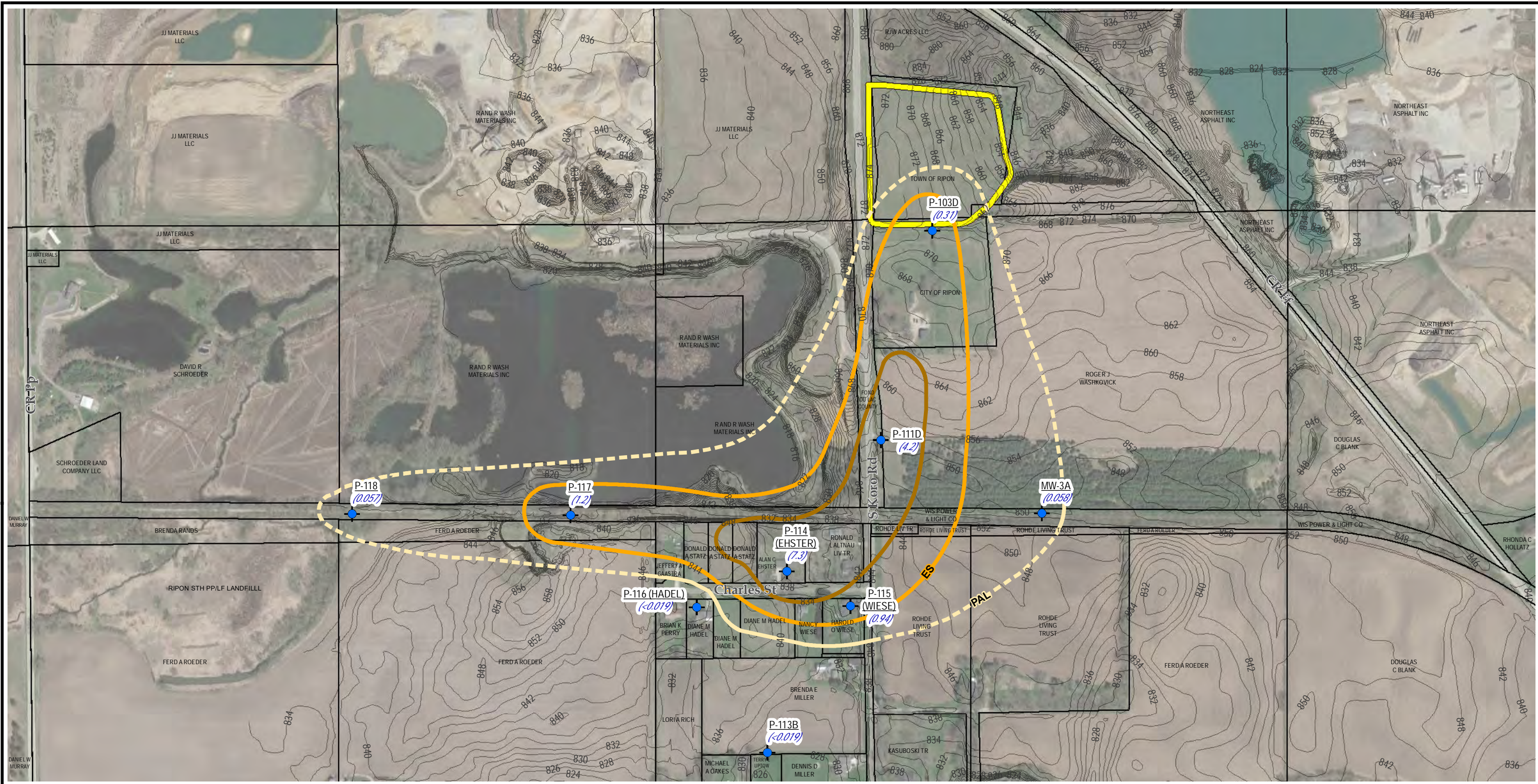
- P-117 (1.2) MONITORING WELL, PIEZOMETER LOCATION WITH VINYL CHLORIDE LEVEL
- PREVENTATIVE ACTION LEVEL VINYL CHLORIDE ISOCONTOUR 0.02 UG/L (DASHED WHERE INFERRED)
- ENFORCEMENT STANDARD VINYL CHLORIDE ISOCONTOUR 0.2 UG/L
- VINYL CHLORIDE ISOCONTOUR 2.0 UG/L
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 2')
- TAX PARCEL
- RIPON FF/NN LANDFILL SITE

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO., (4/21/2017).



PROJECT:		FF/NN LANDFILL NPL SITE RIPON, WI FIRST AND SECOND QUARTER 2019 REPORTING	
TITLE:		VINYL CHLORIDE ISOCONCENTRATION MAP QUARTER 1 LAYER 3 WELLS FEBRUARY 2019	
DRAWN BY:	A. ADAIR	PROJ. NO.:	327275
CHECKED BY:	M. STOLLENWERK	FIGURE 9	
APPROVED BY:	J. WEDEKIND		
DATE:	AUGUST 2019	FILE NO.:	
		150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO.:		Fig9_327275_Q1_Layer3_Plume.mxd	

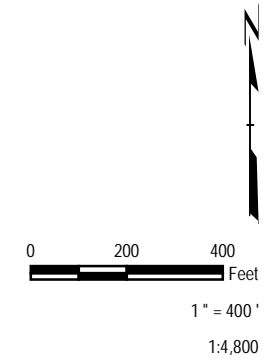


LEGEND

- P-117 (1.2) MONITORING WELL, PIEZOMETER LOCATION WITH VINYL CHLORIDE LEVEL
- PREVENTATIVE ACTION LEVEL VINYL CHLORIDE ISOCONTOUR 0.02 UG/L (DASHED WHERE INFERRED)
- ENFORCEMENT STANDARD VINYL CHLORIDE ISOCONTOUR 0.2 UG/L
- VINYL CHLORIDE ISOCONTOUR 2.0 UG/L
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 2')
- TAX PARCEL
- RIPON FF/NN LANDFILL SITE

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO., (4/21/2017).



PROJECT:	
FF/NN LANDFILL NPL SITE RIPON, WI FIRST AND SECOND QUARTER 2019 REPORTING	
TITLE:	
VINYL CHLORIDE ISOCONCENTRATION MAP QUARTER 2 LAYER 3 WELLS MAY 2019	
DRAWN BY: A. ADAIR	PROJ. NO.: 327275
CHECKED BY: M. STOLLENWERK	
APPROVED BY: J. WEDEKIND	FIGURE 10
DATE: AUGUST 2019	
150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO.: Fig10_327275_02_Layer3_Plume.mxd	

Appendix A: Site Inspection Reports

TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION				INSTRUMENTS					
PROJECT	FF/NN Landfill			Temp. & pH	MP-20 Flow Cell				
PROJECT NO.	117-222066.01			Conductivity	MP-20 Flow Cell				
LOCATION	Ripon, WI			ORP	MP-20 Flow Cell				
PERSONNEL	Ashley A. Wagner / Luke A. Rykoskey			DO	MP-20 Flow Cell				
MONITOR WELL ID	MW-3A			MW-3B			P-113A		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	02/05/2019			02/05/2019			02/05/2019		
STATIC WATER LEVEL (feet)*	27.82			28.22			11.21		
WELL DEPTH (feet)*	280.1			185.72			325.31		
PUMP INLET DEPTH (feet)*	67.5			54.5			73.5		
START PURGE TIME (Military)	11:45			11:45			13:25		
END PURGE TIME (Military)	12:00			12:05			13:45		
PURGE VOLUME (gallons)	2.0			5.0			0.25		
SAMPLE TIME (Military)	12:05			12:10			13:50		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	0:00	1:00	2:00	0:00	1:00	2:00	2:00	4:00	6:00
TEMPERATURE (° C)	8.34	8.35	8.34	8.58	8.61	8.70	4.84	5.01	5.09
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.519	0.515	0.518	0.602	0.598	0.600	0.516	0.513	0.509
DISSOLVED OXYGEN (ppm)	2.19	2.18	2.14	3.38	0.43	0.30	4.88	4.02	3.59
pH	7.71	7.71	7.69	7.69	7.70	7.70	8.02	8.00	7.99
DISSOLVED OXYGEN (% Sat.)	18.7	18.5	18.2	29.0	3.8	2.6	38.2	31.6	28.3
ORP (mV)	-94	-88	-82	-93	-101	-105	-79	-87	-95
COLOR	Clear			Clear			Clear		
ODOR	Rotten Eggs			Weak Rotten Eggs			None		
CLARITY	Clear			Clear			Clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260 Low Level detection)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No		
Sample Blank (use water from well, zero)	0.00			0.00			0.00		
Iron +2 (mg/L) (Hach DR 900 test 255) using reagent powder pillow (wait 3 min)	0.04			0.95			0.16		
DI water with reagent powder pillow									
June results:	0.10			0.86			0.08		
NAME OF LABORATORY	CT Laboratories			CT Laboratories			CT Laboratories		
DATE SENT TO LAB	02/06/2019			02/06/2019			02/06/2019		
SAMPLER=S NAME	Ashley A. Wagner			Ashley A. Wagner			Ashley A. Wagner		

*Measured from top of well casing.

TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION				INSTRUMENTS					
PROJECT	FF/NN Landfill			Temp. & pH	MP-20 Flow Cell				
PROJECT NO.	117-222066.01			Conductivity	MP-20 Flow Cell				
LOCATION	Ripon, WI			ORP	MP-20 Flow Cell				
PERSONNEL	Ashley A. Wagner / Luke A. Rykoskey			DO	MP-20 Flow Cell				
MONITOR WELL ID	P-113B			P-103D			P-107D		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	02/05/2019			02/05/2019			02/05/2019		
STATIC WATER LEVEL (feet)*	11.98			49.32			49.52		
WELL DEPTH (feet)*	198.9			192.66			327.95		
PUMP INLET DEPTH (feet)*	48.5			87.5			76.5		
START PURGE TIME (Military)	13:25			10:15			10:50		
END PURGE TIME (Military)	13:55			10:25			11:00		
PURGE VOLUME (gallons)	3.0			1.5			2.5		
SAMPLE TIME (Military)	14:00			10:30			11:05		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	0:00	1:00	2:00	0:00	1:00	2:00	0:00	1:00	2:00
TEMPERATURE (° C)	8.64	9.00	9.21	8.99	8.97	8.95	8.81	8.81	8.81
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.610	0.619	0.618	0.718	0.717	0.713	0.564	0.542	0.543
DISSOLVED OXYGEN (ppm)	2.70	2.29	1.66	0.44	0.42	0.40	2.27	1.55	1.33
pH	7.84	7.83	7.81	7.05	7.08	7.12	7.68	7.58	7.55
DISSOLVED OXYGEN (% Sat.)	23.2	19.8	14.5	3.8	3.6	3.5	20.9	13.4	11.5
ORP (mV)	-102	-104	-105	-72	-76	-78	-41	-39	-37
COLOR	Clear			Clear			Clear		
ODOR	None			None			None		
CLARITY	Clear			Clear			Clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260 Low Level detection)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No		
Sample Blank (use water from well, zero)	0.00			0.00			0.00		
Iron +2 (mg/L) (Hach DR 900 test 255) using reagent powder pillow (wait 3 min)	1.03			1.94			0.06		
DI water with reagent powder pillow									
June results:	0.69			2.67			NM		
NAME OF LABORATORY	CT Laboratories			CT Laboratories			CT Laboratories		
DATE SENT TO LAB	02/06/2019			02/06/2019			02/06/2019		
SAMPLER=S NAME	Ashley A. Wagner			Ashley A. Wagner			Ashley A. Wagner		

*Measured from top of well casing.

TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION				INSTRUMENTS					
PROJECT	FF/NN Landfill			Temp. & pH	MP-20 Flow Cell				
PROJECT NO.	117-222066.01			Conductivity	MP-20 Flow Cell				
LOCATION	Ripon, WI			ORP	MP-20 Flow Cell				
PERSONNEL	Ashley A. Wagner / Luke A. Rykoskey			DO	MP-20 Flow Cell				
MONITOR WELL ID	P-111D			P-117			P-118		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	02/05/2019			02/05/2019			02/05/2019		
STATIC WATER LEVEL (feet)*	32.84			14.71			7.60		
WELL DEPTH (feet)*	151.0			165.54			167.8		
PUMP INLET DEPTH (feet)*	151.0			163.0			165		
START PURGE TIME (Military)	11:15			12:30			12:55		
END PURGE TIME (Military)	11:25			12:40			13:05		
PURGE VOLUME (gallons)	2.0			2.5			2.0		
SAMPLE TIME (Military)	11:30			12:45			13:10		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	0:00	1:00	2:00	0:00	1:00	2:00	0:00	1:00	2:00
TEMPERATURE (° C)	8.99	9.00	8.93	9.35	9.22	9.05	9.13	9.13	9.04
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.810	0.815	0.817	0.691	0.694	0.697	0.542	0.540	0.541
DISSOLVED OXYGEN (ppm)	0.28	0.27	0.26	0.85	0.78	0.72	1.34	1.23	1.12
pH	7.63	7.64	7.64	7.65	7.64	7.62	7.83	7.83	7.80
DISSOLVED OXYGEN (% Sat.)	2.4	2.3	2.3	7.5	6.8	6.2	11.6	10.7	9.7
ORP (mV)	-107	-107	-107	-93	-92	-92	-85	-85	-86
COLOR	Clear			Clear			Clear		
ODOR	None			None			None		
CLARITY	Clear			Clear			Clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260 Low Level detection)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No		
Sample Blank (use water from well, zero)	0.00			0.00			0.00		
Iron +2 (mg/L) (Hach DR 900 test 255) using reagent powder pillow (wait 3 min)	1.38			1.22			0.31		
DI water with reagent powder pillow									
June results:	1.19			1.31			0.17		
NAME OF LABORATORY	CT Laboratories			CT Laboratories			CT Laboratories		
DATE SENT TO LAB	02/06/2019			02/06/2019			02/06/2019		
SAMPLER=S NAME	Ashley A. Wagner			Ashley A. Wagner			Ashley A. Wagner		

*Measured from top of well casing.



TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION				INSTRUMENTS					
PROJECT	FF/NN Landfill			Temp. & pH	MP-20 Flow Cell				
PROJECT NO.	117-222066.01			Conductivity	MP-20 Flow Cell				
LOCATION	Ripon, WI			ORP	MP-20 Flow Cell				
PERSONNEL	Ashley A. Wagner / Luke A. Rykoskey			DO	MP-20 Flow Cell				
MONITOR WELL ID	P-114/Dup			P-115			P-116		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	02/05/2019			02/05/2019			02/05/2019		
STATIC WATER LEVEL (feet)*	18.50			21.69			25.72		
WELL DEPTH (feet)*	181.72			179.57			163.19		
PUMP INLET DEPTH (feet)*	53.5			53.5			163		
START PURGE TIME (Military)	15:00			15:35			14:30		
END PURGE TIME (Military)	15:15			15:45			14:45		
PURGE VOLUME (gallons)	3.0			2.5			1.0		
SAMPLE TIME (Military)	15:20 / 15:25			15:50			14:50		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	0:00	1:00	2:00	0:00	1:00	2:00	0:00	2:00	4:00
TEMPERATURE (° C)	9.40	9.41	9.39	9.60	9.54	9.47	6.48	6.20	6.18
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.721	0.719	0.720	0.587	0.589	0.589	0.497	0.495	0.500
DISSOLVED OXYGEN (ppm)	0.17	0.17	0.17	0.42	0.37	0.32	0.75	0.64	0.62
pH	7.82	7.81	7.81	7.85	7.84	7.82	7.97	7.96	7.93
DISSOLVED OXYGEN (% Sat.)	1.5	1.5	1.5	3.7	3.2	2.8	6.1	5.2	5.0
ORP (mV)	-113	-113	-114	-115	-115	-115	-84	-84	-83
COLOR	Clear			Clear			Clear		
ODOR	None			None			None		
CLARITY	Clear			Clear			Clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260 Low Level detection)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No		
	TOOK DUP AT 15:25								
Sample Blank (use water from well, zero)	0.00			0.00			0.00		
Iron +2 (mg/L) (Hach DR 900 test 255) using reagent powder pillow (wait 3 min)	0.96			0.88			0.14		
DI water with reagent powder pillow									
June results:	0.1			1.02			0.56		
NAME OF LABORATORY	CT Laboratories			CT Laboratories			CT Laboratories		
DATE SENT TO LAB	02/06/2019			02/06/2019			02/06/2019		
SAMPLER=S NAME	Ashley A. Wagner			Ashley A. Wagner			Ashley A. Wagner		

*Measured from top of well casing.





PROJECT NAME:	FF/NN Ripon Landfill
PROJECT NUMBER:	327275.0001.0002
PROJECT MANAGER:	Marita Stollenwerk
SITE LOCATION:	Ripon , WI
DATES OF FIELDWORK:	5/ 20-22 /19
PURPOSE OF FIELDWORK:	Quarter Two Groundwater Sampling, and Gas Sampling
WORK PERFORMED BY:	J. Roelke

 5/23/19
SIGNED DATE

CHECKED BY DATE



CALIBRATION LOG

PROJECT NAME: FF/NN Ripon Landfill	MODEL: In-Situ	SAMPLER: J. Roelke
PROJECT NO.: 327275.0001.0002	SERIAL #: 653586	DATE: 5/21-22 /19

PH CALIBRATION CHECK

PH 7 (LOT NUMBER): FGS494	PH 4/10 (LOT NUMBER): 9GE142	TIME
7.0 7.02	4.0 4.0	7:17 5/21
7.0 7.27	4.0 4.25	19:00 5/21 (Post)
7.0 7.01	4.0 4.0	7:24 5/22
7.0 7.31	4.0 4.27	17:16 5/22 (Post)

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 9GE142	TEMPERATURE (°CELSIUS)	CORRECTED CONDUCTIVITY (umhos/cm)	TIME
4490 4456	14.8		7:22 5/21
" 4511.7	20.67		19:06 5/21 (Post)
" 4484	14.7		7:28 5/22
" 4524.2	21.2		17:19 5/22 (Post)

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	TIME
9.35	7:30 5/21
9.01	19:16 5/21
9.99	7:24 5/22
9.26	17:26 5/22

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (LOT #):	TIME
1	
1	
1	
1	

OXIDATION / REDUCTION POTENTIAL CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 19A100775	TEMPERATURE (°CELSIUS)	CORRECTED ORP (mV)	TIME
243 231.9	14.6		7:25 5/21
" 217.7	21.69		19:16 5/21 Post
" 227.1	14.6		7:30 5/22
" 212.9	22.45		17:22 5/22 Post

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED: *[Signature]* DATE: 5/22/19

CHECKED BY: _____ DATE: _____



WATER LEVEL DATA

PROJECT NAME: Ripon FF/NN Landfill			DATE: 5/20/19		
PROJECT NUMBER: 327275.0001.0000			AUTHOR: J. Roelke		
WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	WATER ELEVATION
MW-3A	1103	850.6	30.32	280.1	
MW-3B	1106	850.89	29.08	185.72	
P-113A	1004	833.16	12.88	325.31	
P-113B	1000	833.16	12.71	198.9	
P-103	1253	872.74	48.17	83.02	
P-103D	1250	872.91	49.25	192.66	
P-111D	1128	855.56	34.22	151.00	
P-107D	1155	871.9	51.36	327.95	
P114	1028	839.36	18.86	181.72	
P-115	1102	842.67	22.12	179.57	
P-116	1018	845.86	26.89	163.19	
P-117	1114	833.96	14.79	165.54	
P-118	1119	826.74	7.67	167.80	
MW-103	1256	872.3	49.67	53.69	
MW-112	1236	874.7	52.99	60.47	
MW-101	1337	884.73	59.96	64.5	
P-101	1335	885.39	60.55	96.49	
MW-102	1346	842.9	15.82	24	
P-102	1342	842.85	17.68	61.15	
MW-104	1325	875.15	49.77	54.9	
P-104	1322	875.48	50.71	92.8	
MW-106	1311	878.9	53.69	57.35	
P-106	1308	878.91	53.76	87.3	
MW-107	1204	871.69	50.52	55.29	
P-107	1159	871.33	50.08	87.13	
P-107D	1155	871.9	51.36	322.7	
MW-108	1231	845.08	25.68	30.28	
P-108	1230	845.48	23.41	62.48	
MW-111	1133	856.09	36.66	43.79	
P-111	1130	856.28	36.64	82.68	
P-111D	1128	855.56	34.22	148.46	
MW-112	1236	874.7	52.99	60.47	
P-113A	1004	833.16	12.88	325.31	
P-113B	1000	833.16	12.71	198.9	
P-114	1028	839.36	18.86	181.7	

P-115	1102	842.67	22.12	179.77	
P-116	1018	848.86	26.89	163.56	
P-117	1114	833.96	14.79	165.56	
P-118	1119	826.74	7.67	167.44	
MW-3A	1107	850.6	30.32	280.1	
MW-3B	1109	850.89		185.72	
Rohde		844.98		228	
LC-1	1753	876.15	33.14	27.7	?
LC-2	1844	866.05	33.59	27.91	?
LC-3	1818	877.34	11.73	26.14	?

5/21/19
5/21/19
5/21/19

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR
(E.G., 1.1 + 0.00 T/PVC).

[Signature] 5/23/19
SIGNED _____ DATE: _____

CHECKED _____ DATE: _____



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0002	BY: JAR DATE: 5/21/19	BY: DATE:

SAMPLE ID: MW-3A	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1422	DATE: 5/21/19	SAMPLE	TIME: 1443	DATE: 5/21/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP GRUNDFUS PUMP <input type="checkbox"/> BAILER BAILER (DISPOSABLE)	PH: 7.36	SU	CONDUCTIVITY: 569.20	umhos/cm	
DEPTH TO WATER: 3147 T/ PVC	ORP: -8.80	mv	DO: 0.22	mg/L	
DEPTH TO BOTTOM: 280.1 T/ PVC	TURBIDITY: NA	NTU			
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		TEMPERATURE: 9.61	°C OTHER:	
VOLUME REMOVED: 2.5 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: Clear	ODOR: Lt Septic			
COLOR: Clear	ODOR: Lt Septic	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
TURBIDITY: NA	FILTRATE COLOR:	FILTRATE ODOR:			
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1				
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS:				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1422	200	7.49	569.40	-13.00	0.39	NA	9.67	31.47	INITIAL
1428	200	7.42	569.70	-12.10	0.30	NA	9.63	32.24	
1433	200	7.40	569.7	-10.80	0.26	NA	9.61	32.24	
1438	200	7.39	570.0	-9.70	0.23	NA	9.61	32.24	
1443	200	7.36	569.20	-8.80	0.22	NA	9.61	32.24	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml Plastic		B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FedEx CTC Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CTLabs	SIGNATURE:	DATE SIGNED:



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0000 22	BY: JAR DATE: 5/21/19	BY: DATE:

SAMPLE ID: MW-3B	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1500	DATE: 5/21/19	SAMPLE	TIME: 1535	DATE: 5/21/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BLADDER PUMP (QED)			PH: 7.30 SU	CONDUCTIVITY: 717.30 umhos/cm	
<input type="checkbox"/> BAILER <input type="checkbox"/> BAILER (DISPOSABLE)			ORP: -60.70 mv	DO: 0.17 mg/L	
DEPTH TO WATER: 29.74 T/ PVC			TURBIDITY: NA NTU		
DEPTH TO BOTTOM: 185.72 T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 9.48 °C	OTHER:	
VOLUME REMOVED: 3 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: Clear	ODOR: NONE	
COLOR: clear	ODOR: Sulfur		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: NA			FILTRATE COLOR:	FILTRATE ODOR:	
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS:				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1500	200	8.81	452.0	-13.60	0.29	NA	9.51	29.74	INITIAL
1505	200	7.44	715.6	-59.60	0.19	NA	9.43	29.82	
1510	200	7.36	717.9	-60.90	0.18	NA	9.46	29.82	
1515	200	7.33	717.9	-61.00	0.17	NA	9.45	29.82	
1520	200	7.32	718.1	-61.04	0.17	NA	9.45	29.82	
3 rd 1525	200	7.31	718.10	-60.80	0.17	NA	9.47	29.82	
1530	200	7.31	717.60	-60.90	0.17	NA	9.47	29.82	
1535	200	7.30	717.30	-60.70	0.17	NA	9.48	29.82	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: Fed-Ex CTC Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CTLabs	SIGNATURE: <i>John Miller</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfil	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0002	BY: JAR DATE: 5/22/19	BY: DATE:

SAMPLE ID: MW-103	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER 0'
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input checked="" type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER NA	

PURGING	TIME: 1445	DATE: 5/22/19	SAMPLE	TIME: 1450	DATE: 5/22/19
PURGE METHOD: <input type="checkbox"/> PUMP BLADDER PUMP (QED)			PH: 7.21	SU	CONDUCTIVITY: 112.0 umhos/cm
<input checked="" type="checkbox"/> BAILER BAILER (DISPOSABLE)			ORP: -6.1	mv	DO: 6.17 mg/L
DEPTH TO WATER: 49.56' PVC			TURBIDITY: NA	NTU	
DEPTH TO BOTTOM: 51.0 T/ PVC			<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: 0.238 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 13.51	°C OTHER:	
VOLUME REMOVED: 1.0 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: Clear	ODOR: None	
COLOR: Clear	ODOR: None		FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR:	FILTRATE ODOR:	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FedEx CT Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CTLabs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfil	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0002	BY: JAR DATE: 5/22/19	BY: DATE:

SAMPLE ID: MW-104	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER 0'
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input checked="" type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER NA	

PURGING	TIME: 1643	DATE: 5/22/19	SAMPLE	TIME: 1655	DATE: 5/22/19
PURGE METHOD: <input type="checkbox"/> PUMP BLADDER PUMP (QED) <input checked="" type="checkbox"/> BAILER BAILER (DISPOSABLE)	PH: 6.96 SU	CONDUCTIVITY: 1095.4 umhos/cm	ORP: 36.2 mv	DO: 1.77 mg/L	
DEPTH TO WATER: 50.24 TI PVC	TURBIDITY: NA NTU				
DEPTH TO BOTTOM: 54.9 TI PVC	<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY				
WELL VOLUME: 0.769 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: 13.58 °C	OTHER:			
VOLUME REMOVED: 2.15 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: Lt Black	ODOR: Leachate			
COLOR: DK black \Rightarrow Lt black	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY	FILTRATE COLOR:	FILTRATE ODOR:			
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1				
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: Fed-Ex C7 Courier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: C7 Labs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfil	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0002	BY: JAR DATE: 5/21/19	BY: DATE:

SAMPLE ID: MW-107	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER 0'
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER NA	

PURGING	TIME: <u>1037</u>	DATE: 5/21/19	SAMPLE	TIME: <u>1046</u>	DATE: 5/21/19
PURGE METHOD: <input type="checkbox"/> PUMP BLADDER PUMP (QED) <input checked="" type="checkbox"/> BAILER BAILER (DISPOSABLE)	PH: <u>7.66</u> SU CONDUCTIVITY: <u>1142.1</u> umhos/cm		ORP: <u>95.4</u> mv DO: <u>8.33</u> mg/L		
DEPTH TO WATER: <u>50.47</u> T/ PVC	TURBIDITY: <u>NA</u> NTU		<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
DEPTH TO BOTTOM: 55.29 T/ PVC	TEMPERATURE: <u>17.01</u> °C OTHER:		COLOR: <u>Lt Tan</u> ODOR: <u>none</u>		
WELL VOLUME: <u>0.795</u> LITERS <input checked="" type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FILTRATE COLOR: FILTRATE ODOR:		
VOLUME REMOVED: <u>2.5</u> LITERS <input checked="" type="checkbox"/> GALLONS	TURBIDITY: <u>NA</u>		QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1		
COLOR: <u>Lt Tan</u> ODOR: <u>none</u>	<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		COMMENTS:		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FedEx <u>CT Carrier</u>	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: <u>WA</u>
COC NUMBER: <u>CT Labs</u>	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: <u>5/23/19</u>



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfil	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0002	BY: JAR DATE: 5/22/19	BY: DATE:

SAMPLE ID: MW-112	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER 0'
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER NA	

PURGING	TIME: 1558	DATE: 5/22/19	SAMPLE	TIME: 1615	DATE: 5/22/19
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BLADDER PUMP (QED) <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> BAILER (DISPOSABLE)	PH: 7.26 SU	CONDUCTIVITY: 849.0 umhos/cm	ORP: 19.9 mv	DO: 2.82 mg/L	
DEPTH TO WATER: 52.73 T/ PVC	TURBIDITY: NA NTU		<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
DEPTH TO BOTTOM: 60.5 T/ PVC	TEMPERATURE: 14.29 °C	OTHER:	COLOR: Lt Brown ODOR: NONE		
WELL VOLUME: 1.277 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FILTRATE COLOR: FILTRATE ODOR:		
VOLUME REMOVED: 4 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1		COMMENTS:		
COLOR: Lt Brown ODOR: NONE					
TURBIDITY: NA					
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY					
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER SAM					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
		A - NONE	B - HNO3	C - H2SO4	D - NaOH	E - HCL	F -		
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: Fed-Ex CT Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE:	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.00002	BY: JAR DATE: 5/21/19	BY: DATE:

SAMPLE ID: P-107D ^{5A1}	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
<input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER 5A1	

PURGING	TIME: 9:18	DATE: 5/21/19	SAMPLE	TIME: 10:00 90	DATE: 5/21/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER BAILER (DISPOSABLE)	PH: 7.19	SU	CONDUCTIVITY: 637.4	umhos/cm	
DEPTH TO WATER: 51.44 T/ PVC	ORP: 83.5	mv	DO: 0.84	mg/L	
DEPTH TO BOTTOM: 87.48 T/ PVC 322.7 5A1	TURBIDITY: NA	NTU	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: 9.81	°C	OTHER:		
VOLUME REMOVED: 4.0 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: Clear		ODOR: NONE		
COLOR: Clear	ODOR: NONE	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
TURBIDITY: NA	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	FILTRATE COLOR:	FILTRATE ODOR:		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1				
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
8:18 5A1 9:18	400	6.80	590.2	1017	18.3	NA	9.72	51.44	INITIAL
8:23 9:23	400	6.95	589.7	96.3	8.4	NA	9.72	51.44	
8:28 9:28	400	7.04	606.3	94.3	0.62 5A1	NA	9.72	51.40	
8:35 9:35	400	7.09	636.2	93.2	0.51	NA	9.75	51.40	
8:40 9:40	200	7.12	639.8	90.6	0.64	NA	9.89	51.40	
8:45 9:45	200	7.15	639.4	88.5	0.72	NA	9.80	51.40	
8:50 9:50	200	7.17	638.6	86.9	0.87	NA	9.83	51.40	
8:55 9:55	200	7.18	638.0	85.1	0.84	NA	9.75	51.40	
9:00 10:00	200	7.19	637.4	83.5	0.84	NA	9.81	51.40	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml	PL	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FedEx CT Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CTLabs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0000 ²	BY: JAR DATE: 5/22/19	BY: DATE:

SAMPLE ID: P-103	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
<input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1417	DATE: 5/22/19	SAMPLE	TIME: 1437	DATE: 5/22/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER BAILER (DISPOSABLE)	PH: 7.09 SU	CONDUCTIVITY: 768.4 umhos/cm	ORP: -4.0 mv	DO: 0.18 mg/L	
DEPTH TO WATER: 48.11 T/ PVC	TURBIDITY: NA NTU	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
DEPTH TO BOTTOM: 83.02 T/ PVC	TEMPERATURE: 10.69 °C	OTHER:			
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: Clear	ODOR: NONE			
VOLUME REMOVED: 2.5 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	FILTRATE COLOR: FILTRATE ODOR:			
COLOR: Clear	TURBIDITY: NA	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1			
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS:			

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1417	200	7.10	767.9	3.70	0.42	NA	10.84	48.11	INITIAL
1422	200	7.12	766.7	2.70	0.29	NA	10.78	48.53	
1427	200	7.10	769.2	1.50	0.23	NA	10.78	48.53	
1432	200	7.09	767.9	0.60	0.20	NA	10.74	48.53	
1437	200	7.09	768.4	-4.0	0.18	NA	10.69	48.53	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	250ml	PL	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: FedEx CT Courier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CF Labs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0000 2 SA	BY: JAR DATE: 5/22/19	BY: DATE:

SAMPLE ID: P-103D	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1501	DATE: 5/22/19	SAMPLE	TIME: 1526	DATE: 5/22/19
PURGE <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED)			PH: 7.14 SU	CONDUCTIVITY: 796.7 umhos/cm	
METHOD: <input type="checkbox"/> BAILER BAILER (DISPOSABLE)			ORP: -11.3 mv	DO: 0.28 mg/L	
DEPTH TO WATER: 49.32 T/ PVC			TURBIDITY: NA NTU		
DEPTH TO BOTTOM: 193.11 T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 11.26 °C	OTHER:	
VOLUME REMOVED: 23.5 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: Clear	ODOR: NONE	
COLOR: Clear	ODOR: NONE		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: NA			FILTRATE COLOR:	FILTRATE ODOR:	
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS:				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1501	200	7.73	784.8	5.30	3.46	NA	11.66	48.4	SA INITIAL
1506	200	7.27	798.3	0.40	3.88	NA	11.14	49.32	
1511	200	7.27	798.90	-3.20	0.35	NA	11.25	49.42	
1516	200	7.15	798.1	-6.50	0.32	NA	11.40	49.42	
1521	200	7.14	796.8	-9.30	0.29	NA	11.38	49.42	
1526	200	7.14	796.7	-11.3	0.28	NA	11.26	49.41	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: Fed-Ex CT Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CTLabs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0000	BY: JAR DATE: 5/22/19	BY: DATE:

SAMPLE ID: P-103D P-106 SAR	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1255	DATE: 5/22/19	SAMPLE	TIME: 1320	DATE: 5/22/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED)			PH: 7.29	SU	CONDUCTIVITY: 701.8 umhos/cm
<input type="checkbox"/> BAILER BAILER (DISPOSABLE)			ORP: -22.6 mv	DO: 0.42 mg/L	
DEPTH TO WATER: 53.71 T/ PVC			TURBIDITY: NA	NTU	
DEPTH TO BOTTOM: 193.11 T/ PVC 87.3 SAR			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 11.06 °C	OTHER:	
VOLUME REMOVED: 2.5 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: Clear	ODOR: NONE	
COLOR: Clear	ODOR: NONE		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: NA			FILTRATE COLOR:	FILTRATE ODOR:	
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS:				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1255	200	7.68	701.5	-8.20	1.80	NA	11.50	53.71	INITIAL
1300	200	7.51	700.9	-11.9	0.76	NA	11.17	53.81	
1305	200	7.42	702.4	-14.6	0.58	NA	10.95	53.81	
1310	200	7.36	703.1	-17.3	0.55	NA	10.82	53.81	
1315	200	7.32	702.1	-20.3	0.48	NA	11.06	53.81	
1320	200	7.29	701.8	-22.6	0.42	NA	11.06	53.81	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL Plastic		B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FedEx CT Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0002	BY: JAR DATE: 5/21/19	BY: DATE:

SAMPLE ID: <u>3A P-106-107</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
<input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER <u>NA</u>	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>9:20</u>	DATE: <u>5/21/19</u>	SAMPLE	TIME: <u>10:10</u>	DATE: <u>5/21/19</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	BLADDER PUMP (QED)	BAILER (DISPOSABLE)	PH: <u>6.90</u>	SU	CONDUCTIVITY: <u>832.5</u> umhos/cm
DEPTH TO WATER: <u>59.05</u>	PVC	DEPTH TO BOTTOM: <u>87.13</u>	ORP: <u>26.0</u> mv	DO: <u>0.60</u> mg/L	TURBIDITY: <u>NA</u> NTU
WELL VOLUME: <u>NA</u>	<input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: <u>11.05</u> °C	COLOR: <u>clear</u>	ODOR: <u>NONE</u>	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY
VOLUME REMOVED: <u>~4</u>	<input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	FILTRATE COLOR:	FILTRATE ODOR:	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1
COLOR: <u>Lt Orange => Clear</u>	ODOR: <u>NONE</u>	COMMENTS:			
TURBIDITY: <u>NA</u>	<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY				
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
9:20	200	7.09	832.6	80.0	2.90	NA	10.36	59.05	INITIAL
9:25	200	7.03	839.6	75.1	3.30	NA	10.22	51.08	
9:30	200	7.00	837.8	69.4	2.55	NA	10.11	50.91	
9:35	200	6.88	845.7	59.0	1.79	NA	10.45	50.90	
9:40	200	6.86	839.7	51.5	1.24	NA	10.45	50.89	
9:45	200	6.84	842.5	46.0	0.95	NA	10.55	50.89	
9:50	200	6.85	839.9	39.9	0.78	NA	10.95	50.88	
9:55	200	6.87	836.7	34.4	0.71	NA	11.38	50.78	
10:00	200	6.88	834.6	31.0	0.64	NA	11.20	50.79	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	250ml	PL	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>FedEx CTC Carriers</u>	DATE SHIPPED: <u>5/23/19</u>	AIRBILL NUMBER: <u>NA</u>
COC NUMBER: <u>CT Labs</u>	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>5/23/19</u>

Time	pH	Cond	ORP	DO	Temp	DTW
10 ⁰⁵	6.90	832.7	26.8	0.62	11.62	50.79
10 ¹⁰	6.90	832.5	26.0	0.60	11.05	50.79



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0000	BY: JAR DATE: 5/22/19	BY: DATE:

SAMPLE ID: P-111D	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING TIME: 7:47 DATE: 5/22/19	SAMPLE TIME: 8:52 DATE: 5/22/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER BAILER (DISPOSABLE)	PH: 6.71 (704) SU CONDUCTIVITY: 903.8 umhos/cm
DEPTH TO WATER: 39.01 T/ PVC	ORP: 1045.19.2 mv DO: 1.87 mg/L 0.13
DEPTH TO BOTTOM: 148.46 T/ PVC	TURBIDITY: NA NTU
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: 9.52 97.0 C OTHER:
VOLUME REMOVED: 4.5 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: Clear ODOR: NONE
COLOR: Clear ODOR: NONE	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
TURBIDITY: NA	FILTRATE COLOR: FILTRATE ODOR:
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP DUP 2
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
7:47	200	6.71	903.8	1045	1.87	NA	9.42	34.01	INITIAL
7:52	200	6.84	896.5	85.8	1.03	NA	9.52	34.31	
7:57	200	6.91	896.2	75.8	0.81	NA	9.52	34.31	
8:02	200	6.94	897.9	66.7	0.69	NA	9.52	34.31	
8:07	200	6.95	898.8	60.1	0.61	NA	9.55	34.31	
8:12	200	6.97	899.7	59.2	0.55	NA	9.55	34.31	
8:17	200	6.97	900.9	48.3	0.49	NA	9.56	34.31	
8:22	200	6.98	901.0	43.0	0.44	NA	9.61	34.31	
8:27	200	6.99	902.0	38.0	0.39	NA	9.61	34.31	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

7 over

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FedEx CTCA/12	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CTLabs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19

Time	Purge Rate	pH	Cond	ORP	DO	Temp	DTW
832	200	7.00	903.1	33.6	0.15	9.67	34.31
837	200	7.01	902.9	29.5	0.14	9.70	34.31
842	200	7.02	902.7	25.7	0.14	9.70	34.31
847	200	7.03	903.3	21.3	0.13	9.70	34.31
852	200	7.04	903.5	19.2	0.13	9.70	34.31



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0000 ² <i>CAN</i>	BY: JAR DATE: 5/21/19	BY: DATE:

SAMPLE ID: P-113A	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER <i>NA</i>	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1138	DATE: 5/21/19	SAMPLE	TIME: 1213	DATE: 5/21/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER BAILER (DISPOSABLE)			PH: 7.40 SU	CONDUCTIVITY: 558.4 umhos/cm	
DEPTH TO WATER: 13.39 T/ PVC			ORP: 16.4 mv	DO: 1.61 mg/L	
DEPTH TO BOTTOM: 325.31 T/ PVC			TURBIDITY: <i>NA</i> NTU	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	
WELL VOLUME: <i>NA</i> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 10.22 °C	OTHER:	
VOLUME REMOVED: 4.5 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: <i>Clear</i>	ODOR: <i>NONE</i>	
COLOR: <i>clear</i>	ODOR: <i>NONE</i>		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: <i>NA</i>			FILTRATE COLOR:	FILTRATE ODOR:	
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS:				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1138	200	7.66	563.4	18.2	0.35	<i>NA</i>	10.00	13.29	INITIAL 15.11
1143	200	7.48	565.2	16.9	0.31	<i>NA</i>	9.99	15.16	
1148	200	7.45	561.8	16.4	0.96	<i>NA</i>	10.08	15.18	
1153	200	7.44	560.1	16.2	1.25	<i>NA</i>	10.11	15.18	
1158	200	7.42	559.3	16.2	1.37	<i>NA</i>	10.12	15.20	
1203	200	7.41	558.5	16.20	1.48	<i>NA</i>	10.18	15.20	
1208	200	7.41	559.0	16.30	1.50	<i>NA</i>	10.18	15.20	
1213	200	7.40	558.4	16.4	1.61	<i>NA</i>	10.22	15.20	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: Fed Ex <i>CT Carrier</i>	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: <i>NA</i>
COC NUMBER: <i>CT Labs</i>	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED		CHECKED	
PROJECT NUMBER: 327275.0001.0000	BY: JAR	DATE: 5/22/19	BY:	DATE:

SAMPLE ID: P-113B	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1230	DATE: 5/21/19	SAMPLE	TIME: 1310	DATE: 5/21/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER BAILER (DISPOSABLE)	PH: 7.15 SU	CONDUCTIVITY: 679.8 umhos/cm	ORP: -28.40 mv	DO: 0.21 mg/L	
DEPTH TO WATER: 12.25 T/ PVC	TURBIDITY: NA NTU	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
DEPTH TO BOTTOM: 198.9 T/ PVC	TEMPERATURE: 10.17 °C	OTHER:			
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: Clear	ODOR: NONE			
VOLUME REMOVED: 3.5 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	FILTRATE COLOR: FILTRATE ODOR:			
COLOR: Clear ODOR: NONE	TURBIDITY: NA	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1			
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER				
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1230	200	7.56	674.1	12.9	1.69	NA	10.30	12.25	INITIAL
1235	200	7.41	679.0	5.2	0.54	NA	10.13	13.33	
1240	200	7.29	679.8	0.7	0.35	NA	10.17	13.33	
1245	200	7.22	680.2	-5.6	0.28	NA	10.17	13.33	
1250	200	7.18	681.5	-11.20	0.25	NA	10.14	13.33	
1255	200	7.14	680.6	-16.10	0.23	NA	10.08	13.33	
1300	200	7.13	680.4	-20.60	0.22	NA	10.13	13.33	
1305	200	7.14	681.4	-24.50	0.21	NA	10.14	13.33	
1310	200	7.15	679.8	-28.40	0.21	NA	10.17	13.33	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml Plastic		B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FedEx CT Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill		PREPARED		CHECKED	
PROJECT NUMBER: 327275.0001.0000		BY: JAR	DATE: 5/22/19	BY:	DATE:
SAMPLE ID: P-114		WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER			
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA					
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER					
PURGING	TIME: 1031	DATE: 5/22/19	SAMPLE	TIME: 1101	DATE: 5/22/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER		BLADDER PUMP (QED) <input type="checkbox"/> BAILER (DISPOSABLE) <input type="checkbox"/>		PH: 7.27	SU CONDUCTIVITY: 803.6 umhos/cm
DEPTH TO WATER: 10.96 T/ PVC		TURBIDITY: NA NTU		ORP: -23.40 mv	DO: 0.14 mg/L
DEPTH TO BOTTOM: 181.7 T/ PVC		TEMPERATURE: 10.03 °C		OTHER:	
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS		COLOR: Clear		ODOR: NONE	
VOLUME REMOVED: 23.0 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FILTRATE COLOR: <input type="checkbox"/> FILTRATE ODOR: <input type="checkbox"/>	
COLOR: Clear		ODOR: none		QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP-1	
TURBIDITY: NA		DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER		COMMENTS:	
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
9031	200	7.46	801.3	3.90	0.3	NA	9.94	18.96	INITIAL
1036	200	7.37	799.2	-1.8	0.22	NA	9.94	19.08	
1041	200	7.34	798.6	-7.0	0.17	NA	9.99	19.08	
1046	200	7.31	800.0	-10.7	0.16	NA	9.99	19.08	
1051	200	7.28	801.4	-15.6	0.13	NA	9.99	19.08	
1056	200	7.27	803.4	-19.60	0.13	NA	9.99	19.08	
1101	200	7.27	803.6	-23.40	0.14	NA	10.03	19.08	
(DUP-1)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FedEx CT Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill		PREPARED		CHECKED	
PROJECT NUMBER: 327275.0001.0000 2 SA		BY: JAR	DATE: 5/22/19	BY:	DATE:
SAMPLE ID: P-115		WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER			
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA					
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER					
PURGING	TIME: 1132	DATE: 5/22/19	SAMPLE	TIME: 1152	DATE: 5/22/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BLADDER PUMP (QED)		PH: 7.40 SU		CONDUCTIVITY: 649.9 umhos/cm	
<input type="checkbox"/> BAILER <input type="checkbox"/> BAILER (DISPOSABLE)		ORP: -45.0 mv		DO: 0.20 mg/L	
DEPTH TO WATER: 22.31 T/ PVC		TURBIDITY: NA NTU			
DEPTH TO BOTTOM: 179.77 T/ PVC		<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS		TEMPERATURE: 10.55 °C OTHER:			
VOLUME REMOVED: 2 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS		COLOR: Lt Tan		ODOR: NONE	
COLOR: Clear = 7 Lt Tan		ODOR: NONE		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
TURBIDITY: NA		FILTRATE COLOR:		FILTRATE ODOR:	
<input checked="" type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1		COMMENTS:	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1132	200	7.91	635.9	-63.198	1.05	NA	10.55	22.31	INITIAL
1137	200	7.62	647.8	-40.2	0.41	NA	10.46	22.48	
1142	200	7.48	650.2	-43.1	0.25	NA	10.49	22.48	
1147	200	7.42	649.7	-43.0	0.33	NA	10.55	22.48	
1152	200	7.40	649.9	-45.0	0.20	NA	10.55	22.48	
* Samples had black specs in them									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FedEx CT Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Rippon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0000'2	BY: JAR DATE: 5/22/19	BY: DATE:

SAMPLE ID: P-116	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER 0"
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER NA	

PURGING	TIME: 19:45	DATE: 5/22/19	SAMPLE	TIME: 20:40	DATE: 5/22/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER BAILER (DISPOSABLE)	PH: 7.43	SU	CONDUCTIVITY: 571.1	umhos/cm	
DEPTH TO WATER: 26.04 T/ PVC	ORP: 67.8	mv	DO: 3.36	mg/L	
DEPTH TO BOTTOM: 163.19 T/ PVC	TURBIDITY: NA	NTU	<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY		
WELL VOLUME: <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: 18.03	°C	OTHER:		
VOLUME REMOVED: ~.25 <input checked="" type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: Reddish Brown	ODOR: none			
COLOR: Reddish Brown	ODOR: none	FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
TURBIDITY: NA	FILTRATE COLOR:	FILTRATE ODOR:			
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1				
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS:				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
20:20	20	7.27	565.9	74.2	4.02	NA	19.19	26.04	INITIAL
20:25	20	7.33	568.9	74.2	3.59	NA	18.54	26.04	
20:30	20	7.39	564.5	71.1	3.41	NA	17.63	26.04	
20:35	20	7.41	567.5	69.5	3.37	NA	17.93	26.04	
20:41	20	7.43	571.1	67.8	3.36	NA	18.03	26.04	
- Palled QED Pump / not working, maybe screen blocked - Used Bladder Bladder pump (Pine), had a hard time getting any flow, ↑↑ Temp. Samples had a lot of suspended solids, and also bladder had suspended solids.									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

PH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FedEx CTCarrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CTCabs	SIGNATURE:	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED		CHECKED	
PROJECT NUMBER: 327275.0001.0000	BY: JAR	DATE: 5/21/19	BY:	DATE:

SAMPLE ID: P-117	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 16:17	DATE: 5/21/19	SAMPLE	TIME: 16:42	DATE: 5/21/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER BAILER (DISPOSABLE)	PH: 7.18	SU	CONDUCTIVITY: 783.2	umhos/cm	
DEPTH TO WATER: 15.01 T/ PVC	ORP: -33.6	mv	DO: 0.25	mg/L	
DEPTH TO BOTTOM: 165.56 T/ PVC	TURBIDITY: NA	NTU	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: 9.77	°C	OTHER:		
VOLUME REMOVED: ~3 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: clear		ODOR: NONE		
COLOR: Clear	ODOR: NONE	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
TURBIDITY: NA	FILTRATE COLOR:	FILTRATE ODOR:			
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1	COMMENTS:			
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
16:17	200	7.48	766.5	-26.6	0.99	NA	9.76	15.01	INITIAL
16:22	200	7.26	781.2	-28.8	0.41	NA	9.70	15.11	
16:27	200	7.20	782.0	-30.50	0.32	NA	9.70	15.11	
16:32	200	7.18	782.8	-31.8	0.29	NA	9.73	15.11	
16:37	200	7.17	782.0	-32.8	0.27	NA	9.75	15.11	
16:42	200	7.18	783.2	-33.6	0.25	NA	9.77	15.11	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	250ml Plastic		B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: FedEx CT Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED		CHECKED	
PROJECT NUMBER: 327275.0001.0000 ² SAR	BY: JAR	DATE: 5/21/19	BY:	DATE:

SAMPLE ID: P-118	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1704	DATE: 5/21/19	SAMPLE	TIME: 1729	DATE: 5/21/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER BAILER (DISPOSABLE)	PH: 7.51	SU	CONDUCTIVITY: 594.4	umhos/cm	
DEPTH TO WATER: 7.87 T/ PVC	ORP: -16.7	mv	DO: 0.17	mg/L	
DEPTH TO BOTTOM: 167.44 T/ PVC	TURBIDITY: NA	NTU	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: 10.07	°C	OTHER:		
VOLUME REMOVED: 2.5 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: Clear		ODOR: Lt Sulfur		
COLOR: Clear	ODOR: Lt Sulfur		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: NA			FILTRATE COLOR:	FILTRATE ODOR:	
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS:				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1704	200	7.72	593.7	-23.9	1.35	NA	9.93	7.87	INITIAL
1709	200	7.62	597.4	-18.7	0.44	NA	9.99	7.92	
1714	200	7.56	595.8	-18.2	0.23	NA	9.99	7.92	
1719	200	7.53	594.4	-17.7	0.19	NA	10.03	7.92	
1724	200	7.52	594.4	-17.1	0.18	NA	10.07	7.92	
1729	200	7.51	594.4	-16.7	0.17	NA	10.07	7.92	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: Fed Ex CT Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.00002	BY: JAR DATE: 5/21/19	BY: DATE:

SAMPLE ID: LC-1	WELL DIAMETER: <input type="checkbox"/> 2" <input checked="" type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
<input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER	NA
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI	<input checked="" type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER

PURGING	TIME: 1757	DATE: 5/21/19	SAMPLE	TIME: 1800	DATE: 5/21/19
PURGE METHOD: <input type="checkbox"/> PUMP BLADDER PUMP (QED)			PH: NM	SU	CONDUCTIVITY: NM umhos/cm
<input checked="" type="checkbox"/> BAILER BAILER (DISPOSABLE)			ORP: NM	mv	DO: NM mg/L
DEPTH TO WATER: 3314 TI PVC?			TURBIDITY: NM	NTU	
DEPTH TO BOTTOM: 277 TI PVC SAN			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY		
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: NM	°C OTHER:	
VOLUME REMOVED: 2.5 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: Black	ODOR: Leachate	
COLOR: Black	ODOR: Leachate		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: NA			FILTRATE COLOR:	FILTRATE ODOR:	
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS:				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
Thick Black Leachate									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml	PL	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FedEx CT Carriers	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0000 ² SAK	BY: JAR DATE: 5/23/19	BY: DATE:

SAMPLE ID: LC-2	WELL DIAMETER: <input type="checkbox"/> 2" <input checked="" type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
<input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input checked="" type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	5/23/19

PURGING	TIME: 10 ⁴⁹	DATE: 5/23/19	SAMPLE	TIME: 10 ⁵⁰	DATE: 5/23/19	SAK
PURGE METHOD: <input type="checkbox"/> PUMP BLADDER PUMP (QED)	PH: NM SU		CONDUCTIVITY: NM umhos/cm			
<input checked="" type="checkbox"/> BAILER BAILER (DISPOSABLE)	ORP: NM mv		DO: NM mg/L			
DEPTH TO WATER: 33.59 ft PVC ?			TURBIDITY: NA NTU			
DEPTH TO BOTTOM: 27.91 ft PVC SAK			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY			
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: °C OTHER:			
VOLUME REMOVED: 2.5 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: Black		ODOR: Leachate	
COLOR: Black ODOR: Leachate			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
TURBIDITY: NA			FILTRATE COLOR:		FILTRATE ODOR:	
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1			
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			COMMENTS:			

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	250ml	PL	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: FedEx CT Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0000-2 542	BY: JAR	DATE: 5/21/19

SAMPLE ID: LC-3	WELL DIAMETER: <input type="checkbox"/> 2" <input checked="" type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
<input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: ^{5#} <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input checked="" type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1:23	DATE: 5/21/19	SAMPLE	TIME: 1:25	DATE: 5/21/19
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BLADDER PUMP (QED) <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> BAILER (DISPOSABLE)			PH: NM SU CONDUCTIVITY: NM umhos/cm ORP: NM mv DO: NM mg/L		
DEPTH TO WATER: 33.14 T/ PVC ?			TURBIDITY: NA NTU <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY		
DEPTH TO BOTTOM: 20.14 T/ PVC 542			TEMPERATURE: NM °C OTHER:		
WELL VOLUME: ^{5#} 33.14 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: Black ODOR: Leachate		
VOLUME REMOVED: 2.5 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
COLOR: Black ODOR: Leachate			FILTRATE COLOR: FILTRATE ODOR:		
TURBIDITY: NA <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES												
		A - NONE			B - HNO3		C - H2SO4		D - NaOH		E - HCL		F - _____	
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N										<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml	PL	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N										<input type="checkbox"/> Y <input type="checkbox"/> N
1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N										<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FedEx CT Carrier	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 5/23/19



WATER SAMPLE LOG

PROJECT NAME: Ripon FF/NN Landfill	PREPARED	CHECKED
PROJECT NUMBER: 327275.0001.0000 ² ₃₂₁₁	BY: JAR DATE: 5/22/19	BY: DATE:

SAMPLE ID: Rhode	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER 8"
<input type="checkbox"/> PVC <input type="checkbox"/> SS <input checked="" type="checkbox"/> IRON <input type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 9:10	DATE: 5/22/19	SAMPLE	TIME: 9:25	DATE: 5/22/19
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	BLADDER PUMP (GED) <input checked="" type="checkbox"/> BAILER (DISPOSABLE)		PH: 7.48 SU	CONDUCTIVITY: 522.3 umhos/cm	
DEPTH TO WATER: NA T/ PVC			ORP: -14.1 mv	DO: 1.98 mg/L	
DEPTH TO BOTTOM: 228 T/ PVC			TURBIDITY: NA NTU		
WELL VOLUME: NA <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: 450 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 10.55 °C	OTHER:	
COLOR: Clear	ODOR: none		COLOR: clear	ODOR: none	
TURBIDITY: NA			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR:	FILTRATE ODOR:	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-1		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
Purged for 15 min then sampled									
~10 gal/min									
Pump is located at the Eastern end of the house. (Farm type utility pump)									
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: % ORP: +/- 10 D.O.: % 10 TURB: +/- 10 ORP +/- 10 TEMP.: %

BOTTLES FILLED		PRESERVATIVE CODES								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
3	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	250ml	PL	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: FedEx CT Carriers	DATE SHIPPED: 5/23/19	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE:	DATE SIGNED: 5/23/19

Company: **TRC**
 Project Contact: **James Wedekind**
 Telephone: **(608) 836-3666**
 Project Name: **FF/NN Landfill**
 Project #: **327375, 0001, 0002**
 Location: **Ripon WI**
 Sampled By: **J. Roelke**

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 Address: **708 Heartland Tr, Suite 3000 Madison WI 53717**
 Invoice To: *****
 EMAIL: **mstallenwerker@trcompanies.com**
 Company: **TRC**
 Address:

Lab Use Only
 Place Header Sticker Here:

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____
 PO # **138000**

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions **Send Report to**
 - James Wedekind @ **jwedekind@trcompanies.com**
 - Marita Stallenwerker @ **mstallenwerker@trcompanies.com**

ANALYSES REQUESTED		Filtered? Y/N	Total # Containers	Designated MS/MSD	Turnaround Time Normal RUSH*
Total Mn					Rush analysis requires prior CT Laboratories' approval Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%
Nitrate/Nitrite					
Sulfate					
VOC's 8260					
VOC's 524.2					

Collection Date	Time	Matrix	Grab/Comp	Sample #	Sample ID Description	Received by:	Date/Time	Received for Laboratory by:	Date/Time	Lab Use Only Ice Present Yes No Temp _____ IR Gun _____ Cooler # _____
5/11/19	900	GW	Grab	5	P-107D					
	1010				P-107					
	1046				MW-107					
	1213				P-113A					
	1310				P-113B					
	1443				MW-3A					
	1535				MW-3B					
	1642				P-117					
	1729				P-118					
	1800				LC-1					
	1825				LC-3					
	1850				LC-2					

Relinquished By: **[Signature]** Date/Time: **5/23/19 12:50**
 Received by: **[Signature]** Date/Time: **5/23/19**
 Received for Laboratory by: **[Signature]** Date/Time: **5/23/19**

Rev. 02/2017

Company: TRC
Project Contact: James Wedekind
Telephone: (608) 836-3666

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
508-356-2760 Fax 508-356-2766
www.ctlaboratories.com

Report To: *pepp@trccompanies.com*
EMAIL: *pepp@trccompanies.com*

Project Name: FF/MN Landfill
Project #: 37727500010002

Lab Use Only
Place Header Sticker Here:

Program:
QSM RCRA SDWA NPDES
Solid Waste Other

Company: TRC
Address: 308 Highland Tr,
Suite 300 Madison WI 53711
Invoice To: *
EMAIL: *instellerwerk@trccompanies.com*
Company: TRC
Address:

Location: Ripon WI

PO # 13000

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Sampled By: J. Raefcke

Client Special Instructions: Send Report to
- James Wedekind @ *jwedekind@trccompanies.com*
- Mervin Stellerwerk @ *instellerwerk@trccompanies.com*

ANALYSES REQUESTED

Filtered? Y/N
Total Mn
Nitrate/Nitrite
Sulfate
VOC's 8260
VOC's 5242

Total # Containers
Designated MS/MSD

Turnaround Time
Normal RUSH*
Date Needed:
Rush analysis requires prior
CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Matrix:
GW - Groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Fill in Spaces with Bottles per Test

CT Lab ID #
Lab use only

Collection Date	Time	Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	Total Mn	Nitrate/Nitrite	Sulfate	VOC's 8260	VOC's 5242	Total # Containers	Designated MS/MSD	Turnaround Time
5/22/19	8:52	GW	Grab	5	P-110D	N	X	X	X	X	X			
	9:25			5	Rhode	X	X	X	X	X	X			
	11:01			5	P-114	X	X	X	X	X	X			
	11:52			5	P-115	X	X	X	X	X	X			
	13:20			5	P-106	X	X	X	X	X	X			
	14:50			5	MW-103	X	X	X	X	X	X			
	15:26			5	P-103D	X	X	X	X	X	X			
	16:37			5	P-103	X	X	X	X	X	X			
	16:15			5	MW-112	X	X	X	X	X	X			
	16:55			5	MW-104	X	X	X	X	X	X			
	16:55			5	DuP-1	X	X	X	X	X	X			
	16:55			5	DuP-2	X	X	X	X	X	X			

Reinforced By: *[Signature]*
Date/Time: 5/23/19 12:00

Received By: *[Signature]*
Date/Time: 5/23/19 12:00

Lab Use Only
Ice Present Yes No
Temp _____ IR Gun _____
Cooler # _____

31 of 33

Company: **TRC**
 Project Contact: **Samuel Wedekind**
 Telephone: **(608) 826-3666**
 Project Name: **FF/RW Landfill**
 Project #: **327275.001.0002**
 Location: **Ripon WI**
 Sampled By: **S. Rokke**

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Report To:
 EMAIL:
 Company:
 Address:

Lab Use Only
 Place Header Sticker Here:

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____

PO #
138002

Invoice To:*
 EMAIL:
 Company:
 Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

ANALYSES REQUESTED

Filtered? Y/N	Total # Containers	Designated MS/MSD	Turnaround Time
Total Mn Nitrate/Nitrite Sulfate VOCs 8260			Normal RUSH* Date Needed: _____ Rush analysis requires prior CT Laboratories' approval Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%

Collection Date	Time	Matrix	Grab/Comp	Sample #	Sample ID Description	Fill in Spaces with Bottles per Test	CT Lab ID #	Lab use only
5/23/19	0810	GW	Grab	5	P-116	1	5	

Relinquished By: _____ Date/Time: 5/23/19 1200

Received By: _____ Date/Time: _____

Received for Laboratory By: _____ Date/Time: _____

Lab Use Only
 Ice Present Yes No
 Temperature _____
 Cooler # _____



2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161
 Fax (805) 526-7270

Air - Chain of Custody Record & Analytical Service Request

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

ALS Project No.

Company Name & Address (Reporting Information)

TRC Companies
 708 Heartland Trail, Suite 3000
 Windsor, WI 53717

Project Name

FE/INW Landfill Riprap

ALS Contact:

Analysis Method

Project Manager
 Morita Stollenwerk

P.O. # / Billing Information

Phone
 (262) 879-1220

Fax

Email Address for Result Reporting
 ppppp@trccompanies.com

Sampler (Print & Sign)
 Schu Koelke

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Analysis Method	Comments e.g. Actual Preservative or specific instructions
LC-1		5/20/19	16:15	155000882	AVG03637	-30	-6.30	237	70-15	
LC-2		5/20/19	16:44	15000069	0A0468	-28.5	-4.96	2354	70-15	
LC-3		5/20/19	16:55	15C01031	AVG04326	-30	-6.09	2391	70-15	
GP-6		5/20/19	17:05	155000834	AVG04747	-30	-4.88	25.18	70-15	
GP-3		5/20/19		15C01203	0A04562	Flow	Controlled	did not seal	(0A0436 a)	
GP-3		5/20/19	18:15	15C01203	0A04576	-30	-6.62	23.38	70-15	

Report Tier Levels - please select

Tier I - Results (Default if not specified) _____ Tier II (Results + QC & Calibration Summaries) _____
 Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) 10% Surcharge _____
 Tier I (Results + QC Summaries) X _____

Relinquished by: (Signature) _____ Date: 5/20/19 Time: 19:45
 Received by: (Signature) _____ Date: _____ Time: _____

Relinquished by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____

Chain of Custody Seal: (Circle)
 INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)
 Cooler / Blank Temperature _____ °C

Appendix B: Analytical Data



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

ANALYTICAL REPORT

TETRA TECH
 ASHLEY WAGNER
 175 N. CORPORATE DR.
 SUITE 100
 BROOKFIELD, WI 53045

Project Name: RIPON FF/NN LANDFILL
 Project Phase: RIPON, WI
 Contract #: 3183
 Project #: 117-2202061.01
 Folder #: 142766
 Purchase Order #:

Page 1 of 49
 Arrival Temperature: 1.1
 Report Date: 02/22/2019
 Date Received: 02/07/2019
 Reprint Date: 02/22/2019

CT LAB Sample#: 240179	Sample Description: MW-3A	License/Well #: 00467/133	Sampled: 02/05/2019 1205
------------------------	---------------------------	---------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	2.14	mg/L	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Depth to Groundwater (Field)	31.09	Feet	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
OX/REDOX (Field)	-82	MV	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Color (Field)	CLEAR		N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Conductivity (Field)	518	umhos/cm	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Groundwater Elevation (Field)	822.78	Feet MSL	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Odor (Field)	SULFUR		N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
pH (Field)	7.69	S.U.	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Temperature (Field)	8.34	Deg. C	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240179 Sample Description: MW-3A

License/Well #: 00467/133 Sampled: 02/05/2019 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Acetone	0.34	ug/L	0.30 *	1.0	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240179 Sample Description: MW-3A

License/Well #: 00467/133 Sampled: 02/05/2019 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromobenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Chloromethane	0.10	ug/L	0.040 *	0.13	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:37	02/15/2019 11:37	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240179 Sample Description: MW-3A

License/Well #: 00467/133 Sampled: 02/05/2019 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<0.030	ug/L	0.030	0.10	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1		02/15/2019 11:37	11:37	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1		02/15/2019 11:37	11:37	RLD	EPA 8260C

CT LAB Sample#: 240180 Sample Description: MW-3B

License/Well #: 00467/134 Sampled: 02/05/2019 1210

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	0.3	mg/L	N/A	N/A	1		02/05/2019 00:00	00:00	SUB	FIELD
Depth to Groundwater (Field)	29.45	Feet	N/A	N/A	1		02/05/2019 00:00	00:00	SUB	FIELD
OX/REDOX (Field)	-105	MV	N/A	N/A	1		02/05/2019 00:00	00:00	SUB	FIELD

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240180 Sample Description: MW-3B

License/Well #: 00467/134 Sampled: 02/05/2019 1210

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Color (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Conductivity (Field)	600	umhos/cm	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Groundwater Elevation (Field)	822.67	Feet MSL	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Odor (Field)	LT. SULFUR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
pH (Field)	7.7	S.U.	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Temperature (Field)	8.7	Deg. C	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:06	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 12:06	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			02/15/2019 12:06	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			02/15/2019 12:06	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 12:06	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			02/15/2019 12:06	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			02/15/2019 12:06	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:06	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			02/15/2019 12:06	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 12:06	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 12:06	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			02/15/2019 12:06	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 12:06	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:06	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			02/15/2019 12:06	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			02/15/2019 12:06	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 12:06	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240180 Sample Description: MW-3B

License/Well #: 00467/134 Sampled: 02/05/2019 1210

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:06	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:06	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:06	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			02/15/2019 12:06	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			02/15/2019 12:06	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			02/15/2019 12:06	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			02/15/2019 12:06	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			02/15/2019 12:06	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			02/15/2019 12:06	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			02/15/2019 12:06	RLD	EPA 8260C
Acetone	0.61	ug/L	0.30 *	1.0	1			02/15/2019 12:06	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			02/15/2019 12:06	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 12:06	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			02/15/2019 12:06	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			02/15/2019 12:06	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			02/15/2019 12:06	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			02/15/2019 12:06	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			02/15/2019 12:06	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			02/15/2019 12:06	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 12:06	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 12:06	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			02/15/2019 12:06	RLD	EPA 8260C
Chloromethane	0.077	ug/L	0.040 *	0.13	1			02/15/2019 12:06	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			02/15/2019 12:06	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			02/15/2019 12:06	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240180 Sample Description: MW-3B

License/Well #: 00467/134 Sampled: 02/05/2019 12:10

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			02/15/2019 12:06	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 12:06	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 12:06	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			02/15/2019 12:06	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 12:06	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			02/15/2019 12:06	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 12:06	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			02/15/2019 12:06	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			02/15/2019 12:06	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			02/15/2019 12:06	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			02/15/2019 12:06	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:06	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			02/15/2019 12:06	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 12:06	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:06	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 12:06	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			02/15/2019 12:06	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			02/15/2019 12:06	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			02/15/2019 12:06	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			02/15/2019 12:06	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:06	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			02/15/2019 12:06	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			02/15/2019 12:06	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			02/15/2019 12:06	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			02/15/2019 12:06	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240180 Sample Description: MW-3B License/Well #: 00467/134 Sampled: 02/05/2019 1210

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			02/15/2019 12:06	RLD	EPA 8260C
Vinyl chloride	0.045	ug/L	0.019 *	0.064	1			02/15/2019 12:06	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 12:06	RLD	EPA 8260C

CT LAB Sample#: 240181 Sample Description: P-113A License/Well #: 00467/136 Sampled: 02/05/2019 1350

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Dissolved Oxygen (Field)	3.59	mg/L	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Depth to Groundwater (Field)	13.09	Feet	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
OX/REDOX (Field)	-95	MV	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Color (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Conductivity (Field)	509	umhos/cm	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Groundwater Elevation (Field)	821.95	Feet MSL	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
pH (Field)	7.99	S.U.	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Temperature (Field)	5.09	Deg. C	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD

Organic Results

1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:35	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 12:35	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			02/15/2019 12:35	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			02/15/2019 12:35	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 12:35	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240181 Sample Description: P-113A

License/Well #: 00467/136 Sampled: 02/05/2019 1350

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			02/15/2019 12:35	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			02/15/2019 12:35	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:35	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			02/15/2019 12:35	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 12:35	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 12:35	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			02/15/2019 12:35	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 12:35	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:35	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			02/15/2019 12:35	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			02/15/2019 12:35	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 12:35	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:35	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:35	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:35	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			02/15/2019 12:35	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			02/15/2019 12:35	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			02/15/2019 12:35	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			02/15/2019 12:35	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			02/15/2019 12:35	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			02/15/2019 12:35	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			02/15/2019 12:35	RLD	EPA 8260C
Acetone	0.68	ug/L	0.30 *	1.0	1			02/15/2019 12:35	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			02/15/2019 12:35	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 12:35	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240181 Sample Description: P-113A

License/Well #: 00467/136 Sampled: 02/05/2019 1350

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			02/15/2019 12:35	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			02/15/2019 12:35	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			02/15/2019 12:35	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			02/15/2019 12:35	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			02/15/2019 12:35	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			02/15/2019 12:35	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 12:35	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 12:35	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			02/15/2019 12:35	RLD	EPA 8260C
Chloromethane	0.27	ug/L	0.040	0.13	1			02/15/2019 12:35	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			02/15/2019 12:35	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			02/15/2019 12:35	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			02/15/2019 12:35	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 12:35	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 12:35	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			02/15/2019 12:35	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 12:35	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			02/15/2019 12:35	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 12:35	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			02/15/2019 12:35	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			02/15/2019 12:35	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			02/15/2019 12:35	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			02/15/2019 12:35	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:35	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			02/15/2019 12:35	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240181 Sample Description: P-113A License/Well #: 00467/136 Sampled: 02/05/2019 1350

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
o-Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 12:35	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:35	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 12:35	RLD	EPA 8260C
Styrene	0.072	ug/L	0.030 *	0.11	1			02/15/2019 12:35	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			02/15/2019 12:35	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			02/15/2019 12:35	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			02/15/2019 12:35	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 12:35	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			02/15/2019 12:35	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			02/15/2019 12:35	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			02/15/2019 12:35	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			02/15/2019 12:35	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			02/15/2019 12:35	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			02/15/2019 12:35	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 12:35	RLD	EPA 8260C

CT LAB Sample#: 240182 Sample Description: P-113B License/Well #: 00467/138 Sampled: 02/05/2019 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	1.66	mg/L	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Depth to Groundwater (Field)	13.12	Feet	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
OX/REDOX (Field)	-105	MV	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Color (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240182 Sample Description: P-113B

License/Well #: 00467/138 Sampled: 02/05/2019 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Conductivity (Field)	618	umhos/cm	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Groundwater Elevation (Field)	821.18	Feet MSL	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
pH (Field)	7.81	S.U.	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Temperature (Field)	9.21	Deg. C	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:04	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 13:04	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			02/15/2019 13:04	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			02/15/2019 13:04	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 13:04	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			02/15/2019 13:04	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			02/15/2019 13:04	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:04	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			02/15/2019 13:04	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 13:04	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 13:04	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			02/15/2019 13:04	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 13:04	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:04	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			02/15/2019 13:04	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			02/15/2019 13:04	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 13:04	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:04	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240182 Sample Description: P-113B

License/Well #: 00467/138 Sampled: 02/05/2019 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:04	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:04	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			02/15/2019 13:04	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			02/15/2019 13:04	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			02/15/2019 13:04	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			02/15/2019 13:04	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			02/15/2019 13:04	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			02/15/2019 13:04	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			02/15/2019 13:04	RLD	EPA 8260C
Acetone	0.45	ug/L	0.30 *	1.0	1			02/15/2019 13:04	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			02/15/2019 13:04	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 13:04	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			02/15/2019 13:04	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			02/15/2019 13:04	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			02/15/2019 13:04	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			02/15/2019 13:04	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			02/15/2019 13:04	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			02/15/2019 13:04	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 13:04	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 13:04	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			02/15/2019 13:04	RLD	EPA 8260C
Chloromethane	0.21	ug/L	0.040	0.13	1			02/15/2019 13:04	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			02/15/2019 13:04	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			02/15/2019 13:04	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			02/15/2019 13:04	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240182 Sample Description: P-113B

License/Well #: 00467/138 Sampled: 02/05/2019 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromomethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 13:04	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 13:04	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			02/15/2019 13:04	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 13:04	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			02/15/2019 13:04	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 13:04	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			02/15/2019 13:04	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			02/15/2019 13:04	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			02/15/2019 13:04	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			02/15/2019 13:04	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:04	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			02/15/2019 13:04	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 13:04	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:04	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 13:04	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			02/15/2019 13:04	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			02/15/2019 13:04	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			02/15/2019 13:04	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			02/15/2019 13:04	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:04	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			02/15/2019 13:04	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			02/15/2019 13:04	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			02/15/2019 13:04	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			02/15/2019 13:04	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			02/15/2019 13:04	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240182 Sample Description: P-113B License/Well #: 00467/138 Sampled: 02/05/2019 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			02/15/2019 13:04	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 13:04	RLD	EPA 8260C

CT LAB Sample#: 240183 Sample Description: P-103D License/Well #: 00467/141 Sampled: 02/05/2019 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Dissolved Oxygen (Field)	0.4	mg/L	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Depth to Groundwater (Field)	49.31	Feet	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
OX/REDOX (Field)	-78	MV	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Color (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Conductivity (Field)	713	umhos/cm	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Groundwater Elevation (Field)	823.59	Feet MSL	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
pH (Field)	7.12	S.U.	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Temperature (Field)	8.95	Deg. C	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD

Organic Results

1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:33	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 13:33	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			02/15/2019 13:33	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			02/15/2019 13:33	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 13:33	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.20	1			02/15/2019 13:33	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240183 Sample Description: P-103D

License/Well #: 00467/141 Sampled: 02/05/2019 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			02/15/2019 13:33	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:33	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			02/15/2019 13:33	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 13:33	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 13:33	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			02/15/2019 13:33	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 13:33	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:33	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			02/15/2019 13:33	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			02/15/2019 13:33	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 13:33	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:33	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:33	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:33	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			02/15/2019 13:33	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			02/15/2019 13:33	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			02/15/2019 13:33	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			02/15/2019 13:33	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			02/15/2019 13:33	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			02/15/2019 13:33	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			02/15/2019 13:33	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			02/15/2019 13:33	RLD	EPA 8260C
Benzene	0.034	ug/L	0.018 *	0.059	1			02/15/2019 13:33	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 13:33	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			02/15/2019 13:33	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240183 Sample Description: P-103D

License/Well #: 00467/141 Sampled: 02/05/2019 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Chloromethane	0.18	ug/L	0.040	0.13	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.27	ug/L	0.070	0.23	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1	M	02/15/2019 13:33	13:33	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		02/15/2019 13:33	13:33	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		02/15/2019 13:33	13:33	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240183 Sample Description: P-103D

License/Well #: 00467/141 Sampled: 02/05/2019 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:33	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 13:33	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			02/15/2019 13:33	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			02/15/2019 13:33	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			02/15/2019 13:33	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			02/15/2019 13:33	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 13:33	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			02/15/2019 13:33	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			02/15/2019 13:33	RLD	EPA 8260C
Trichloroethene	0.052	ug/L	0.050 *	0.17	1			02/15/2019 13:33	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			02/15/2019 13:33	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			02/15/2019 13:33	RLD	EPA 8260C
Vinyl chloride	0.25	ug/L	0.019	0.064	1			02/15/2019 13:33	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 13:33	RLD	EPA 8260C

CT LAB Sample#: 240184 Sample Description: P-107D

License/Well #: 00467/119 Sampled: 02/05/2019 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	1.33	mg/L	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Depth to Groundwater (Field)	51.29	Feet	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
OX/REDOX (Field)	-37	MV	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Color (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Conductivity (Field)	543	umhos/cm	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240184 Sample Description: P-107D

License/Well #: 00467/119 Sampled: 02/05/2019 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Groundwater Elevation (Field)	822.38	Feet MSL	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
pH (Field)	7.55	S.U.	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Temperature (Field)	8.81	Deg. C	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:02	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 14:02	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			02/15/2019 14:02	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			02/15/2019 14:02	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 14:02	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			02/15/2019 14:02	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			02/15/2019 14:02	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:02	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			02/15/2019 14:02	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 14:02	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 14:02	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			02/15/2019 14:02	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 14:02	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:02	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			02/15/2019 14:02	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			02/15/2019 14:02	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 14:02	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:02	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:02	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240184 Sample Description: P-107D

License/Well #: 00467/119 Sampled: 02/05/2019 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:02	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			02/15/2019 14:02	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			02/15/2019 14:02	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			02/15/2019 14:02	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			02/15/2019 14:02	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			02/15/2019 14:02	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			02/15/2019 14:02	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			02/15/2019 14:02	RLD	EPA 8260C
Acetone	0.64	ug/L	0.30 *	1.0	1			02/15/2019 14:02	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			02/15/2019 14:02	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 14:02	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			02/15/2019 14:02	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			02/15/2019 14:02	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			02/15/2019 14:02	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			02/15/2019 14:02	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			02/15/2019 14:02	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			02/15/2019 14:02	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 14:02	RLD	EPA 8260C
Chloroethane	0.66	ug/L	0.070	0.23	1			02/15/2019 14:02	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			02/15/2019 14:02	RLD	EPA 8260C
Chloromethane	0.28	ug/L	0.040	0.13	1			02/15/2019 14:02	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.77	ug/L	0.070	0.23	1			02/15/2019 14:02	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			02/15/2019 14:02	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			02/15/2019 14:02	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 14:02	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240184 Sample Description: P-107D

License/Well #: 00467/119 Sampled: 02/05/2019 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		02/15/2019	14:02	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		02/15/2019	14:02	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019	14:02	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		02/15/2019	14:02	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019	14:02	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		02/15/2019	14:02	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		02/15/2019	14:02	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		02/15/2019	14:02	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		02/15/2019	14:02	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019	14:02	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		02/15/2019	14:02	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		02/15/2019	14:02	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		02/15/2019	14:02	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		02/15/2019	14:02	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		02/15/2019	14:02	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		02/15/2019	14:02	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		02/15/2019	14:02	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		02/15/2019	14:02	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		02/15/2019	14:02	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		02/15/2019	14:02	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		02/15/2019	14:02	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		02/15/2019	14:02	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		02/15/2019	14:02	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		02/15/2019	14:02	RLD	EPA 8260C
Vinyl chloride	3.2	ug/L	0.019	0.064	1		02/15/2019	14:02	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240184	Sample Description: P-107D	License/Well #: 00467/119	Sampled: 02/05/2019 1105
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 14:02	RLD	EPA 8260C

CT LAB Sample#: 240185	Sample Description: P-111D	License/Well #: 00467/130	Sampled: 02/05/2019 1130
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Dissolved Oxygen (Field)	0.26	mg/L	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Depth to Groundwater (Field)	34.27	Feet	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
OX/REDOX (Field)	-107	MV	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Color (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Conductivity (Field)	817	umhos/cm	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Groundwater Elevation (Field)	822.72	Feet MSL	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
pH (Field)	7.64	S.U.	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Temperature (Field)	8.93	Deg. C	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD

Organic Results

1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:31	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 14:31	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			02/15/2019 14:31	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			02/15/2019 14:31	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 14:31	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			02/15/2019 14:31	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			02/15/2019 14:31	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240185 Sample Description: P-111D

License/Well #: 00467/130 Sampled: 02/05/2019 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
Acetone	0.51	ug/L	0.30 *	1.0	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		02/15/2019 14:31	02/15/2019 14:31	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240185 Sample Description: P-111D

License/Well #: 00467/130 Sampled: 02/05/2019 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromoform	<0.040	ug/L	0.040	0.12	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Chloroethane	1.1	ug/L	0.070	0.23	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Chloromethane	0.20	ug/L	0.040	0.13	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
cis-1,2-Dichloroethene	2.7	ug/L	0.070	0.23	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Dichlorodifluoromethane	0.067	ug/L	0.060 *	0.19	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		02/15/2019 14:31	14:31	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		02/15/2019 14:31	14:31	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240185 Sample Description: P-111D

License/Well #: 00467/130 Sampled: 02/05/2019 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 14:31	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			02/15/2019 14:31	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			02/15/2019 14:31	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			02/15/2019 14:31	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			02/15/2019 14:31	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:31	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			02/15/2019 14:31	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			02/15/2019 14:31	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			02/15/2019 14:31	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			02/15/2019 14:31	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			02/15/2019 14:31	RLD	EPA 8260C
Vinyl chloride	3.9	ug/L	0.019	0.064	1			02/15/2019 14:31	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 14:31	RLD	EPA 8260C

CT LAB Sample#: 240186 Sample Description: P-117

License/Well #: 00467/144 Sampled: 02/05/2019 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	0.72	mg/L	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Depth to Groundwater (Field)	14.81	Feet	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
OX/REDOX (Field)	-92	MV	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Color (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Conductivity (Field)	697	umhos/cm	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Groundwater Elevation (Field)	819.25	Feet MSL	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240186 Sample Description: P-117

License/Well #: 00467/144 Sampled: 02/05/2019 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Odor (Field)	NONE		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
pH (Field)	7.62	S.U.	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Temperature (Field)	9.05	Deg. C	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:59	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 14:59	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			02/15/2019 14:59	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			02/15/2019 14:59	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 14:59	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			02/15/2019 14:59	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			02/15/2019 14:59	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:59	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			02/15/2019 14:59	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 14:59	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 14:59	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			02/15/2019 14:59	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 14:59	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:59	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			02/15/2019 14:59	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			02/15/2019 14:59	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 14:59	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:59	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:59	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:59	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240186 Sample Description: P-117

License/Well #: 00467/144 Sampled: 02/05/2019 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1			02/15/2019 14:59	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			02/15/2019 14:59	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			02/15/2019 14:59	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			02/15/2019 14:59	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			02/15/2019 14:59	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			02/15/2019 14:59	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			02/15/2019 14:59	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			02/15/2019 14:59	RLD	EPA 8260C
Benzene	0.022	ug/L	0.018 *	0.059	1			02/15/2019 14:59	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 14:59	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			02/15/2019 14:59	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			02/15/2019 14:59	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			02/15/2019 14:59	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			02/15/2019 14:59	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			02/15/2019 14:59	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			02/15/2019 14:59	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 14:59	RLD	EPA 8260C
Chloroethane	0.37	ug/L	0.070	0.23	1			02/15/2019 14:59	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			02/15/2019 14:59	RLD	EPA 8260C
Chloromethane	0.057	ug/L	0.040 *	0.13	1			02/15/2019 14:59	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.77	ug/L	0.070	0.23	1			02/15/2019 14:59	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			02/15/2019 14:59	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			02/15/2019 14:59	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 14:59	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 14:59	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240186 Sample Description: P-117

License/Well #: 00467/144 Sampled: 02/05/2019 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			02/15/2019 14:59	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 14:59	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			02/15/2019 14:59	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 14:59	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			02/15/2019 14:59	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			02/15/2019 14:59	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			02/15/2019 14:59	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			02/15/2019 14:59	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:59	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			02/15/2019 14:59	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 14:59	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:59	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 14:59	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			02/15/2019 14:59	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			02/15/2019 14:59	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			02/15/2019 14:59	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			02/15/2019 14:59	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 14:59	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			02/15/2019 14:59	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			02/15/2019 14:59	RLD	EPA 8260C
Trichloroethene	0.070	ug/L	0.050 *	0.17	1			02/15/2019 14:59	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			02/15/2019 14:59	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			02/15/2019 14:59	RLD	EPA 8260C
Vinyl chloride	1.4	ug/L	0.019	0.064	1			02/15/2019 14:59	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 14:59	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240186	Sample Description: P-117	License/Well #: 00467/144	Sampled: 02/05/2019 1245
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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CT LAB Sample#: 240187	Sample Description: P-118	License/Well #: 00467/145	Sampled: 02/05/2019 1310
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Dissolved Oxygen (Field)	1.12	mg/L	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Depth to Groundwater (Field)	7.58	Feet	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
OX/REDOX (Field)	-86	MV	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Color (Field)	CLEAR		N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Conductivity (Field)	541	umhos/cm	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Groundwater Elevation (Field)	819.14	Feet MSL	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
pH (Field)	7.8	S.U.	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Temperature (Field)	9.04	Deg. C	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD

Organic Results

1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		02/15/2019 15:28	02/15/2019 15:28	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		02/15/2019 15:28	02/15/2019 15:28	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		02/15/2019 15:28	02/15/2019 15:28	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		02/15/2019 15:28	02/15/2019 15:28	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		02/15/2019 15:28	02/15/2019 15:28	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		02/15/2019 15:28	02/15/2019 15:28	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		02/15/2019 15:28	02/15/2019 15:28	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 15:28	02/15/2019 15:28	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240187 Sample Description: P-118

License/Well #: 00467/145 Sampled: 02/05/2019 1310

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			02/15/2019 15:28	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 15:28	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 15:28	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			02/15/2019 15:28	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 15:28	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:28	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			02/15/2019 15:28	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			02/15/2019 15:28	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 15:28	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:28	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:28	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:28	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			02/15/2019 15:28	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			02/15/2019 15:28	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			02/15/2019 15:28	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			02/15/2019 15:28	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			02/15/2019 15:28	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			02/15/2019 15:28	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			02/15/2019 15:28	RLD	EPA 8260C
Acetone	0.48	ug/L	0.30 *	1.0	1			02/15/2019 15:28	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			02/15/2019 15:28	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 15:28	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			02/15/2019 15:28	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			02/15/2019 15:28	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			02/15/2019 15:28	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240187 Sample Description: P-118

License/Well #: 00467/145 Sampled: 02/05/2019 1310

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromomethane	<0.080	ug/L	0.080	0.28	1			02/15/2019 15:28	RLD	EPA 8260C
Carbon disulfide	0.14	ug/L	0.070 *	0.25	1			02/15/2019 15:28	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			02/15/2019 15:28	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 15:28	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 15:28	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			02/15/2019 15:28	RLD	EPA 8260C
Chloromethane	0.13	ug/L	0.040	0.13	1			02/15/2019 15:28	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			02/15/2019 15:28	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			02/15/2019 15:28	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			02/15/2019 15:28	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 15:28	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 15:28	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			02/15/2019 15:28	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 15:28	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			02/15/2019 15:28	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 15:28	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			02/15/2019 15:28	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			02/15/2019 15:28	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			02/15/2019 15:28	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			02/15/2019 15:28	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:28	RLD	EPA 8260C
Naphthalene	0.057	ug/L	0.030 *	0.10	1			02/15/2019 15:28	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 15:28	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:28	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 15:28	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240187 Sample Description: P-118 License/Well #: 00467/145 Sampled: 02/05/2019 1310

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Styrene	<0.030	ug/L	0.030	0.11	1			02/15/2019 15:28	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			02/15/2019 15:28	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			02/15/2019 15:28	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			02/15/2019 15:28	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:28	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			02/15/2019 15:28	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			02/15/2019 15:28	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			02/15/2019 15:28	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			02/15/2019 15:28	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			02/15/2019 15:28	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			02/15/2019 15:28	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 15:28	RLD	EPA 8260C

CT LAB Sample#: 240188 Sample Description: P-114 License/Well #: 00467/140 Sampled: 02/05/2019 1520

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	0.17	mg/L	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Depth to Groundwater (Field)	19.16	Feet	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
OX/REDOX (Field)	-114	MV	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Color (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Conductivity (Field)	720	umhos/cm	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Groundwater Elevation (Field)	820.86	Feet MSL	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240188 Sample Description: P-114

License/Well #: 00467/140 Sampled: 02/05/2019 1520

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
pH (Field)	7.81	S.U.	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Temperature (Field)	9.39	Deg. C	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:57	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 15:57	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			02/15/2019 15:57	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			02/15/2019 15:57	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			02/15/2019 15:57	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			02/15/2019 15:57	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			02/15/2019 15:57	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:57	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			02/15/2019 15:57	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 15:57	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 15:57	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			02/15/2019 15:57	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 15:57	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:57	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			02/15/2019 15:57	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			02/15/2019 15:57	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 15:57	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:57	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:57	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:57	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			02/15/2019 15:57	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240188 Sample Description: P-114

License/Well #: 00467/140 Sampled: 02/05/2019 1520

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			02/15/2019 15:57	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			02/15/2019 15:57	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			02/15/2019 15:57	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			02/15/2019 15:57	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			02/15/2019 15:57	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			02/15/2019 15:57	RLD	EPA 8260C
Acetone	0.35	ug/L	0.30 *	1.0	1			02/15/2019 15:57	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			02/15/2019 15:57	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 15:57	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			02/15/2019 15:57	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			02/15/2019 15:57	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			02/15/2019 15:57	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			02/15/2019 15:57	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			02/15/2019 15:57	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			02/15/2019 15:57	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 15:57	RLD	EPA 8260C
Chloroethane	0.22	ug/L	0.070 *	0.23	1			02/15/2019 15:57	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			02/15/2019 15:57	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:57	RLD	EPA 8260C
cis-1,2-Dichloroethene	1.6	ug/L	0.070	0.23	1			02/15/2019 15:57	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			02/15/2019 15:57	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			02/15/2019 15:57	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 15:57	RLD	EPA 8260C
Dichlorodifluoromethane	0.061	ug/L	0.060 *	0.19	1			02/15/2019 15:57	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			02/15/2019 15:57	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240188 Sample Description: P-114

License/Well #: 00467/140 Sampled: 02/05/2019 1520

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 15:57	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			02/15/2019 15:57	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 15:57	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			02/15/2019 15:57	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			02/15/2019 15:57	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			02/15/2019 15:57	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			02/15/2019 15:57	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:57	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			02/15/2019 15:57	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 15:57	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:57	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 15:57	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			02/15/2019 15:57	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			02/15/2019 15:57	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			02/15/2019 15:57	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			02/15/2019 15:57	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 15:57	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			02/15/2019 15:57	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			02/15/2019 15:57	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			02/15/2019 15:57	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			02/15/2019 15:57	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			02/15/2019 15:57	RLD	EPA 8260C
Vinyl chloride	7.1	ug/L	0.019	0.064	1			02/15/2019 15:57	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 15:57	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240189 Sample Description: P-114-DUP

License/Well #: 00467/140 Sampled: 02/05/2019 1525

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		02/15/2019 16:26	16:26	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240189 Sample Description: P-114-DUP

License/Well #: 00467/140 Sampled: 02/05/2019 1525

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Hexanone	<0.24	ug/L	0.24	0.81	1			02/15/2019 16:26	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			02/15/2019 16:26	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			02/15/2019 16:26	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			02/15/2019 16:26	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			02/15/2019 16:26	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 16:26	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			02/15/2019 16:26	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			02/15/2019 16:26	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			02/15/2019 16:26	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			02/15/2019 16:26	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			02/15/2019 16:26	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			02/15/2019 16:26	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 16:26	RLD	EPA 8260C
Chloroethane	0.23	ug/L	0.070	0.23	1			02/15/2019 16:26	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			02/15/2019 16:26	RLD	EPA 8260C
Chloromethane	0.11	ug/L	0.040 *	0.13	1			02/15/2019 16:26	RLD	EPA 8260C
cis-1,2-Dichloroethene	1.6	ug/L	0.070	0.23	1			02/15/2019 16:26	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			02/15/2019 16:26	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			02/15/2019 16:26	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			02/15/2019 16:26	RLD	EPA 8260C
Dichlorodifluoromethane	0.073	ug/L	0.060 *	0.19	1			02/15/2019 16:26	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			02/15/2019 16:26	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 16:26	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			02/15/2019 16:26	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			02/15/2019 16:26	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240189 Sample Description: P-114-DUP

License/Well #: 00467/140 Sampled: 02/05/2019 1525

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
Vinyl chloride	7.2	ug/L	0.019	0.064	1		02/15/2019 16:26	16:26	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1		02/15/2019 16:26	16:26	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240190 Sample Description: P-115

License/Well #: 00467/142 Sampled: 02/05/2019 1550

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	0.32	mg/L	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Depth to Groundwater (Field)	22.46	Feet	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
OX/REDOX (Field)	-115	MV	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Color (Field)	CLEAR		N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Conductivity (Field)	589	umhos/cm	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Groundwater Elevation (Field)	820.98	Feet MSL	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
pH (Field)	7.82	S.U.	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Temperature (Field)	9.47	Deg. C	N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1		02/05/2019 00:00	02/05/2019 00:00	SUB	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		02/15/2019 16:55	02/15/2019 16:55	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		02/15/2019 16:55	02/15/2019 16:55	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		02/15/2019 16:55	02/15/2019 16:55	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		02/15/2019 16:55	02/15/2019 16:55	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		02/15/2019 16:55	02/15/2019 16:55	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		02/15/2019 16:55	02/15/2019 16:55	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		02/15/2019 16:55	02/15/2019 16:55	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 16:55	02/15/2019 16:55	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		02/15/2019 16:55	02/15/2019 16:55	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 16:55	02/15/2019 16:55	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 16:55	02/15/2019 16:55	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1		02/15/2019 16:55	02/15/2019 16:55	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240190 Sample Description: P-115

License/Well #: 00467/142 Sampled: 02/05/2019 1550

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			02/15/2019 16:55	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 16:55	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			02/15/2019 16:55	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			02/15/2019 16:55	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 16:55	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 16:55	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			02/15/2019 16:55	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 16:55	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			02/15/2019 16:55	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			02/15/2019 16:55	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			02/15/2019 16:55	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			02/15/2019 16:55	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			02/15/2019 16:55	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			02/15/2019 16:55	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			02/15/2019 16:55	RLD	EPA 8260C
Acetone	0.47	ug/L	0.30 *	1.0	1			02/15/2019 16:55	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			02/15/2019 16:55	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 16:55	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			02/15/2019 16:55	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			02/15/2019 16:55	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			02/15/2019 16:55	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			02/15/2019 16:55	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			02/15/2019 16:55	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			02/15/2019 16:55	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			02/15/2019 16:55	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240190 Sample Description: P-115

License/Well #: 00467/142 Sampled: 02/05/2019 1550

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroethane	<0.070	ug/L	0.070	0.23	1		02/15/2019	16:55	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		02/15/2019	16:55	RLD	EPA 8260C
Chloromethane	0.058	ug/L	0.040 *	0.13	1		02/15/2019	16:55	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.12	ug/L	0.070 *	0.23	1		02/15/2019	16:55	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		02/15/2019	16:55	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		02/15/2019	16:55	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		02/15/2019	16:55	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		02/15/2019	16:55	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		02/15/2019	16:55	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019	16:55	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		02/15/2019	16:55	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019	16:55	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		02/15/2019	16:55	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		02/15/2019	16:55	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		02/15/2019	16:55	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		02/15/2019	16:55	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019	16:55	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		02/15/2019	16:55	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		02/15/2019	16:55	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		02/15/2019	16:55	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		02/15/2019	16:55	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		02/15/2019	16:55	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		02/15/2019	16:55	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		02/15/2019	16:55	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		02/15/2019	16:55	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240190 Sample Description: P-115 License/Well #: 00467/142 Sampled: 02/05/2019 1550

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Toluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 16:55	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			02/15/2019 16:55	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			02/15/2019 16:55	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			02/15/2019 16:55	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			02/15/2019 16:55	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			02/15/2019 16:55	RLD	EPA 8260C
Vinyl chloride	0.98	ug/L	0.019	0.064	1			02/15/2019 16:55	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 16:55	RLD	EPA 8260C

CT LAB Sample#: 240191 Sample Description: P-116 License/Well #: 00467/143 Sampled: 02/05/2019 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	0.62	mg/L	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Depth to Groundwater (Field)	26.20	Feet	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
OX/REDOX (Field)	-83	MV	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Color (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Conductivity (Field)	500	umhos/cm	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Groundwater Elevation (Field)	820.14	Feet MSL	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
pH (Field)	7.93	S.U.	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Temperature (Field)	6.18	Deg. C	N/A	N/A	1			02/05/2019 00:00	SUB	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			02/05/2019 00:00	SUB	FIELD

Organic Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240191 Sample Description: P-116

License/Well #: 00467/143 Sampled: 02/05/2019 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		02/15/2019 17:24	17:24	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240191 Sample Description: P-116

License/Well #: 00467/143 Sampled: 02/05/2019 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Acetone	0.46	ug/L	0.30 *	1.0	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Chloromethane	0.10	ug/L	0.040 *	0.13	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 17:24	17:24	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		02/15/2019 17:24	17:24	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240191 Sample Description: P-116 License/Well #: 00467/143 Sampled: 02/05/2019 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			02/15/2019 17:24	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			02/15/2019 17:24	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			02/15/2019 17:24	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			02/15/2019 17:24	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			02/15/2019 17:24	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 17:24	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 17:24	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			02/15/2019 17:24	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			02/15/2019 17:24	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			02/15/2019 17:24	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			02/15/2019 17:24	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			02/15/2019 17:24	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			02/15/2019 17:24	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			02/15/2019 17:24	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			02/15/2019 17:24	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			02/15/2019 17:24	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			02/15/2019 17:24	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			02/15/2019 17:24	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			02/15/2019 17:24	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			02/15/2019 17:24	RLD	EPA 8260C

CT LAB Sample#: 240192 Sample Description: TRIP BLANK License/Well #: 00467/999 Sampled: 02/05/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240192 Sample Description: TRIP BLANK

License/Well #: 00467/999 Sampled: 02/05/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		02/15/2019 11:08	02/15/2019 11:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240192 Sample Description: TRIP BLANK

License/Well #: 00467/999 Sampled: 02/05/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Hexanone	<0.24	ug/L	0.24	0.81	1		02/15/2019 11:08	RLD	EPA 8260C	
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		02/15/2019 11:08	RLD	EPA 8260C	
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		02/15/2019 11:08	RLD	EPA 8260C	
Acetone	0.42	ug/L	0.30 *	1.0	1		02/15/2019 11:08	RLD	EPA 8260C	
Benzene	<0.018	ug/L	0.018	0.059	1		02/15/2019 11:08	RLD	EPA 8260C	
Bromobenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 11:08	RLD	EPA 8260C	
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		02/15/2019 11:08	RLD	EPA 8260C	
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		02/15/2019 11:08	RLD	EPA 8260C	
Bromoform	<0.040	ug/L	0.040	0.12	1		02/15/2019 11:08	RLD	EPA 8260C	
Bromomethane	<0.080	ug/L	0.080	0.28	1		02/15/2019 11:08	RLD	EPA 8260C	
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		02/15/2019 11:08	RLD	EPA 8260C	
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		02/15/2019 11:08	RLD	EPA 8260C	
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 11:08	RLD	EPA 8260C	
Chloroethane	<0.070	ug/L	0.070	0.23	1		02/15/2019 11:08	RLD	EPA 8260C	
Chloroform	<0.030	ug/L	0.030	0.11	1		02/15/2019 11:08	RLD	EPA 8260C	
Chloromethane	0.042	ug/L	0.040 *	0.13	1		02/15/2019 11:08	RLD	EPA 8260C	
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1		02/15/2019 11:08	RLD	EPA 8260C	
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		02/15/2019 11:08	RLD	EPA 8260C	
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		02/15/2019 11:08	RLD	EPA 8260C	
Dibromomethane	<0.050	ug/L	0.050	0.17	1		02/15/2019 11:08	RLD	EPA 8260C	
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		02/15/2019 11:08	RLD	EPA 8260C	
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		02/15/2019 11:08	RLD	EPA 8260C	
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		02/15/2019 11:08	RLD	EPA 8260C	
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		02/15/2019 11:08	RLD	EPA 8260C	
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		02/15/2019 11:08	RLD	EPA 8260C	

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 240192 Sample Description: TRIP BLANK

License/Well #: 00467/999 Sampled: 02/05/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		02/15/2019	11:08	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		02/15/2019	11:08	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		02/15/2019	11:08	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		02/15/2019	11:08	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		02/15/2019	11:08	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		02/15/2019	11:08	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		02/15/2019	11:08	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		02/15/2019	11:08	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		02/15/2019	11:08	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		02/15/2019	11:08	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		02/15/2019	11:08	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		02/15/2019	11:08	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		02/15/2019	11:08	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		02/15/2019	11:08	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		02/15/2019	11:08	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		02/15/2019	11:08	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		02/15/2019	11:08	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		02/15/2019	11:08	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		02/15/2019	11:08	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1		02/15/2019	11:08	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1		02/15/2019	11:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: **Brett M. Szymanski**
 Project Manager
 608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 Louisiana NELAP (primary) ID# ACC20160002
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 Maryland Lab ID# WI00061
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID ACC20160002

QC SUMMARY REPORT

TETRA TECH

Project Name: RIPON FF/NN LANDFILL

SDG #: 0

Folder #: 142766

Project #: 117-2202061.01

Lab Control Spike Water

Analytical Run #:	157886	Analysis Date:	02/15/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	243607	Analysis Time:	08:43	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.04	ug/L			4.00	101	78 --- 121		20
1,1,1-Trichloroethane	4.18	ug/L			4.00	104	82 --- 122		20
1,1,2,2-Tetrachloroethane	3.99	ug/L			4.00	100	68 --- 128		20
1,1,2-Trichloroethane	3.96	ug/L			4.00	99	84 --- 114		20
1,1-Dichloroethane	4.10	ug/L			4.00	102	76 --- 122		20
1,1-Dichloroethene	4.06	ug/L			4.00	102	83 --- 123		20
1,1-Dichloropropene	4.15	ug/L			4.00	104	85 --- 120		20
1,2 Dichloroethane-d4	95.0	% Recovery			100	95.0	87 --- 107		
1,2,3-Trichlorobenzene	4.25	ug/L			4.00	106	78 --- 121		20
1,2,3-Trichloropropane	4.02	ug/L			4.00	100	62 --- 129		20
1,2,4-Trichlorobenzene	4.34	ug/L			4.00	108	80 --- 120		20
1,2,4-Trimethylbenzene	4.33	ug/L			4.00	108	76 --- 125		20
1,2-Dibromo-3-chloropropane	4.13	ug/L			4.00	103	69 --- 125		20
1,2-Dibromoethane	3.93	ug/L			4.00	98	80 --- 118		20
1,2-Dichlorobenzene	3.97	ug/L			4.00	99	80 --- 117		20
1,2-Dichloroethane	3.90	ug/L			4.00	98	78 --- 118		20
1,2-Dichloropropane	3.85	ug/L			4.00	96	78 --- 121		20
1,3,5-Trimethylbenzene	4.25	ug/L			4.00	106	76 --- 126		20
1,3-Dichlorobenzene	4.20	ug/L			4.00	105	78 --- 119		20
1,3-Dichloropropane	4.03	ug/L			4.00	101	82 --- 117		20
1,4-Dichlorobenzene	4.09	ug/L			4.00	102	77 --- 118		20
1,4-Dioxane	187	ug/L			200	94	11 --- 220		20
2,2-Dichloropropane	4.28	ug/L			4.00	107	71 --- 133		20
2-Butanone	39.1	ug/L			40.0	98	80 --- 120		20
2-Chlorotoluene	4.18	ug/L			4.00	104	73 --- 124		20
2-Hexanone	41.0	ug/L			40.0	102	73 --- 127		20
4-Chlorotoluene	4.18	ug/L			4.00	104	74 --- 125		20
4-Methyl-2-pentanone	40.1	ug/L			40.0	100	77 --- 125		20
Acetone	36.0	ug/L			40.0	90	72 --- 117		20
Benzene	4.07	ug/L			4.00	102	82 --- 118		20
Bromobenzene	4.21	ug/L			4.00	105	77 --- 118		20
Bromochloromethane	3.96	ug/L			4.00	99	81 --- 116		20
Bromodichloromethane	4.11	ug/L			4.00	103	80 --- 122		20
Bromofluorobenzene	101	% Recovery			100	101	90 --- 108		
Bromoform	4.38	ug/L			4.00	110	72 --- 124		20

Lab Control Spike Water

Analytical Run #:	157886	Analysis Date:	02/15/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	243607	Analysis Time:	08:43	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Bromomethane	4.65	ug/L			4.00	116	25 --- 156		20
Carbon disulfide	8.44	ug/L			8.00	106	81 --- 124		20
Carbon tetrachloride	4.36	ug/L			4.00	109	87 --- 129		20
Chlorobenzene	4.10	ug/L			4.00	102	78 --- 118		20
Chloroethane	3.98	ug/L			4.00	100	73 --- 126		20
Chloroform	3.99	ug/L			4.00	100	76 --- 119		20
Chloromethane	4.02	ug/L			4.00	100	70 --- 121		20
cis-1,2-Dichloroethene	4.05	ug/L			4.00	101	82 --- 118		20
cis-1,3-Dichloropropene	4.19	ug/L			4.00	105	81 --- 123		20
d8-Toluene	99.0	% Recovery			100	99.0	93 --- 108		
Dibromochloromethane	4.24	ug/L			4.00	106	76 --- 124		20
Dibromofluoromethane	97.0	% Recovery			100	97.0	93 --- 106		
Dibromomethane	3.96	ug/L			4.00	99	83 --- 115		20
Dichlorodifluoromethane	4.15	ug/L			4.00	104	78 --- 126		20
Diisopropyl ether	3.95	ug/L			4.00	99	75 --- 125		20
Ethylbenzene	4.28	ug/L			4.00	107	78 --- 125		20
Hexachlorobutadiene	4.09	ug/L			4.00	102	79 --- 123		20
Isopropylbenzene	4.28	ug/L			4.00	107	81 --- 124		20
m & p-Xylene	8.23	ug/L			8.00	103	80 --- 123		20
Methyl tert-butyl ether	3.90	ug/L			4.00	98	82 --- 116		20
Methylene chloride	4.27	ug/L			4.00	107	73 --- 128		20
n-Butylbenzene	4.24	ug/L			4.00	106	76 --- 127		20
n-Propylbenzene	4.33	ug/L			4.00	108	75 --- 129		20
Naphthalene	4.12	ug/L			4.00	103	64 --- 129		20
o-Xylene	4.18	ug/L			4.00	104	81 --- 121		20
p-Isopropyltoluene	4.29	ug/L			4.00	107	79 --- 126		20
sec-Butylbenzene	4.29	ug/L			4.00	107	76 --- 128		20
Styrene	4.21	ug/L			4.00	105	81 --- 122		20
tert-Butylbenzene	4.33	ug/L			4.00	108	76 --- 125		20
Tetrachloroethene	4.15	ug/L			4.00	104	82 --- 123		20
Tetrahydrofuran	38.0	ug/L			40.0	95	69 --- 122		20
Toluene	4.09	ug/L			4.00	102	82 --- 119		20
trans-1,2-Dichloroethene	4.04	ug/L			4.00	101	80 --- 122		20
trans-1,3-Dichloropropene	4.21	ug/L			4.00	105	83 --- 119		20
Trichloroethene	4.02	ug/L			4.00	100	82 --- 120		20
Trichlorofluoromethane	4.30	ug/L			4.00	108	78 --- 130		20
Vinyl acetate	43.0	ug/L			40.0	108	63 --- 136		20
Vinyl chloride	4.18	ug/L			4.00	104	73 --- 127		20

Matrix Spike Duplicate Water

Analytical Run #:	157886	Analysis Date:	02/15/2019	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	245844	Analysis Time:	18:21	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	244094	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.19	ug/L	BDL		4.00	80	67 --- 122	1	21
1,1,1-Trichloroethane	3.46	ug/L	BDL		4.00	86	69 --- 128	0	20
1,1,2,2-Tetrachloroethane	2.96	ug/L	BDL		4.00	74	54 --- 130	3	22
1,1,2-Trichloroethane	3.16	ug/L	BDL		4.00	79	67 --- 116	4	25
1,1-Dichloroethane	3.33	ug/L	BDL		4.00	83	64 --- 124	1	25
1,1-Dichloroethene	3.51	ug/L	BDL		4.00	88	70 --- 130	5	24
1,1-Dichloropropene	3.40	ug/L	BDL		4.00	85	74 --- 127	3	21
1,2 Dichloroethane-d4	109	% Recovery		S	100	109	86 --- 106		7
1,2,3-Trichlorobenzene	3.31	ug/L	BDL		4.00	83	56 --- 134	4	31
1,2,3-Trichloropropane	2.67	ug/L	BDL		4.00	67	54 --- 117	1	26
1,2,4-Trichlorobenzene	3.36	ug/L	BDL		4.00	84	56 --- 133	3	29
1,2,4-Trimethylbenzene	3.35	ug/L	BDL		4.00	84	63 --- 132	2	36
1,2-Dibromo-3-chloropropane	2.80	ug/L	BDL		4.00	70	48 --- 121	11	34
1,2-Dibromoethane	2.97	ug/L	BDL		4.00	74	66 --- 114	6	22
1,2-Dichlorobenzene	3.11	ug/L	BDL		4.00	78	63 --- 124	3	23
1,2-Dichloroethane	3.03	ug/L	BDL		4.00	76	60 --- 117	3	21
1,2-Dichloropropane	3.07	ug/L	BDL		4.00	77	67 --- 121	5	19
1,3,5-Trimethylbenzene	3.34	ug/L	BDL		4.00	84	68 --- 130	0	34
1,3-Dichlorobenzene	3.31	ug/L	BDL		4.00	83	66 --- 126	1	22
1,3-Dichloropropane	3.12	ug/L	BDL		4.00	78	67 --- 114	4	23
1,4-Dichlorobenzene	3.15	ug/L	BDL		4.00	79	65 --- 125	4	22
1,4-Dioxane	173	ug/L	BDL		200	86	19 --- 208	9	20
2,2-Dichloropropane	3.14	ug/L	BDL		4.00	78	57 --- 136	1	21
2-Butanone	32.4	ug/L	BDL		40.0	81	67 --- 110	3	29
2-Chlorotoluene	3.29	ug/L	BDL		4.00	82	61 --- 134	3	20
2-Hexanone	31.6	ug/L	BDL		40.0	79	51 --- 128	5	28
4-Chlorotoluene	3.28	ug/L	BDL		4.00	82	65 --- 129	3	22
4-Methyl-2-pentanone	32.3	ug/L	BDL		40.0	81	55 --- 125	1	29
Acetone	26.5	ug/L	BDL		40.0	66	41 --- 101	3	39
Benzene	3.36	ug/L	0.034		4.00	83	71 --- 120	0	17
Bromobenzene	3.18	ug/L	BDL		4.00	80	63 --- 129	2	20
Bromochloromethane	3.21	ug/L	BDL		4.00	80	69 --- 113	3	22
Bromodichloromethane	3.14	ug/L	BDL		4.00	78	66 --- 119	5	20
Bromofluorobenzene	97.0	% Recovery			100	97.0	75 --- 124		7
Bromoform	3.03	ug/L	BDL		4.00	76	57 --- 116	2	28
Bromomethane	1.14	ug/L	BDL		4.00	28	11 --- 144	20	34
Carbon disulfide	7.55	ug/L	BDL		8.00	94	62 --- 136	0	31
Carbon tetrachloride	3.60	ug/L	BDL		4.00	90	80 --- 133	4	20
Chlorobenzene	3.26	ug/L	BDL		4.00	82	69 --- 120	2	21
Chloroethane	3.44	ug/L	BDL		4.00	86	61 --- 129	1	26
Chloroform	3.23	ug/L	BDL		4.00	81	64 --- 121	2	18
Chloromethane	3.27	ug/L	0.18		4.00	77	58 --- 120	4	21

Matrix Spike Duplicate Water

Analytical Run #:	157886	Analysis Date:	02/15/2019	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	245844	Analysis Time:	18:21	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	244094	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	3.53	ug/L	0.27		4.00	82	71 --- 117	2	21
cis-1,3-Dichloropropene	3.06	ug/L	BDL		4.00	76	66 --- 116	1	21
d8-Toluene	101	% Recovery			100	101	94 --- 105		7
Dibromochloromethane	3.08	ug/L	BDL		4.00	77	64 --- 115	3	23
Dibromofluoromethane	100	% Recovery			100	100	90 --- 108		7
Dibromomethane	3.30	ug/L	BDL		4.00	82	68 --- 111	0	21
Dichlorodifluoromethane	3.72	ug/L	BDL		4.00	93	68 --- 141	0	22
Diisopropyl ether	3.24	ug/L	BDL		4.00	81	57 --- 129	1	27
Ethylbenzene	3.39	ug/L	BDL		4.00	85	70 --- 128	2	24
Hexachlorobutadiene	3.37	ug/L	BDL		4.00	84	57 --- 146	1	30
Isopropylbenzene	3.39	ug/L	BDL		4.00	85	72 --- 131	3	24
m & p-Xylene	6.55	ug/L	BDL		8.00	82	70 --- 128	4	28
Methyl tert-butyl ether	3.30	ug/L	BDL		4.00	82	60 --- 116	0	33
Methylene chloride	0.0500	ug/L	BDL	U	4.00	0	29 --- 139	0	36
n-Butylbenzene	3.44	ug/L	BDL		4.00	86	67 --- 136	1	24
n-Propylbenzene	3.43	ug/L	BDL		4.00	86	64 --- 143	3	23
Naphthalene	3.21	ug/L	BDL		4.00	80	58 --- 122	1	31
o-Xylene	3.25	ug/L	BDL		4.00	81	71 --- 123	3	26
p-Isopropyltoluene	3.45	ug/L	BDL		4.00	86	71 --- 135	2	27
sec-Butylbenzene	3.50	ug/L	BDL		4.00	88	71 --- 137	1	23
Styrene	3.26	ug/L	BDL		4.00	82	70 --- 125	4	40
tert-Butylbenzene	3.42	ug/L	BDL		4.00	86	70 --- 133	4	22
Tetrachloroethene	3.41	ug/L	BDL		4.00	85	75 --- 127	2	21
Tetrahydrofuran	29.3	ug/L	BDL		40.0	73	48 --- 111	0	28
Toluene	3.32	ug/L	BDL		4.00	83	71 --- 120	3	19
trans-1,2-Dichloroethene	3.40	ug/L	BDL		4.00	85	72 --- 121	3	28
trans-1,3-Dichloropropene	2.92	ug/L	BDL		4.00	73	69 --- 109	1	21
Trichloroethene	3.32	ug/L	0.052		4.00	82	73 --- 118	3	19
Trichlorofluoromethane	3.73	ug/L	BDL		4.00	93	75 --- 134	2	23
Vinyl acetate	32.9	ug/L	BDL		40.0	82	55 --- 127	1	25
Vinyl chloride	3.80	ug/L	0.25		4.00	89	61 --- 130	2	21

Matrix Spike Water

Analytical Run #:	157886	Analysis Date:	02/15/2019	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	244094	Analysis Time:	17:53	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	240183	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.23	ug/L	BDL		4.00	81	67 --- 122		21
1,1,1-Trichloroethane	3.45	ug/L	BDL		4.00	86	69 --- 128		20
1,1,2,2-Tetrachloroethane	3.06	ug/L	BDL		4.00	76	54 --- 130		22
1,1,2-Trichloroethane	3.28	ug/L	BDL		4.00	82	67 --- 116		25
1,1-Dichloroethane	3.36	ug/L	BDL		4.00	84	64 --- 124		25
1,1-Dichloroethene	3.69	ug/L	BDL		4.00	92	70 --- 130		24
1,1-Dichloropropene	3.51	ug/L	BDL		4.00	88	74 --- 127		21
1,2 Dichloroethane-d4	110	% Recovery		S	100	110	86 --- 106		7
1,2,3-Trichlorobenzene	3.45	ug/L	BDL		4.00	86	56 --- 134		31
1,2,3-Trichloropropane	2.71	ug/L	BDL		4.00	68	54 --- 117		26
1,2,4-Trichlorobenzene	3.47	ug/L	BDL		4.00	87	56 --- 133		29
1,2,4-Trimethylbenzene	3.41	ug/L	BDL		4.00	85	63 --- 132		36
1,2-Dibromo-3-chloropropane	3.13	ug/L	BDL		4.00	78	48 --- 121		34
1,2-Dibromoethane	3.14	ug/L	BDL		4.00	78	66 --- 114		22
1,2-Dichlorobenzene	3.20	ug/L	BDL		4.00	80	63 --- 124		23
1,2-Dichloroethane	3.13	ug/L	BDL		4.00	78	60 --- 117		21
1,2-Dichloropropane	3.24	ug/L	BDL		4.00	81	67 --- 121		19
1,3,5-Trimethylbenzene	3.35	ug/L	BDL		4.00	84	68 --- 130		34
1,3-Dichlorobenzene	3.35	ug/L	BDL		4.00	84	66 --- 126		22
1,3-Dichloropropane	3.24	ug/L	BDL		4.00	81	67 --- 114		23
1,4-Dichlorobenzene	3.28	ug/L	BDL		4.00	82	65 --- 125		22
1,4-Dioxane	159	ug/L	BDL		200	80	19 --- 208		20
2,2-Dichloropropane	3.12	ug/L	BDL		4.00	78	57 --- 136		21
2-Butanone	31.4	ug/L	BDL		40.0	78	67 --- 110		29
2-Chlorotoluene	3.38	ug/L	BDL		4.00	84	61 --- 134		20
2-Hexanone	33.1	ug/L	BDL		40.0	83	51 --- 128		28
4-Chlorotoluene	3.37	ug/L	BDL		4.00	84	65 --- 129		22
4-Methyl-2-pentanone	32.5	ug/L	BDL		40.0	81	55 --- 125		29
Acetone	27.2	ug/L	BDL		40.0	68	41 --- 101		39
Benzene	3.36	ug/L	0.034		4.00	83	71 --- 120		17
Bromobenzene	3.23	ug/L	BDL		4.00	81	63 --- 129		20
Bromochloromethane	3.30	ug/L	BDL		4.00	82	69 --- 113		22
Bromodichloromethane	3.31	ug/L	BDL		4.00	83	66 --- 119		20
Bromofluorobenzene	100	% Recovery			100	100	75 --- 124		7
Bromoform	3.07	ug/L	BDL		4.00	77	57 --- 116		28
Bromomethane	0.927	ug/L	BDL		4.00	23	11 --- 144		34
Carbon disulfide	7.51	ug/L	BDL		8.00	94	62 --- 136		31
Carbon tetrachloride	3.45	ug/L	BDL		4.00	86	80 --- 133		20
Chlorobenzene	3.31	ug/L	BDL		4.00	83	69 --- 120		21
Chloroethane	3.50	ug/L	BDL		4.00	88	61 --- 129		26
Chloroform	3.29	ug/L	BDL		4.00	82	64 --- 121		18
Chloromethane	3.14	ug/L	0.18		4.00	74	58 --- 120		21

Matrix Spike Water

Analytical Run #:	157886	Analysis Date:	02/15/2019	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	244094	Analysis Time:	17:53	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	240183	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	3.60	ug/L	0.27		4.00	83	71 --- 117		21
cis-1,3-Dichloropropene	3.10	ug/L	BDL		4.00	78	66 --- 116		21
d8-Toluene	101	% Recovery			100	101	94 --- 105		7
Dibromochloromethane	3.16	ug/L	BDL		4.00	79	64 --- 115		23
Dibromofluoromethane	101	% Recovery			100	101	90 --- 108		7
Dibromomethane	3.30	ug/L	BDL		4.00	82	68 --- 111		21
Dichlorodifluoromethane	3.73	ug/L	BDL		4.00	93	68 --- 141		22
Diisopropyl ether	3.27	ug/L	BDL		4.00	82	57 --- 129		27
Ethylbenzene	3.44	ug/L	BDL		4.00	86	70 --- 128		24
Hexachlorobutadiene	3.41	ug/L	BDL		4.00	85	57 --- 146		30
Isopropylbenzene	3.50	ug/L	BDL		4.00	88	72 --- 131		24
m & p-Xylene	6.85	ug/L	BDL		8.00	86	70 --- 128		28
Methyl tert-butyl ether	3.29	ug/L	BDL		4.00	82	60 --- 116		33
Methylene chloride	0.0500	ug/L	BDL	U	4.00	0	29 --- 139		36
n-Butylbenzene	3.49	ug/L	BDL		4.00	87	67 --- 136		24
n-Propylbenzene	3.54	ug/L	BDL		4.00	88	64 --- 143		23
Naphthalene	3.25	ug/L	BDL		4.00	81	58 --- 122		31
o-Xylene	3.37	ug/L	BDL		4.00	84	71 --- 123		26
p-Isopropyltoluene	3.52	ug/L	BDL		4.00	88	71 --- 135		27
sec-Butylbenzene	3.55	ug/L	BDL		4.00	89	71 --- 137		23
Styrene	3.39	ug/L	BDL		4.00	85	70 --- 125		40
tert-Butylbenzene	3.54	ug/L	BDL		4.00	88	70 --- 133		22
Tetrachloroethene	3.49	ug/L	BDL		4.00	87	75 --- 127		21
Tetrahydrofuran	29.4	ug/L	BDL		40.0	74	48 --- 111		28
Toluene	3.42	ug/L	BDL		4.00	86	71 --- 120		19
trans-1,2-Dichloroethene	3.49	ug/L	BDL		4.00	87	72 --- 121		28
trans-1,3-Dichloropropene	2.95	ug/L	BDL		4.00	74	69 --- 109		21
Trichloroethene	3.41	ug/L	0.052		4.00	84	73 --- 118		19
Trichlorofluoromethane	3.81	ug/L	BDL		4.00	95	75 --- 134		23
Vinyl acetate	33.4	ug/L	BDL		40.0	84	55 --- 127		25
Vinyl chloride	3.74	ug/L	0.25		4.00	87	61 --- 130		21

Sample Condition Report

Folder #: 142766	Print Date / Time: 02/07/2019 11:48
Client: TETRA TECH	Received Date / Time / By: 02/07/2019 11:00 DJL
Project Name: RIPON FF/NN LANDFILL	Log-In Date / Time / By: 02/07/2019 11:47 JLS
Project Phase: RIPON, WI	Project #: 117-2202061.01 PM: BMS
Coolers: 6223	Temperature: 1.1 C On Ice: Y
Custody Seals Present : Y	COC Present?: Y Complete?: Y
Seal Intact? Y	Numbers: NONE
Ship Method: FEDEX EXPRESS	Tracking Number: 774409923542
Adequate Packaging: Y	Temp Blank Enclosed? Y

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
240179 MW-3A	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
240180 MW-3B	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
240181 P-113A	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
240182 P-113B	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
240183 P-103D	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

VOA HCL 1 / VOC
Total # of Containers of Type (VOA HCL) = 4

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
240184 P-107D	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
240185 P-111D	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
240186 P-117	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
240187 P-118	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
240188 P-114	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
240189 P-114-DUP	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
240190 P-115	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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240191 P-116

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type (VOA HCL) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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240192 TRIP BLANK

Trip Blank	1	/	VOC
Trip Blank	1	/	VOC
Trip Blank	1	/	VOC
Total # of Containers of Type (Trip Blank) = 3			

<u>Condition Code</u>	<u>Condition Description</u>
1	Sample Received OK

Company: Tetra Tech
 Project Contact: Ashley Wagner
 Telephone: (262)719-5242
 Project Name: Ripon FF/NN Landfill
 Project #: 117-2202061.01
 Location: Ripon, WI
 Sampled By: Ashley Wagner

CT LABORATORIES
 Folder #: 142766
 Company: TETRA TECH
 Project: RIPON FF/NN LANDFILL
 Logged By: JLS PM BM

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com
 gram:
 RCRA SDWA NPDES
 Waste Other _____

Report To: ashley.wagner@tetrattech.com
 EMAIL: mike.noel@tetrattech.com
 Company: cliveris@cityofripon.com
 Address: lrich@cityofripon.com
 jtracy@geosyntec.com
 Invoice To:*
 EMAIL: ashley.wagner@tetrattech.com
 Company: Tetra Tech
 Address: 175 N. Corporate Dr. Suite 100
 Brookfield, WI 53045

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Please provide GEMS data package with results

ANALYSES REQUESTED

Filtered? Y/N	VOC 88160 Low Level																							

Turnaround Time
 Normal RUSH*
 Date Needed: Standard
 Rush analysis requires prior
 CT Laboratories' approval
 Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	Fill in Spaces with Bottles per Test																	CT Lab ID # Lab use only		
Date	Time																									
2-5-19	12:05	GW	Grab		MW-3A	N	3																			240179
2-5-19	12:10				MW-3B	N	3																			240180
2-5-19	13:50				P-113A	N	3																			240181
2-5-19	14:00				P-113B	N	3																			240182
2-5-19	10:30				P-103D	N	3																			240183
2-5-19	11:05				P-107D	N	3																			240184
2-5-19	11:30				P-111D	N	3																			240185
2-5-19	12:45				P-117	N	3																			240186
2-5-19	13:10				P-118	N	3																			240187
2-5-19	15:30				P-114	N	3																			240188
2-5-19	15:25				P-114-Dup	N	3																			240189
2-5-19	15:50				P-115	N	3																			240190

Relinquished By: *Mike Rykowski*
 Received by: _____

Date/Time: 2-6-19 / 17:00
 Date/Time: _____

Received By: *[Signature]*
 Received for Laboratory by: *[Signature]*

Date/Time: 2/7/19 11:47
 Date/Time: 2/7/19 11:00

Lab Use Only
 Ice Present Yes No
 Temp 11 IR Gun 22
 Cooler # B223

Company: Tetra Tech
 Project Contact: Ashley Wagner
 Telephone: (262)719-5242
 Project Name: Ripon FF/NN Landfill
 Project #: 117-2202061.01
 Location: Ripon, WI
 Sampled By: Ashley Wagner

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Report To: ashley.wagner@tetrattech.com
 EMAIL: mike.noel@tetrattech.com
 Company: cliveris@cityofripon.com
 Address: Irich@cityofripon.com
 jtracy@geosyntec.com
 Invoice To:*
 EMAIL: ashley.wagner@tetrattech.com
 Company: Tetra Tech
 Address: 175 N. Corporate Dr. Suite 100
 Brookfield, WI 53045

Lab Use Only
 Place Header Sticker Here:

142764

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____
 PO # _____

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions
 Please provide GEMS data package with results

Filtered? Y/N	ANALYSES REQUESTED												Total # Containers	Designated MS/MSD	
	VOC	SVOC	LA	Level											
N															

Turnaround Time
 Normal RUSH*
 Date Needed: Standard
 Rush analysis requires prior
 CT Laboratories' approval
 Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	Fill in Spaces with Bottles per Test												CT Lab ID # Lab use only
Date	Time																		
3-5-19	14:50	GW	Grab		P-116	N	3										240191		
-	-	GW	Grab		Trip Blank	N	3										240192 lab prepared		

Relinquished By: <i>[Signature]</i>	Date/Time 2-6-19 11:00	Received By: <i>[Signature]</i>	Date/Time 2/7/19 11:47	Lab Use Only Ice Present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received by:	Date/Time	Received for Laboratory by:	Date/Time 2/7/19 11:20	Temp <u>6.1</u> IR Gun <u>22</u> Cooler # <u>6223</u>

CT Laboratories Terms and Conditions

Where a purchaser (Client) places an order for laboratory, consulting or sampling services from CT Laboratories (CTL), CTL shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes an acceptance by the Client of CTL's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by CTL in advance of the start of the project and in writing.

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

- 1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submitting a purchase order to CTL in writing, by telephone (confirmed in writing) or by negotiated contract. Whichever option the Client selects for placing the Order, the Order shall not be valid unless it contains sufficient information to enable CTL to carry out the Client's requirements. It is the policy of CTL that samples not meeting the acceptance criteria, outlined in the NELAC standards and Section 5.8.3.2 of the DOD QSM, will not be accepted by the laboratory or will be qualified on the final report. All samples submitted to the laboratory must: (a) be accompanied by proper, full and complete documentation, including sample identification, location, date and time of collection, the collector's name, type of preservation (if any), type of sample, any special comments concerning the sample and any additional pertinent fields on the chain-of-custody. In the absence of any of the required information, the laboratory will attempt to contact the client to obtain the information; if unable to obtain the necessary information, the final report will be qualified. (b) samples must be labeled appropriately with a unique sample identification written with indelible ink on water resistant labels. If the laboratory cannot determine the identity of a sample, it may be rejected and the client will be contacted for further instructions or resampling. (c) samples must be in an appropriate sample container. If the container is inappropriate, the client will be contacted for further instructions or resampling. If analysis is possible, the final report will be qualified. CTL can provide a sampling guide containing approved containers and preservations for analytical methods requested. (d) adhere to method specified holding times. If samples are received with less than 1/2 the holding time remaining for the requested test, CTL will make its best effort to analyze the samples and notify the client. If holding times are exceeded, the final report will be qualified. (e) contain adequate sample volume to perform the necessary testing. If sufficient volume is not present, the sample may be rejected and the client will be contacted for further instructions or resampling. If samples show signs of damage, contamination or inadequate preservation, the client will be notified. If analysis can be performed, the final report will be qualified. If not, the samples will be rejected and the client notified for further instructions or resampling. It is the Client's responsibility to understand and package samples correctly and provide the proper amount of temperature control (ice) suitable to current weather conditions.
- 1.2 CTL must be supplied with complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.
- 1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Client. In no event will CTL have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from CTL's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to CTL's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.
- 1.4 Clients using CTL's shipping account(s) do so at their own risk and must purchase separate insurance if they do not wish to assume risk of loss. CTL will not assume any risk whatsoever for any samples outside of CTL's control and not successfully delivered to the laboratory within specified hold times.
- 1.5 CTL will not accept liability for any sample(s), except sample(s) damaged or broken by log-in staff prior to successful log-in of the sample(s) into the CTL-LIMS system. This includes, but may not be limited to: complete, valid COC documentation, all sample receiving issues being resolved from a delay caused by the Client in CTL's ability to log-in samples, including missed turnaround and hold times, delay in processing and, ultimately, additional charges to the Client.
- 1.6 CTL will only reject samples per directions from the Client. CTL's sole liability is to inform the Client of any sample receipt issues, and may provide an indication how proceeding with the analysis may affect results and final acceptance by the regulating agency. Ultimately, suitability for use is between the Client and the regulating agency(s).
- 1.7 Signing of this COC by the Client or Client's representative, or directions to CTL via email or Fax constitutes acceptance of these Terms and Conditions, and guarantees payment by the Client to CTL.

2. PAYMENT TERMS

- 2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by CTL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) or the maximum rate permissible by law, per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. CTL reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

- 3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. CTL will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in writing.
- 3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.
- 3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of these Terms and Conditions. CTL will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

- 4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test methods. CTL has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Client may request that CTL perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, CTL will proceed with analyses under its standard Quality Manuals then in effect, and CTL will not be responsible for any resampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.
- 4.2 CTL shall start preparation and/or analysis within holding times provided that Sample Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Samples received that do not meet this provision will be charged as expedited samples and the appropriate rate will be added accordingly. Where resolution of inconsistencies leading to Sample Acceptance does not occur within this period, CTL will use its best efforts to meet holding times and will proceed with the work provided that, in CTL's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.
- 4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Client in writing of any decertification or revocation of any license, or notice of either, which affects work in progress.
- 4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way.
- 4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL, will be limited to repeating any services performed, contingent on the Client's providing, at the request of CTL and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating Results consistent with the original Results will be at the Client's expense. If resampling is necessary, CTL's liability for resampling costs will be limited to actual cost or one hundred or one hundred fifty dollars (\$150) per sample, whichever is less.
- 4.6 CTL's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.
- 4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond CTL's reasonable control.

5. RESULTS, WORK PRODUCT

- 5.1 Data or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by CTL for performance of work will be retained by CTL, and Client shall not disclose such information to any third party.
- 5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by CTL shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay CTL for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.
- 5.3 Should the Results delivered by CTL be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold CTL's right to independently defend its data.
- 5.4 CTL reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in CTL's sole judgment, it is reasonably necessary, appropriate or advisable to do so, and with the Client's permission. CTL will in no way be liable for any subcontracted services and all applicable warranties, guarantees and insurance are those of the subcontracted laboratory.
- 5.5 CTL shall dispose of the Client's samples and extracts 30 days after the analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable Federal, state or local requirements. Additional charges will apply for samples or extracts stored longer than 30 days at the Client's request. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at Client expense. CTL reserves the right to return to the Client any sample or unused portion of a sample that is not within CTL's permitted capability or the capabilities of CTL's designated waste disposal vendor(s), or will make arrangements to dispose of these samples at Client direction and expense.
- 5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL agrees to retain all records for five (5) years.
- 5.7 In the event that CTL is required to respond to legal process related to services for Client, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation.

6. INSURANCE

- 6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work. CTL shall also maintain during such period, Comprehensive General and Contractual Liability (limit of \$2,000,000 per occurrence/aggregate), Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of \$5,000,000 per occurrence/aggregate). Any Client required changes to these limits or conditions will result in a change in cost to the Client.

7. AUDIT

- 7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Client, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices.

ORIGIN ID: RRLA (262) 792-1282
ASHLEY WAGNER
TEIRA TECH
175 N CORPORATE DRIVE
STE. 100
BROOKFIELD, WI 53045
UNITED STATES US

SHIP DATE: 06FEB19
ACTWGT: 27.00 LB
CAD: 1104355/NET4100
BILL SENDER

TO BRETT SZYMANSKI
CT LABORATORIES
1230 LANGE COURT

BARABOO WI 53913
(608) 356-2766
REF: 117202036 01
DEPT



TRK# 7744 0992 3542
0201

THU - 07 FEB 10:30A
PRIORITY OVERNIGHT

55 MSNA

WI-US MSN 53913



56520E3D034D

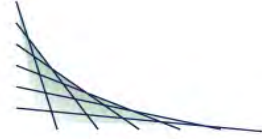
After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Ice Present Yes No
 Temperature 1.1
 Initials X
 Date 2/7/19 Time 10:55
 Cooler # 6223



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

ANALYTICAL REPORT

TRC ENVIRONMENTAL
 JAMES WEDEKIND
 708 HEARTLAND TRAIL
 SUITE 3000
 MADISON, WI 53717

Project Name: RIPON FF/NN LANDFILL
 Project Phase: RIPON, WI
 Project #: 327275.0001.0002
 Folder #: 145294
 Purchase Order #: 138000
 Contract #: 3276

Page 1 of 83
 Arrival Temperature: 3.4
 Report Date: 06/10/2019
 Date Received: 05/24/2019
 Reprint Date: 06/11/2019

Copy: mstollenwerk@trccompanies.com

CT LAB#: 286279	Sample Description: P-107D	License/Well #: 00467/119	Sampled: 05/21/2019 0900
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	29	mg/L	0.80	2.5	1			05/31/2019 15:55	TMG	EPA 9056A
Metals Results										
Total Manganese	227	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 17:00	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 22:53	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 22:53	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/02/2019 22:53	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/02/2019 22:53	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 22:53	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/02/2019 22:53	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/02/2019 22:53	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 22:53	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/02/2019 22:53	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 22:53	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 22:53	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/02/2019 22:53	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286279 Sample Description: P-107D

License/Well #: 00467/119

Sampled: 05/21/2019 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/02/2019 22:53	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 22:53	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/02/2019 22:53	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/02/2019 22:53	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/02/2019 22:53	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 22:53	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/02/2019 22:53	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 22:53	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/02/2019 22:53	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/02/2019 22:53	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/02/2019 22:53	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/02/2019 22:53	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/02/2019 22:53	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/02/2019 22:53	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/02/2019 22:53	RLD	EPA 8260C
Acetone	0.87	ug/L	0.30 *	1.0	1	B		06/02/2019 22:53	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/02/2019 22:53	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 22:53	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/02/2019 22:53	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/02/2019 22:53	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/02/2019 22:53	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/02/2019 22:53	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/02/2019 22:53	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/02/2019 22:53	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 22:53	RLD	EPA 8260C
Chloroethane	1.3	ug/L	0.070	0.23	1			06/02/2019 22:53	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/02/2019 22:53	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286279 Sample Description: P-107D

License/Well #: 00467/119

Sampled: 05/21/2019 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 22:53	RLD	EPA 8260C
cis-1,2-Dichloroethene	1.7	ug/L	0.070	0.23	1			06/02/2019 22:53	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/02/2019 22:53	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/02/2019 22:53	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 22:53	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 22:53	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/02/2019 22:53	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 22:53	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/02/2019 22:53	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 22:53	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/02/2019 22:53	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/02/2019 22:53	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/02/2019 22:53	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/02/2019 22:53	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 22:53	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/02/2019 22:53	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/02/2019 22:53	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/02/2019 22:53	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/02/2019 22:53	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/02/2019 22:53	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/02/2019 22:53	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/02/2019 22:53	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/02/2019 22:53	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/02/2019 22:53	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/02/2019 22:53	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/02/2019 22:53	RLD	EPA 8260C
Trichloroethene	0.12	ug/L	0.050 *	0.17	1			06/02/2019 22:53	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286279 Sample Description: P-107D

License/Well #: 00467/119

Sampled: 05/21/2019 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/02/2019 22:53	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/02/2019 22:53	RLD	EPA 8260C
Vinyl chloride	5.2	ug/L	0.019	0.064	1			06/02/2019 22:53	RLD	EPA 8260C
1,2 Dichloroethane-d4	106	% Recovery	86.0	106	1			06/02/2019 22:53	RLD	EPA 8260C
Bromofluorobenzene	97	% Recovery	75.0	124	1			06/02/2019 22:53	RLD	EPA 8260C
d8-Toluene	98	% Recovery	94.0	105	1			06/02/2019 22:53	RLD	EPA 8260C
Dibromofluoromethane	101	% Recovery	94.0	105	1			06/02/2019 22:53	RLD	EPA 8260C

CT LAB#: 286282 Sample Description: P-107

License/Well #: 00467/118

Sampled: 05/21/2019 1010

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	84	mg/L	4.0	13	5			06/03/2019 10:53	TMG	EPA 9056A
Metals Results										
Total Manganese	148	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 17:25	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:22	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 23:22	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/02/2019 23:22	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/02/2019 23:22	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 23:22	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/02/2019 23:22	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/02/2019 23:22	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:22	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/02/2019 23:22	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 23:22	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 23:22	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/02/2019 23:22	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/02/2019 23:22	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:22	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/02/2019 23:22	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/02/2019 23:22	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/02/2019 23:22	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:22	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:22	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:22	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/02/2019 23:22	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286282 Sample Description: P-107

License/Well #: 00467/118

Sampled: 05/21/2019 1010

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/02/2019 23:22	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/02/2019 23:22	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/02/2019 23:22	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/02/2019 23:22	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/02/2019 23:22	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/02/2019 23:22	RLD	EPA 8260C
Acetone	0.60	ug/L	0.30 *	1.0	1	B		06/02/2019 23:22	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/02/2019 23:22	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 23:22	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/02/2019 23:22	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/02/2019 23:22	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/02/2019 23:22	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/02/2019 23:22	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/02/2019 23:22	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/02/2019 23:22	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 23:22	RLD	EPA 8260C
Chloroethane	0.081	ug/L	0.070 *	0.23	1			06/02/2019 23:22	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/02/2019 23:22	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:22	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.28	ug/L	0.070	0.23	1			06/02/2019 23:22	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/02/2019 23:22	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/02/2019 23:22	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 23:22	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 23:22	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/02/2019 23:22	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 23:22	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/02/2019 23:22	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286282 Sample Description: P-107

License/Well #: 00467/118

Sampled: 05/21/2019 1010

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Trichloroethene	0.074	ug/L	0.050 *	0.17	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Vinyl chloride	0.95	ug/L	0.019	0.064	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
1,2 Dichloroethane-d4	98	% Recovery	86.0	106	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	75.0	124	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1		06/02/2019 23:22	23:22	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	94.0	105	1		06/02/2019 23:22	23:22	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286283 Sample Description: MW-107 License/Well #: 00467/117 Sampled: 05/21/2019 1046

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	18	mg/L	0.80	2.5	1			05/31/2019 16:33	TMG	EPA 9056A
Metals Results										
Total Manganese	40.8	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 17:49	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:50	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 23:50	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/02/2019 23:50	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/02/2019 23:50	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 23:50	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/02/2019 23:50	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/02/2019 23:50	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:50	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/02/2019 23:50	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 23:50	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 23:50	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/02/2019 23:50	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/02/2019 23:50	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:50	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/02/2019 23:50	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/02/2019 23:50	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/02/2019 23:50	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:50	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:50	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 23:50	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/02/2019 23:50	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286283 Sample Description: MW-107

License/Well #: 00467/117

Sampled: 05/21/2019 1046

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/02/2019 23:50	RLD	EPA 8260C	
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/02/2019 23:50	RLD	EPA 8260C	
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/02/2019 23:50	RLD	EPA 8260C	
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/02/2019 23:50	RLD	EPA 8260C	
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/02/2019 23:50	RLD	EPA 8260C	
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/02/2019 23:50	RLD	EPA 8260C	
Acetone	1.3	ug/L	0.30	1.0	1	B	06/02/2019 23:50	RLD	EPA 8260C	
Benzene	<0.018	ug/L	0.018	0.059	1		06/02/2019 23:50	RLD	EPA 8260C	
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/02/2019 23:50	RLD	EPA 8260C	
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/02/2019 23:50	RLD	EPA 8260C	
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/02/2019 23:50	RLD	EPA 8260C	
Bromoform	<0.040	ug/L	0.040	0.12	1		06/02/2019 23:50	RLD	EPA 8260C	
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z	06/02/2019 23:50	RLD	EPA 8260C	
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		06/02/2019 23:50	RLD	EPA 8260C	
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/02/2019 23:50	RLD	EPA 8260C	
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/02/2019 23:50	RLD	EPA 8260C	
Chloroethane	<0.070	ug/L	0.070	0.23	1		06/02/2019 23:50	RLD	EPA 8260C	
Chloroform	<0.030	ug/L	0.030	0.11	1		06/02/2019 23:50	RLD	EPA 8260C	
Chloromethane	<0.040	ug/L	0.040	0.13	1		06/02/2019 23:50	RLD	EPA 8260C	
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1		06/02/2019 23:50	RLD	EPA 8260C	
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/02/2019 23:50	RLD	EPA 8260C	
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/02/2019 23:50	RLD	EPA 8260C	
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/02/2019 23:50	RLD	EPA 8260C	
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/02/2019 23:50	RLD	EPA 8260C	
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/02/2019 23:50	RLD	EPA 8260C	
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/02/2019 23:50	RLD	EPA 8260C	
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/02/2019 23:50	RLD	EPA 8260C	

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286283 Sample Description: MW-107

License/Well #: 00467/117

Sampled: 05/21/2019 1046

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
1,2 Dichloroethane-d4	96	% Recovery	86.0	106	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Bromofluorobenzene	99	% Recovery	75.0	124	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1		06/02/2019 23:50	23:50	RLD	EPA 8260C
Dibromofluoromethane	101	% Recovery	94.0	105	1		06/02/2019 23:50	23:50	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286284 Sample Description: P113A License/Well #: 00467/136 Sampled: 05/21/2019 1213

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	11	mg/L	0.80	2.5	1			05/31/2019 16:53	TMG	EPA 9056A
Metals Results										
Total Manganese	10.6	ug/L	3.4 *	11	1		05/28/2019 11:09	05/30/2019 17:56	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:18	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 00:18	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 00:18	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 00:18	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 00:18	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 00:18	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 00:18	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:18	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 00:18	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 00:18	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 00:18	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 00:18	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 00:18	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:18	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 00:18	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 00:18	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 00:18	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:18	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:18	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:18	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 00:18	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286284 Sample Description: P113A

License/Well #: 00467/136

Sampled: 05/21/2019 1213

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 00:18	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 00:18	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 00:18	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 00:18	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 00:18	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 00:18	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/03/2019 00:18	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 00:18	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 00:18	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 00:18	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 00:18	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 00:18	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 00:18	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/03/2019 00:18	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 00:18	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 00:18	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 00:18	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 00:18	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:18	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/03/2019 00:18	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 00:18	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 00:18	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 00:18	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 00:18	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 00:18	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 00:18	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/03/2019 00:18	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286284 Sample Description: P113A

License/Well #: 00467/136

Sampled: 05/21/2019 1213

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 00:18	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/03/2019 00:18	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/03/2019 00:18	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/03/2019 00:18	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/03/2019 00:18	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:18	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/03/2019 00:18	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/03/2019 00:18	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:18	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 00:18	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/03/2019 00:18	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/03/2019 00:18	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/03/2019 00:18	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/03/2019 00:18	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:18	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/03/2019 00:18	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/03/2019 00:18	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/03/2019 00:18	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/03/2019 00:18	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/03/2019 00:18	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			06/03/2019 00:18	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	86.0	106	1			06/03/2019 00:18	RLD	EPA 8260C
Bromofluorobenzene	98	% Recovery	75.0	124	1			06/03/2019 00:18	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1			06/03/2019 00:18	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	94.0	105	1			06/03/2019 00:18	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286285 Sample Description: P-113B

License/Well #: 00467/138

Sampled: 05/21/2019 1310

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	73	mg/L	4.0	13	5			06/03/2019 11:12	TMG	EPA 9056A
Metals Results										
Total Manganese	36.6	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 18:03	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:46	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 00:46	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 00:46	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 00:46	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 00:46	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 00:46	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 00:46	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:46	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 00:46	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 00:46	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 00:46	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 00:46	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 00:46	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:46	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 00:46	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 00:46	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 00:46	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:46	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:46	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:46	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 00:46	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286285 Sample Description: P-113B

License/Well #: 00467/138

Sampled: 05/21/2019 1310

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 00:46	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 00:46	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 00:46	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 00:46	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 00:46	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 00:46	RLD	EPA 8260C
Acetone	0.33	ug/L	0.30 *	1.0	1	B		06/03/2019 00:46	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 00:46	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 00:46	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 00:46	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 00:46	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 00:46	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 00:46	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/03/2019 00:46	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 00:46	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 00:46	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 00:46	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 00:46	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:46	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/03/2019 00:46	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 00:46	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 00:46	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 00:46	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 00:46	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 00:46	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 00:46	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/03/2019 00:46	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286285 Sample Description: P-113B

License/Well #: 00467/138

Sampled: 05/21/2019 1310

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 00:46	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/03/2019 00:46	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/03/2019 00:46	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/03/2019 00:46	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/03/2019 00:46	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:46	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/03/2019 00:46	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/03/2019 00:46	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:46	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 00:46	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/03/2019 00:46	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/03/2019 00:46	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/03/2019 00:46	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/03/2019 00:46	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 00:46	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/03/2019 00:46	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/03/2019 00:46	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/03/2019 00:46	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/03/2019 00:46	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/03/2019 00:46	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			06/03/2019 00:46	RLD	EPA 8260C
1,2 Dichloroethane-d4	102	% Recovery	86.0	106	1			06/03/2019 00:46	RLD	EPA 8260C
Bromofluorobenzene	99	% Recovery	75.0	124	1			06/03/2019 00:46	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1			06/03/2019 00:46	RLD	EPA 8260C
Dibromofluoromethane	98	% Recovery	94.0	105	1			06/03/2019 00:46	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286286 Sample Description: MW-3A License/Well #: 00467/133 Sampled: 05/21/2019 1443

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	20	mg/L	0.80	2.5	1			05/31/2019 18:10	TMG	EPA 9056A
Metals Results										
Total Manganese	491	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 18:09	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:15	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 01:15	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 01:15	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 01:15	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 01:15	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 01:15	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 01:15	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:15	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 01:15	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 01:15	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 01:15	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 01:15	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 01:15	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:15	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 01:15	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 01:15	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 01:15	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:15	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:15	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:15	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 01:15	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286286 Sample Description: MW-3A

License/Well #: 00467/133

Sampled: 05/21/2019 1443

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 01:15	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 01:15	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 01:15	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 01:15	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 01:15	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 01:15	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/03/2019 01:15	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 01:15	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 01:15	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 01:15	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 01:15	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 01:15	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 01:15	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/03/2019 01:15	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 01:15	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 01:15	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 01:15	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 01:15	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:15	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/03/2019 01:15	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 01:15	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 01:15	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 01:15	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 01:15	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 01:15	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 01:15	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/03/2019 01:15	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286286 Sample Description: MW-3A

License/Well #: 00467/133

Sampled: 05/21/2019 1443

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
1,2 Dichloroethane-d4	103	% Recovery	86.0	106	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Bromofluorobenzene	98	% Recovery	75.0	124	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	94.0	105	1		06/03/2019 01:15	06/03/2019 01:15	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286287 Sample Description: MW-3B License/Well #: 00467/134 Sampled: 05/21/2019 1535

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	67	mg/L	0.80	2.5	1			05/31/2019 18:29	TMG	EPA 9056A
Metals Results										
Total Manganese	75.7	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 18:16	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:43	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 01:43	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 01:43	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 01:43	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 01:43	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 01:43	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 01:43	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:43	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 01:43	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 01:43	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 01:43	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 01:43	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 01:43	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:43	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 01:43	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 01:43	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 01:43	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:43	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:43	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:43	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 01:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286287 Sample Description: MW-3B

License/Well #: 00467/134

Sampled: 05/21/2019 1535

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 01:43	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 01:43	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 01:43	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 01:43	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 01:43	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 01:43	RLD	EPA 8260C
Acetone	0.44	ug/L	0.30 *	1.0	1	B		06/03/2019 01:43	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 01:43	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 01:43	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 01:43	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 01:43	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 01:43	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 01:43	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/03/2019 01:43	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 01:43	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 01:43	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 01:43	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 01:43	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 01:43	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/03/2019 01:43	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 01:43	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 01:43	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 01:43	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 01:43	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 01:43	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 01:43	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/03/2019 01:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286287 Sample Description: MW-3B

License/Well #: 00467/134

Sampled: 05/21/2019 1535

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Vinyl chloride	0.058	ug/L	0.019 *	0.064	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
1,2 Dichloroethane-d4	101	% Recovery	86.0	106	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Bromofluorobenzene	98	% Recovery	75.0	124	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	94.0	105	1		06/03/2019 01:43	06/03/2019 01:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286288 Sample Description: P-117 License/Well #: 00467/144 Sampled: 05/21/2019 1642

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	62	mg/L	0.80	2.5	1			05/31/2019 18:48	TMG	EPA 9056A
Metals Results										
Total Manganese	228	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 18:22	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:11	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 02:11	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 02:11	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 02:11	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 02:11	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 02:11	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 02:11	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:11	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 02:11	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 02:11	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 02:11	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 02:11	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 02:11	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:11	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 02:11	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 02:11	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 02:11	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:11	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:11	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:11	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 02:11	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286288 Sample Description: P-117 License/Well #: 00467/144 Sampled: 05/21/2019 1642

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 02:11	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 02:11	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 02:11	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 02:11	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 02:11	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 02:11	RLD	EPA 8260C
Acetone	0.55	ug/L	0.30 *	1.0	1	B		06/03/2019 02:11	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 02:11	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 02:11	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 02:11	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 02:11	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 02:11	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 02:11	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/03/2019 02:11	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 02:11	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 02:11	RLD	EPA 8260C
Chloroethane	0.32	ug/L	0.070	0.23	1			06/03/2019 02:11	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 02:11	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:11	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.76	ug/L	0.070	0.23	1			06/03/2019 02:11	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 02:11	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 02:11	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 02:11	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 02:11	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 02:11	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 02:11	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/03/2019 02:11	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286288 Sample Description: P-117

License/Well #: 00467/144

Sampled: 05/21/2019 1642

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 02:11	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/03/2019 02:11	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/03/2019 02:11	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/03/2019 02:11	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/03/2019 02:11	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:11	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/03/2019 02:11	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/03/2019 02:11	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:11	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 02:11	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/03/2019 02:11	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/03/2019 02:11	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/03/2019 02:11	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/03/2019 02:11	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:11	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/03/2019 02:11	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/03/2019 02:11	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/03/2019 02:11	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/03/2019 02:11	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/03/2019 02:11	RLD	EPA 8260C
Vinyl chloride	1.2	ug/L	0.019	0.064	1			06/03/2019 02:11	RLD	EPA 8260C
1,2 Dichloroethane-d4	103	% Recovery	86.0	106	1			06/03/2019 02:11	RLD	EPA 8260C
Bromofluorobenzene	97	% Recovery	75.0	124	1			06/03/2019 02:11	RLD	EPA 8260C
d8-Toluene	100	% Recovery	94.0	105	1			06/03/2019 02:11	RLD	EPA 8260C
Dibromofluoromethane	101	% Recovery	94.0	105	1			06/03/2019 02:11	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286289 Sample Description: P-118 License/Well #: 00467/145 Sampled: 05/21/2019 1729

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	22	mg/L	0.80	2.5	1			05/31/2019 19:07	TMG	EPA 9056A
Metals Results										
Total Manganese	118	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 18:29	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:39	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 02:39	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 02:39	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 02:39	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 02:39	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 02:39	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 02:39	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:39	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 02:39	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 02:39	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 02:39	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 02:39	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 02:39	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:39	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 02:39	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 02:39	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 02:39	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:39	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:39	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:39	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 02:39	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286289 Sample Description: P-118

License/Well #: 00467/145

Sampled: 05/21/2019 1729

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 02:39	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 02:39	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 02:39	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 02:39	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 02:39	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 02:39	RLD	EPA 8260C
Acetone	0.57	ug/L	0.30 *	1.0	1	B		06/03/2019 02:39	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 02:39	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 02:39	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 02:39	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 02:39	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 02:39	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 02:39	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/03/2019 02:39	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 02:39	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 02:39	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 02:39	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 02:39	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 02:39	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/03/2019 02:39	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 02:39	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 02:39	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 02:39	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 02:39	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 02:39	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 02:39	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/03/2019 02:39	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286289 Sample Description: P-118

License/Well #: 00467/145

Sampled: 05/21/2019 1729

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Naphthalene	0.044	ug/L	0.030 *	0.10	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Toluene	0.040	ug/L	0.040 *	0.13	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Vinyl chloride	0.057	ug/L	0.019 *	0.064	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
1,2 Dichloroethane-d4	102	% Recovery	86.0	106	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Bromofluorobenzene	99	% Recovery	75.0	124	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
d8-Toluene	98	% Recovery	94.0	105	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	94.0	105	1		06/03/2019 02:39	06/03/2019 02:39	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286290 Sample Description: LC-1 License/Well #: 00467/301 Sampled: 05/21/2019 1800

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	1.7	mg/L	0.80 *	2.5	1			06/03/2019 12:09	TMG	EPA 9056A
Metals Results										
Total Manganese	26200	ug/L	6.8	23	1	M,Y	05/28/2019 11:09	05/30/2019 20:36	NAH	EPA 6010C
Organic Results										
Qualifiers applying to all Analytes of Method EPA 8260C: T										
1,1,1,2-Tetrachloroethane	<12	ug/L	12	38	20			06/01/2019 18:45	RLD	EPA 8260C
1,1,1-Trichloroethane	<10	ug/L	10	36	20			06/01/2019 18:45	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	30	ug/L	14 *	48	20			06/01/2019 18:45	RLD	EPA 8260C
1,1,2-Trichloroethane	<8.0	ug/L	8.0	30	20			06/01/2019 18:45	RLD	EPA 8260C
1,1-Dichloroethane	<6.0	ug/L	6.0	22	20			06/01/2019 18:45	RLD	EPA 8260C
1,1-Dichloroethene	<8.0	ug/L	8.0	30	20			06/01/2019 18:45	RLD	EPA 8260C
1,1-Dichloropropene	<14	ug/L	14	44	20			06/01/2019 18:45	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<16	ug/L	16	52	20			06/01/2019 18:45	RLD	EPA 8260C
1,2,3-Trichloropropane	<12	ug/L	12	38	20			06/01/2019 18:45	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<10	ug/L	10	34	20			06/01/2019 18:45	RLD	EPA 8260C
1,2,4-Trimethylbenzene	110	ug/L	8.0	24	20			06/01/2019 18:45	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<14	ug/L	14	48	20			06/01/2019 18:45	RLD	EPA 8260C
1,2-Dibromoethane	<12	ug/L	12	36	20			06/01/2019 18:45	RLD	EPA 8260C
1,2-Dichlorobenzene	<12	ug/L	12	38	20			06/01/2019 18:45	RLD	EPA 8260C
1,2-Dichloroethane	<5.2	ug/L	5.2	17	20			06/01/2019 18:45	RLD	EPA 8260C
1,2-Dichloropropane	<8.0	ug/L	8.0	28	20			06/01/2019 18:45	RLD	EPA 8260C
1,3,5-Trimethylbenzene	44	ug/L	8.0	26	20			06/01/2019 18:45	RLD	EPA 8260C
1,3-Dichlorobenzene	<10	ug/L	10	36	20			06/01/2019 18:45	RLD	EPA 8260C
1,3-Dichloropropane	<10	ug/L	10	32	20			06/01/2019 18:45	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286290 Sample Description: LC-1

License/Well #: 00467/301

Sampled: 05/21/2019 1800

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
1,4-Dichlorobenzene	<12	ug/L	12	40	20			06/01/2019 18:45	RLD	EPA 8260C
2,2-Dichloropropane	<10	ug/L	10	32	20			06/01/2019 18:45	RLD	EPA 8260C
2-Butanone	<80	ug/L	80	280	20			06/01/2019 18:45	RLD	EPA 8260C
2-Chlorotoluene	<8.0	ug/L	8.0	28	20			06/01/2019 18:45	RLD	EPA 8260C
2-Hexanone	<140	ug/L	140	480	20			06/01/2019 18:45	RLD	EPA 8260C
4-Chlorotoluene	<8.0	ug/L	8.0	30	20			06/01/2019 18:45	RLD	EPA 8260C
4-Methyl-2-pentanone	<120	ug/L	120	380	20			06/01/2019 18:45	RLD	EPA 8260C
Acetone	<180	ug/L	180	600	20			06/01/2019 18:45	RLD	EPA 8260C
Benzene	<4.8	ug/L	4.8	16	20			06/01/2019 18:45	RLD	EPA 8260C
Bromobenzene	<12	ug/L	12	38	20			06/01/2019 18:45	RLD	EPA 8260C
Bromochloromethane	<16	ug/L	16	50	20			06/01/2019 18:45	RLD	EPA 8260C
Bromodichloromethane	<8.0	ug/L	8.0	28	20			06/01/2019 18:45	RLD	EPA 8260C
Bromoform	<14	ug/L	14	46	20			06/01/2019 18:45	RLD	EPA 8260C
Bromomethane	<14	ug/L	14	48	20			06/01/2019 18:45	RLD	EPA 8260C
Carbon disulfide	<10	ug/L	10	32	20			06/01/2019 18:45	RLD	EPA 8260C
Carbon tetrachloride	<10	ug/L	10	32	20			06/01/2019 18:45	RLD	EPA 8260C
Chlorobenzene	<10	ug/L	10	30	20			06/01/2019 18:45	RLD	EPA 8260C
Chloroethane	<10	ug/L	10	32	20			06/01/2019 18:45	RLD	EPA 8260C
Chloroform	<6.0	ug/L	6.0	18	20			06/01/2019 18:45	RLD	EPA 8260C
Chloromethane	<14	ug/L	14	50	20			06/01/2019 18:45	RLD	EPA 8260C
cis-1,2-Dichloroethene	<6.0	ug/L	6.0	20	20			06/01/2019 18:45	RLD	EPA 8260C
cis-1,3-Dichloropropene	<8.0	ug/L	8.0	24	20			06/01/2019 18:45	RLD	EPA 8260C
Dibromochloromethane	<8.0	ug/L	8.0	28	20			06/01/2019 18:45	RLD	EPA 8260C
Dibromomethane	<16	ug/L	16	50	20			06/01/2019 18:45	RLD	EPA 8260C
Dichlorodifluoromethane	<8.0	ug/L	8.0	30	20			06/01/2019 18:45	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286290 Sample Description: LC-1

License/Well #: 00467/301

Sampled: 05/21/2019 1800

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
Diisopropyl ether	<5.8	ug/L	5.8	19	20		06/01/2019 18:45	RLD	EPA 8260C	
Ethylbenzene	29	ug/L	6.0	22	20		06/01/2019 18:45	RLD	EPA 8260C	
Hexachlorobutadiene	<18	ug/L	18	58	20		06/01/2019 18:45	RLD	EPA 8260C	
Isopropylbenzene	11	ug/L	8.0 *	28	20		06/01/2019 18:45	RLD	EPA 8260C	
m & p-Xylene	200	ug/L	10	36	20		06/01/2019 18:45	RLD	EPA 8260C	
Methyl tert-butyl ether	<6.0	ug/L	6.0	22	20		06/01/2019 18:45	RLD	EPA 8260C	
Methylene chloride	<10	ug/L	10	34	20		06/01/2019 18:45	RLD	EPA 8260C	
n-Butylbenzene	<8.0	ug/L	8.0	24	20		06/01/2019 18:45	RLD	EPA 8260C	
n-Propylbenzene	<10	ug/L	10	36	20		06/01/2019 18:45	RLD	EPA 8260C	
Naphthalene	100	ug/L	14	44	20		06/01/2019 18:45	RLD	EPA 8260C	
o-Xylene	8.5	ug/L	8.0 *	28	20		06/01/2019 18:45	RLD	EPA 8260C	
p-Isopropyltoluene	41	ug/L	10	30	20		06/01/2019 18:45	RLD	EPA 8260C	
sec-Butylbenzene	11	ug/L	8.0 *	26	20		06/01/2019 18:45	RLD	EPA 8260C	
Styrene	<10	ug/L	10	34	20		06/01/2019 18:45	RLD	EPA 8260C	
tert-Butylbenzene	<8.0	ug/L	8.0	28	20		06/01/2019 18:45	RLD	EPA 8260C	
Tetrachloroethene	<10	ug/L	10	36	20		06/01/2019 18:45	RLD	EPA 8260C	
Tetrahydrofuran	130	ug/L	60 *	200	20		06/01/2019 18:45	RLD	EPA 8260C	
Toluene	<6.0	ug/L	6.0	22	20		06/01/2019 18:45	RLD	EPA 8260C	
trans-1,2-Dichloroethene	<12	ug/L	12	38	20		06/01/2019 18:45	RLD	EPA 8260C	
trans-1,3-Dichloropropene	<8.0	ug/L	8.0	28	20		06/01/2019 18:45	RLD	EPA 8260C	
Trichloroethene	<6.0	ug/L	6.0	20	20		06/01/2019 18:45	RLD	EPA 8260C	
Trichlorofluoromethane	<6.0	ug/L	6.0	22	20		06/01/2019 18:45	RLD	EPA 8260C	
Vinyl acetate	<60	ug/L	60	220	20		06/01/2019 18:45	RLD	EPA 8260C	
Vinyl chloride	<3.8	ug/L	3.8	13	20		06/01/2019 18:45	RLD	EPA 8260C	
1,2 Dichloroethane-d4	104	% Recovery	88.0	113	1		06/01/2019 18:45	RLD	EPA 8260C	

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286290	Sample Description: LC-1	License/Well #: 00467/301	Sampled: 05/21/2019 1800
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
Bromofluorobenzene	103	% Recovery	82.0	114	1			06/01/2019 18:45	RLD	EPA 8260C
d8-Toluene	96	% Recovery	90.0	110	1			06/01/2019 18:45	RLD	EPA 8260C
Dibromofluoromethane	104	% Recovery	88.0	112	1			06/01/2019 18:45	RLD	EPA 8260C

CT LAB#: 286317 Sample Description: LC-3 License/Well #: 00467/303 Sampled: 05/21/2019 1825

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	640	mg/L	80	250	100			05/31/2019 22:58	TMG	EPA 9056A
Metals Results										
Total Manganese	1680	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 21:01	NAH	EPA 6010C
Organic Results										
Qualifiers applying to all Analytes of Method EPA 8260C: T										
1,1,1,2-Tetrachloroethane	<6.0	ug/L	6.0	19	10			06/01/2019 17:17	RLD	EPA 8260C
1,1,1-Trichloroethane	<5.0	ug/L	5.0	18	10			06/01/2019 17:17	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<7.0	ug/L	7.0	24	10			06/01/2019 17:17	RLD	EPA 8260C
1,1,2-Trichloroethane	<4.0	ug/L	4.0	15	10			06/01/2019 17:17	RLD	EPA 8260C
1,1-Dichloroethane	<3.0	ug/L	3.0	11	10			06/01/2019 17:17	RLD	EPA 8260C
1,1-Dichloroethene	<4.0	ug/L	4.0	15	10			06/01/2019 17:17	RLD	EPA 8260C
1,1-Dichloropropene	<7.0	ug/L	7.0	22	10			06/01/2019 17:17	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<8.0	ug/L	8.0	26	10			06/01/2019 17:17	RLD	EPA 8260C
1,2,3-Trichloropropane	<6.0	ug/L	6.0	19	10			06/01/2019 17:17	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<5.0	ug/L	5.0	17	10			06/01/2019 17:17	RLD	EPA 8260C
1,2,4-Trimethylbenzene	5.8	ug/L	4.0 *	12	10			06/01/2019 17:17	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<7.0	ug/L	7.0	24	10			06/01/2019 17:17	RLD	EPA 8260C
1,2-Dibromoethane	<6.0	ug/L	6.0	18	10			06/01/2019 17:17	RLD	EPA 8260C
1,2-Dichlorobenzene	<6.0	ug/L	6.0	19	10			06/01/2019 17:17	RLD	EPA 8260C
1,2-Dichloroethane	<2.6	ug/L	2.6	8.7	10			06/01/2019 17:17	RLD	EPA 8260C
1,2-Dichloropropane	<4.0	ug/L	4.0	14	10			06/01/2019 17:17	RLD	EPA 8260C
1,3,5-Trimethylbenzene	5.0	ug/L	4.0 *	13	10			06/01/2019 17:17	RLD	EPA 8260C
1,3-Dichlorobenzene	<5.0	ug/L	5.0	18	10			06/01/2019 17:17	RLD	EPA 8260C
1,3-Dichloropropane	<5.0	ug/L	5.0	16	10			06/01/2019 17:17	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286317 Sample Description: LC-3

License/Well #: 00467/303

Sampled: 05/21/2019 1825

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
1,4-Dichlorobenzene	<6.0	ug/L	6.0	20	10			06/01/2019 17:17	RLD	EPA 8260C
2,2-Dichloropropane	<5.0	ug/L	5.0	16	10			06/01/2019 17:17	RLD	EPA 8260C
2-Butanone	280	ug/L	40	140	10			06/01/2019 17:17	RLD	EPA 8260C
2-Chlorotoluene	<4.0	ug/L	4.0	14	10			06/01/2019 17:17	RLD	EPA 8260C
2-Hexanone	<70	ug/L	70	240	10			06/01/2019 17:17	RLD	EPA 8260C
4-Chlorotoluene	<4.0	ug/L	4.0	15	10			06/01/2019 17:17	RLD	EPA 8260C
4-Methyl-2-pentanone	<60	ug/L	60	190	10			06/01/2019 17:17	RLD	EPA 8260C
Acetone	1800	ug/L	90	300	10	Z		06/01/2019 17:17	RLD	EPA 8260C
Benzene	4.1	ug/L	2.4 *	8.1	10			06/01/2019 17:17	RLD	EPA 8260C
Bromobenzene	<6.0	ug/L	6.0	19	10			06/01/2019 17:17	RLD	EPA 8260C
Bromochloromethane	<8.0	ug/L	8.0	25	10			06/01/2019 17:17	RLD	EPA 8260C
Bromodichloromethane	<4.0	ug/L	4.0	14	10			06/01/2019 17:17	RLD	EPA 8260C
Bromoform	<7.0	ug/L	7.0	23	10			06/01/2019 17:17	RLD	EPA 8260C
Bromomethane	8.9	ug/L	7.0 *	24	10	B		06/01/2019 17:17	RLD	EPA 8260C
Carbon disulfide	75	ug/L	5.0	16	10			06/01/2019 17:17	RLD	EPA 8260C
Carbon tetrachloride	<5.0	ug/L	5.0	16	10			06/01/2019 17:17	RLD	EPA 8260C
Chlorobenzene	<5.0	ug/L	5.0	15	10			06/01/2019 17:17	RLD	EPA 8260C
Chloroethane	<5.0	ug/L	5.0	16	10			06/01/2019 17:17	RLD	EPA 8260C
Chloroform	<3.0	ug/L	3.0	9.0	10			06/01/2019 17:17	RLD	EPA 8260C
Chloromethane	<7.0	ug/L	7.0	25	10			06/01/2019 17:17	RLD	EPA 8260C
cis-1,2-Dichloroethene	170	ug/L	3.0	10	10			06/01/2019 17:17	RLD	EPA 8260C
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	12	10			06/01/2019 17:17	RLD	EPA 8260C
Dibromochloromethane	<4.0	ug/L	4.0	14	10			06/01/2019 17:17	RLD	EPA 8260C
Dibromomethane	<8.0	ug/L	8.0	25	10			06/01/2019 17:17	RLD	EPA 8260C
Dichlorodifluoromethane	<4.0	ug/L	4.0	15	10			06/01/2019 17:17	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286317 Sample Description: LC-3 License/Well #: 00467/303 Sampled: 05/21/2019 1825

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
Diisopropyl ether	<2.9	ug/L	2.9	9.7	10			06/01/2019 17:17	RLD	EPA 8260C
Ethylbenzene	69	ug/L	3.0	11	10			06/01/2019 17:17	RLD	EPA 8260C
Hexachlorobutadiene	<9.0	ug/L	9.0	29	10			06/01/2019 17:17	RLD	EPA 8260C
Isopropylbenzene	<4.0	ug/L	4.0	14	10			06/01/2019 17:17	RLD	EPA 8260C
m & p-Xylene	310	ug/L	5.0	18	10			06/01/2019 17:17	RLD	EPA 8260C
Methyl tert-butyl ether	<3.0	ug/L	3.0	11	10			06/01/2019 17:17	RLD	EPA 8260C
Methylene chloride	<5.0	ug/L	5.0	17	10			06/01/2019 17:17	RLD	EPA 8260C
n-Butylbenzene	<4.0	ug/L	4.0	12	10			06/01/2019 17:17	RLD	EPA 8260C
n-Propylbenzene	<5.0	ug/L	5.0	18	10			06/01/2019 17:17	RLD	EPA 8260C
Naphthalene	<7.0	ug/L	7.0	22	10			06/01/2019 17:17	RLD	EPA 8260C
o-Xylene	78	ug/L	4.0	14	10			06/01/2019 17:17	RLD	EPA 8260C
p-Isopropyltoluene	<5.0	ug/L	5.0	15	10			06/01/2019 17:17	RLD	EPA 8260C
sec-Butylbenzene	<4.0	ug/L	4.0	13	10			06/01/2019 17:17	RLD	EPA 8260C
Styrene	<5.0	ug/L	5.0	17	10			06/01/2019 17:17	RLD	EPA 8260C
tert-Butylbenzene	<4.0	ug/L	4.0	14	10			06/01/2019 17:17	RLD	EPA 8260C
Tetrachloroethene	<5.0	ug/L	5.0	18	10			06/01/2019 17:17	RLD	EPA 8260C
Tetrahydrofuran	82	ug/L	30 *	100	10			06/01/2019 17:17	RLD	EPA 8260C
Toluene	260	ug/L	3.0	11	10			06/01/2019 17:17	RLD	EPA 8260C
trans-1,2-Dichloroethene	<6.0	ug/L	6.0	19	10			06/01/2019 17:17	RLD	EPA 8260C
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	14	10			06/01/2019 17:17	RLD	EPA 8260C
Trichloroethene	14	ug/L	3.0	10	10			06/01/2019 17:17	RLD	EPA 8260C
Trichlorofluoromethane	<3.0	ug/L	3.0	11	10			06/01/2019 17:17	RLD	EPA 8260C
Vinyl acetate	<30	ug/L	30	110	10			06/01/2019 17:17	RLD	EPA 8260C
Vinyl chloride	<1.9	ug/L	1.9	6.4	10			06/01/2019 17:17	RLD	EPA 8260C
1,2 Dichloroethane-d4	103	% Recovery	88.0	113	1			06/01/2019 17:17	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286317 Sample Description: LC-3

License/Well #: 00467/303

Sampled: 05/21/2019 1825

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
Bromofluorobenzene	101	% Recovery	82.0	114	1			06/01/2019 17:17	RLD	EPA 8260C
d8-Toluene	98	% Recovery	90.0	110	1			06/01/2019 17:17	RLD	EPA 8260C
Dibromofluoromethane	108	% Recovery	88.0	112	1			06/01/2019 17:17	RLD	EPA 8260C

CT LAB#: 286318 Sample Description: LC-2 License/Well #: 00467/302 Sampled: 05/21/2019 1850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	2.7	mg/L	0.80	2.5	1			06/03/2019 10:33	TMG	EPA 9056A
Metals Results										
Total Manganese	1880	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 21:07	NAH	EPA 6010C
Organic Results										
Qualifiers applying to all Analytes of Method EPA 8260C: T										
1,1,1,2-Tetrachloroethane	<6.0	ug/L	6.0	19	10			06/01/2019 17:47	RLD	EPA 8260C
1,1,1-Trichloroethane	<5.0	ug/L	5.0	18	10			06/01/2019 17:47	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<7.0	ug/L	7.0	24	10			06/01/2019 17:47	RLD	EPA 8260C
1,1,2-Trichloroethane	<4.0	ug/L	4.0	15	10			06/01/2019 17:47	RLD	EPA 8260C
1,1-Dichloroethane	<3.0	ug/L	3.0	11	10			06/01/2019 17:47	RLD	EPA 8260C
1,1-Dichloroethene	<4.0	ug/L	4.0	15	10			06/01/2019 17:47	RLD	EPA 8260C
1,1-Dichloropropene	<7.0	ug/L	7.0	22	10			06/01/2019 17:47	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<8.0	ug/L	8.0	26	10			06/01/2019 17:47	RLD	EPA 8260C
1,2,3-Trichloropropane	<6.0	ug/L	6.0	19	10			06/01/2019 17:47	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<5.0	ug/L	5.0	17	10			06/01/2019 17:47	RLD	EPA 8260C
1,2,4-Trimethylbenzene	85	ug/L	4.0	12	10			06/01/2019 17:47	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<7.0	ug/L	7.0	24	10			06/01/2019 17:47	RLD	EPA 8260C
1,2-Dibromoethane	<6.0	ug/L	6.0	18	10			06/01/2019 17:47	RLD	EPA 8260C
1,2-Dichlorobenzene	<6.0	ug/L	6.0	19	10			06/01/2019 17:47	RLD	EPA 8260C
1,2-Dichloroethane	<2.6	ug/L	2.6	8.7	10			06/01/2019 17:47	RLD	EPA 8260C
1,2-Dichloropropane	<4.0	ug/L	4.0	14	10			06/01/2019 17:47	RLD	EPA 8260C
1,3,5-Trimethylbenzene	19	ug/L	4.0	13	10			06/01/2019 17:47	RLD	EPA 8260C
1,3-Dichlorobenzene	<5.0	ug/L	5.0	18	10			06/01/2019 17:47	RLD	EPA 8260C
1,3-Dichloropropane	<5.0	ug/L	5.0	16	10			06/01/2019 17:47	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286318 Sample Description: LC-2 License/Well #: 00467/302 Sampled: 05/21/2019 1850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
1,4-Dichlorobenzene	23	ug/L	6.0	20	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
2,2-Dichloropropane	<5.0	ug/L	5.0	16	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
2-Butanone	<40	ug/L	40	140	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
2-Chlorotoluene	<4.0	ug/L	4.0	14	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
2-Hexanone	<70	ug/L	70	240	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
4-Chlorotoluene	<4.0	ug/L	4.0	15	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
4-Methyl-2-pentanone	<60	ug/L	60	190	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Acetone	94	ug/L	90 *	300	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Benzene	18	ug/L	2.4	8.1	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Bromobenzene	<6.0	ug/L	6.0	19	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Bromochloromethane	<8.0	ug/L	8.0	25	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Bromodichloromethane	<4.0	ug/L	4.0	14	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Bromoform	<7.0	ug/L	7.0	23	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Bromomethane	<7.0	ug/L	7.0	24	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Carbon disulfide	<5.0	ug/L	5.0	16	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Carbon tetrachloride	<5.0	ug/L	5.0	16	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Chlorobenzene	170	ug/L	5.0	15	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Chloroethane	<5.0	ug/L	5.0	16	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Chloroform	<3.0	ug/L	3.0	9.0	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Chloromethane	<7.0	ug/L	7.0	25	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
cis-1,2-Dichloroethene	<3.0	ug/L	3.0	10	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
cis-1,3-Dichloropropene	<4.0	ug/L	4.0	12	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Dibromochloromethane	<4.0	ug/L	4.0	14	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Dibromomethane	<8.0	ug/L	8.0	25	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C
Dichlorodifluoromethane	<4.0	ug/L	4.0	15	10		06/01/2019 17:47	06/01/2019 17:47	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286318 Sample Description: LC-2

License/Well #: 00467/302

Sampled: 05/21/2019 1850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
Diisopropyl ether	<2.9	ug/L	2.9	9.7	10		06/01/2019 17:47	RLD	EPA 8260C	
Ethylbenzene	8.5	ug/L	3.0 *	11	10		06/01/2019 17:47	RLD	EPA 8260C	
Hexachlorobutadiene	<9.0	ug/L	9.0	29	10		06/01/2019 17:47	RLD	EPA 8260C	
Isopropylbenzene	13	ug/L	4.0 *	14	10		06/01/2019 17:47	RLD	EPA 8260C	
m & p-Xylene	430	ug/L	5.0	18	10		06/01/2019 17:47	RLD	EPA 8260C	
Methyl tert-butyl ether	<3.0	ug/L	3.0	11	10		06/01/2019 17:47	RLD	EPA 8260C	
Methylene chloride	<5.0	ug/L	5.0	17	10		06/01/2019 17:47	RLD	EPA 8260C	
n-Butylbenzene	<4.0	ug/L	4.0	12	10		06/01/2019 17:47	RLD	EPA 8260C	
n-Propylbenzene	10	ug/L	5.0 *	18	10		06/01/2019 17:47	RLD	EPA 8260C	
Naphthalene	16	ug/L	7.0 *	22	10		06/01/2019 17:47	RLD	EPA 8260C	
o-Xylene	<4.0	ug/L	4.0	14	10		06/01/2019 17:47	RLD	EPA 8260C	
p-Isopropyltoluene	9.8	ug/L	5.0 *	15	10		06/01/2019 17:47	RLD	EPA 8260C	
sec-Butylbenzene	<4.0	ug/L	4.0	13	10		06/01/2019 17:47	RLD	EPA 8260C	
Styrene	<5.0	ug/L	5.0	17	10		06/01/2019 17:47	RLD	EPA 8260C	
tert-Butylbenzene	<4.0	ug/L	4.0	14	10		06/01/2019 17:47	RLD	EPA 8260C	
Tetrachloroethene	<5.0	ug/L	5.0	18	10		06/01/2019 17:47	RLD	EPA 8260C	
Tetrahydrofuran	110	ug/L	30	100	10		06/01/2019 17:47	RLD	EPA 8260C	
Toluene	3.2	ug/L	3.0 *	11	10		06/01/2019 17:47	RLD	EPA 8260C	
trans-1,2-Dichloroethene	<6.0	ug/L	6.0	19	10		06/01/2019 17:47	RLD	EPA 8260C	
trans-1,3-Dichloropropene	<4.0	ug/L	4.0	14	10		06/01/2019 17:47	RLD	EPA 8260C	
Trichloroethene	<3.0	ug/L	3.0	10	10		06/01/2019 17:47	RLD	EPA 8260C	
Trichlorofluoromethane	<3.0	ug/L	3.0	11	10		06/01/2019 17:47	RLD	EPA 8260C	
Vinyl acetate	<30	ug/L	30	110	10		06/01/2019 17:47	RLD	EPA 8260C	
Vinyl chloride	<1.9	ug/L	1.9	6.4	10		06/01/2019 17:47	RLD	EPA 8260C	
1,2 Dichloroethane-d4	108	% Recovery	88.0	113	1		06/01/2019 17:47	RLD	EPA 8260C	

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286318	Sample Description: LC-2	License/Well #: 00467/302	Sampled: 05/21/2019 1850
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
Bromofluorobenzene	101	% Recovery	82.0	114	1			06/01/2019 17:47	RLD	EPA 8260C
d8-Toluene	96	% Recovery	90.0	110	1			06/01/2019 17:47	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	88.0	112	1			06/01/2019 17:47	RLD	EPA 8260C

CT LAB#: 286319 Sample Description: P-111D

License/Well #: 00467/130

Sampled: 05/22/2019 0852

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	62	mg/L	0.80	2.5	1			05/24/2019 12:34	TMG	EPA 9056A
Metals Results										
Total Manganese	33.0	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 18:36	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:08	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 03:08	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 03:08	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 03:08	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 03:08	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 03:08	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 03:08	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:08	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 03:08	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 03:08	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 03:08	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 03:08	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 03:08	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:08	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 03:08	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 03:08	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 03:08	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:08	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:08	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:08	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 03:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286319 Sample Description: P-111D

License/Well #: 00467/130

Sampled: 05/22/2019 0852

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 03:08	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 03:08	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 03:08	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 03:08	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 03:08	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 03:08	RLD	EPA 8260C
Acetone	0.45	ug/L	0.30 *	1.0	1	B		06/03/2019 03:08	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 03:08	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 03:08	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 03:08	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 03:08	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 03:08	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 03:08	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/03/2019 03:08	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 03:08	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 03:08	RLD	EPA 8260C
Chloroethane	0.93	ug/L	0.070	0.23	1			06/03/2019 03:08	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 03:08	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:08	RLD	EPA 8260C
cis-1,2-Dichloroethene	2.8	ug/L	0.070	0.23	1			06/03/2019 03:08	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 03:08	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 03:08	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 03:08	RLD	EPA 8260C
Dichlorodifluoromethane	0.066	ug/L	0.060 *	0.19	1			06/03/2019 03:08	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 03:08	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 03:08	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/03/2019 03:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286319 Sample Description: P-111D

License/Well #: 00467/130

Sampled: 05/22/2019 0852

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Vinyl chloride	4.2	ug/L	0.019	0.064	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
1,2 Dichloroethane-d4	104	% Recovery	86.0	106	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Bromofluorobenzene	96	% Recovery	75.0	124	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
d8-Toluene	100	% Recovery	94.0	105	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	94.0	105	1		06/03/2019 03:08	06/03/2019 03:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286323 Sample Description: RHODE License/Well #: 00467/207 Sampled: 05/22/2019 0925

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	28	mg/L	0.80	2.5	1			05/24/2019 13:34	TMG	EPA 9056A
Metals Results										
Total Manganese	63.2	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 18:42	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.30	ug/L	0.30	1.0	1			05/25/2019 01:40	DGS	EPA 524.2
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.93	1			05/25/2019 01:40	DGS	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1.6	1			05/25/2019 01:40	DGS	EPA 524.2
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.3	1			05/25/2019 01:40	DGS	EPA 524.2
1,1-Dichloroethane	<0.28	ug/L	0.28	0.95	1			05/25/2019 01:40	DGS	EPA 524.2
1,1-Dichloroethene	<0.30	ug/L	0.30	1.1	1			05/25/2019 01:40	DGS	EPA 524.2
1,1-Dichloropropene	<0.30	ug/L	0.30	1.1	1			05/25/2019 01:40	DGS	EPA 524.2
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	1			05/25/2019 01:40	DGS	EPA 524.2
1,2,3-Trichloropropane	<0.25	ug/L	0.25	0.83	1			05/25/2019 01:40	DGS	EPA 524.2
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.4	1			05/25/2019 01:40	DGS	EPA 524.2
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1			05/25/2019 01:40	DGS	EPA 524.2
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.2	1			05/25/2019 01:40	DGS	EPA 524.2
1,2-Dichloroethane	<0.23	ug/L	0.23	0.76	1			05/25/2019 01:40	DGS	EPA 524.2
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	1			05/25/2019 01:40	DGS	EPA 524.2
1,3,5-Trimethylbenzene	<0.29	ug/L	0.29	0.98	1			05/25/2019 01:40	DGS	EPA 524.2
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1			05/25/2019 01:40	DGS	EPA 524.2
1,3-Dichloropropane	<0.30	ug/L	0.30	1.1	1			05/25/2019 01:40	DGS	EPA 524.2
1,4-Dichlorobenzene	<0.29	ug/L	0.29	0.98	1			05/25/2019 01:40	DGS	EPA 524.2
2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	1			05/25/2019 01:40	DGS	EPA 524.2
2-Chlorotoluene	<0.30	ug/L	0.30	1.0	1			05/25/2019 01:40	DGS	EPA 524.2
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1			05/25/2019 01:40	DGS	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286323 Sample Description: RHODE

License/Well #: 00467/207

Sampled: 05/22/2019 0925

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzene	<0.26	ug/L	0.26	0.87	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Bromobenzene	<0.40	ug/L	0.40	1.4	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Bromochloromethane	<0.40	ug/L	0.40	1.2	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Bromodichloromethane	<0.24	ug/L	0.24	0.81	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Bromoform	<0.40	ug/L	0.40	1.2	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Bromomethane	<0.40	ug/L	0.40	1.4	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Carbon tetrachloride	<0.28	ug/L	0.28	0.94	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Chlorobenzene	<0.25	ug/L	0.25	0.84	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Chlorodibromomethane	<0.40	ug/L	0.40	1.4	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Chloroethane	<0.30	ug/L	0.30	1.3	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Chloroform	<0.23	ug/L	0.23	0.78	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Chloromethane	<0.19	ug/L	0.19	0.63	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
cis-1,2-Dichloroethene	<0.28	ug/L	0.28	0.94	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
cis-1,3-Dichloropropene	<0.22	ug/L	0.22	0.73	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Dibromomethane	<0.30	ug/L	0.30	1.0	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Dichlorodifluoromethane	<0.30	ug/L	0.30	1.0	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Ethylbenzene	<0.27	ug/L	0.27	0.89	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Hexachlorobutadiene	<0.40	ug/L	0.40	1.4	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Isopropylbenzene	<0.29	ug/L	0.29	0.98	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Methyl tert-butyl ether	<0.26	ug/L	0.26	0.86	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Methylene chloride	<0.30	ug/L	0.30	0.99	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
n-Butylbenzene	<0.30	ug/L	0.30	1.0	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
n-Propylbenzene	<0.26	ug/L	0.26	0.85	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Naphthalene	<0.50	ug/L	0.50	1.5	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
p-Isopropyltoluene	<0.25	ug/L	0.25	0.82	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
sec-Butylbenzene	<0.26	ug/L	0.26	0.85	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2
Styrene	<0.30	ug/L	0.30	1.0	1		05/25/2019 01:40	05/25/2019 01:40	DGS	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286323 Sample Description: RHODE

License/Well #: 00467/207

Sampled: 05/22/2019 0925

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
tert-Butylbenzene	<0.24	ug/L	0.24	0.80	1			05/25/2019 01:40	DGS	EPA 524.2
Tetrachloroethene	<0.26	ug/L	0.26	0.87	1			05/25/2019 01:40	DGS	EPA 524.2
Toluene	<0.25	ug/L	0.25	0.84	1			05/25/2019 01:40	DGS	EPA 524.2
Total Xylene	<0.26	ug/L	0.26	0.88	1			05/25/2019 01:40	DGS	EPA 524.2
trans-1,2-Dichloroethene	<0.23	ug/L	0.23	0.75	1			05/25/2019 01:40	DGS	EPA 524.2
trans-1,3-Dichloropropene	<0.28	ug/L	0.28	0.93	1			05/25/2019 01:40	DGS	EPA 524.2
Trichloroethene	<0.30	ug/L	0.30	1.0	1			05/25/2019 01:40	DGS	EPA 524.2
Trichlorofluoromethane	<0.24	ug/L	0.24	0.80	1			05/25/2019 01:40	DGS	EPA 524.2
Vinyl chloride	<0.17	ug/L	0.17	0.58	1			05/25/2019 01:40	DGS	EPA 524.2
1,2-Dichlorobenzene-d4	108	% Recovery	80.0	120	1			05/25/2019 01:40	DGS	EPA 524.2
Bromofluorobenzene	102	% Recovery	80.0	120	1			05/25/2019 01:40	DGS	EPA 524.2

CT LAB#: 286325 Sample Description: P-114 License/Well #: 00467/140 Sampled: 05/22/2019 1101

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate+Nitrite Nitrogen Total	<0.12	mg/L	0.12	0.40	1			05/24/2019 09:34	TMG	EPA 9056A
Total Sulfate	62	mg/L	0.80	2.5	1			05/24/2019 09:34	TMG	EPA 9056A
Metals Results										
Total Manganese	68.5	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 18:49	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:36	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 03:36	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 03:36	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 03:36	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 03:36	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 03:36	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 03:36	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:36	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 03:36	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 03:36	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 03:36	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 03:36	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 03:36	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:36	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 03:36	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 03:36	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 03:36	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:36	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:36	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:36	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286325 Sample Description: P-114 License/Well #: 00467/140 Sampled: 05/22/2019 1101

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 03:36	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 03:36	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 03:36	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 03:36	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 03:36	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 03:36	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 03:36	RLD	EPA 8260C
Acetone	0.47	ug/L	0.30 *	1.0	1	B		06/03/2019 03:36	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 03:36	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 03:36	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 03:36	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 03:36	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 03:36	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 03:36	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/03/2019 03:36	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 03:36	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 03:36	RLD	EPA 8260C
Chloroethane	0.27	ug/L	0.070	0.23	1			06/03/2019 03:36	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 03:36	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:36	RLD	EPA 8260C
cis-1,2-Dichloroethene	1.7	ug/L	0.070	0.23	1			06/03/2019 03:36	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 03:36	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 03:36	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 03:36	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 03:36	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 03:36	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 03:36	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286325 Sample Description: P-114

License/Well #: 00467/140

Sampled: 05/22/2019 1101

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/03/2019 03:36	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 03:36	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/03/2019 03:36	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/03/2019 03:36	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/03/2019 03:36	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/03/2019 03:36	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:36	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/03/2019 03:36	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/03/2019 03:36	RLD	EPA 8260C
p-Isopropyltoluene	0.15	ug/L	0.040	0.13	1			06/03/2019 03:36	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 03:36	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/03/2019 03:36	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/03/2019 03:36	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/03/2019 03:36	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/03/2019 03:36	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 03:36	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/03/2019 03:36	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/03/2019 03:36	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/03/2019 03:36	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/03/2019 03:36	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/03/2019 03:36	RLD	EPA 8260C
Vinyl chloride	7.3	ug/L	0.019	0.064	1			06/03/2019 03:36	RLD	EPA 8260C
1,2 Dichloroethane-d4	104	% Recovery	86.0	106	1			06/03/2019 03:36	RLD	EPA 8260C
Bromofluorobenzene	99	% Recovery	75.0	124	1			06/03/2019 03:36	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1			06/03/2019 03:36	RLD	EPA 8260C
Dibromofluoromethane	98	% Recovery	94.0	105	1			06/03/2019 03:36	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286326 Sample Description: P-115 License/Well #: 00467/142 Sampled: 05/22/2019 1152

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate+Nitrite Nitrogen Total	<0.12	mg/L	0.12	0.40	1			05/24/2019 09:54	TMG	EPA 9056A
Total Sulfate	40	mg/L	0.80	2.5	1			05/24/2019 09:54	TMG	EPA 9056A
Metals Results										
Total Manganese	140	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 19:13	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:04	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 04:04	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 04:04	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 04:04	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 04:04	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 04:04	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 04:04	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:04	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 04:04	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 04:04	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 04:04	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 04:04	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 04:04	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:04	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 04:04	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 04:04	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 04:04	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:04	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:04	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:04	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286326 Sample Description: P-115

License/Well #: 00467/142

Sampled: 05/22/2019 1152

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 04:04	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 04:04	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 04:04	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 04:04	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 04:04	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 04:04	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 04:04	RLD	EPA 8260C
Acetone	0.55	ug/L	0.30 *	1.0	1	B		06/03/2019 04:04	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 04:04	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 04:04	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 04:04	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 04:04	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 04:04	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 04:04	RLD	EPA 8260C
Carbon disulfide	0.074	ug/L	0.070 *	0.25	1			06/03/2019 04:04	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 04:04	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 04:04	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 04:04	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 04:04	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:04	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.14	ug/L	0.070 *	0.23	1			06/03/2019 04:04	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 04:04	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 04:04	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 04:04	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 04:04	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 04:04	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 04:04	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286326 Sample Description: P-115

License/Well #: 00467/142

Sampled: 05/22/2019 1152

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Vinyl chloride	0.94	ug/L	0.019	0.064	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
1,2 Dichloroethane-d4	104	% Recovery	86.0	106	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Bromofluorobenzene	99	% Recovery	75.0	124	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1		06/03/2019 04:04	04:04	RLD	EPA 8260C
Dibromofluoromethane	102	% Recovery	94.0	105	1		06/03/2019 04:04	04:04	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286327 Sample Description: P-106

License/Well #: 00467/116

Sampled: 05/22/2019 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate+Nitrite Nitrogen Total	<0.12	mg/L	0.12	0.40	1			05/24/2019 10:14	TMG	EPA 9056A
Total Sulfate	84	mg/L	4.0	13	5			05/24/2019 19:15	TMG	EPA 9056A
Metals Results										
Total Manganese	66.4	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 19:20	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:33	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 04:33	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 04:33	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 04:33	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 04:33	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 04:33	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 04:33	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:33	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 04:33	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 04:33	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 04:33	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 04:33	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 04:33	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:33	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 04:33	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 04:33	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 04:33	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:33	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:33	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:33	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286327 Sample Description: P-106

License/Well #: 00467/116

Sampled: 05/22/2019 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 04:33	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 04:33	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 04:33	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 04:33	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 04:33	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 04:33	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 04:33	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/03/2019 04:33	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 04:33	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 04:33	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 04:33	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 04:33	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 04:33	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 04:33	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/03/2019 04:33	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 04:33	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 04:33	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 04:33	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 04:33	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:33	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/03/2019 04:33	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 04:33	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 04:33	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 04:33	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 04:33	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 04:33	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 04:33	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286327 Sample Description: P-106

License/Well #: 00467/116

Sampled: 05/22/2019 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/03/2019 04:33	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 04:33	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/03/2019 04:33	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/03/2019 04:33	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/03/2019 04:33	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/03/2019 04:33	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:33	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/03/2019 04:33	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/03/2019 04:33	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:33	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 04:33	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/03/2019 04:33	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/03/2019 04:33	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/03/2019 04:33	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/03/2019 04:33	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 04:33	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/03/2019 04:33	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/03/2019 04:33	RLD	EPA 8260C
Trichloroethene	0.15	ug/L	0.050 *	0.17	1			06/03/2019 04:33	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/03/2019 04:33	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/03/2019 04:33	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			06/03/2019 04:33	RLD	EPA 8260C
1,2 Dichloroethane-d4	103	% Recovery	86.0	106	1			06/03/2019 04:33	RLD	EPA 8260C
Bromofluorobenzene	95	% Recovery	75.0	124	1			06/03/2019 04:33	RLD	EPA 8260C
d8-Toluene	100	% Recovery	94.0	105	1			06/03/2019 04:33	RLD	EPA 8260C
Dibromofluoromethane	101	% Recovery	94.0	105	1			06/03/2019 04:33	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286328 Sample Description: MW-103 License/Well #: 00467/112 Sampled: 05/22/2019 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate+Nitrite Nitrogen Total	21	mg/L	0.60	2.0	5			05/24/2019 10:54	TMG	EPA 9056A
Total Sulfate	150	mg/L	4.0	13	5			05/24/2019 14:34	TMG	EPA 9056A
Metals Results										
Total Manganese	62.4	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 19:26	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:01	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 05:01	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 05:01	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 05:01	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 05:01	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 05:01	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 05:01	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:01	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 05:01	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:01	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:01	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 05:01	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 05:01	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:01	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 05:01	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 05:01	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 05:01	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:01	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:01	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:01	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286328 Sample Description: MW-103

License/Well #: 00467/112

Sampled: 05/22/2019 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 05:01	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 05:01	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 05:01	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 05:01	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 05:01	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:01	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 05:01	RLD	EPA 8260C
Acetone	3.3	ug/L	0.30	1.0	1	B		06/03/2019 05:01	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 05:01	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 05:01	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 05:01	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 05:01	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:01	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 05:01	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/03/2019 05:01	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 05:01	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 05:01	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 05:01	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 05:01	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:01	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.34	ug/L	0.070	0.23	1			06/03/2019 05:01	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 05:01	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 05:01	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 05:01	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 05:01	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 05:01	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 05:01	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286328 Sample Description: MW-103

License/Well #: 00467/112

Sampled: 05/22/2019 1450

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Tetrachloroethene	0.27	ug/L	0.050	0.18	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.040	ug/L	0.040 *	0.14	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Trichloroethene	1.4	ug/L	0.050	0.17	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	86.0	106	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Bromofluorobenzene	98	% Recovery	75.0	124	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C
Dibromofluoromethane	98	% Recovery	94.0	105	1		06/03/2019 05:01	06/03/2019 05:01	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286329 Sample Description: P-103D

License/Well #: 00467/141

Sampled: 05/22/2019 1526

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate+Nitrite Nitrogen Total	<0.12	mg/L	0.12	0.40	1			05/24/2019 11:14	TMG	EPA 9056A
Total Sulfate	72	mg/L	4.0	13	5			05/24/2019 20:15	TMG	EPA 9056A
Metals Results										
Total Manganese	89.5	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 19:33	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:30	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 05:30	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 05:30	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 05:30	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 05:30	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 05:30	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 05:30	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:30	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 05:30	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:30	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:30	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 05:30	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 05:30	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:30	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 05:30	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 05:30	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 05:30	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:30	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:30	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:30	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286329 Sample Description: P-103D

License/Well #: 00467/141

Sampled: 05/22/2019 1526

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Acetone	0.32	ug/L	0.30 *	1.0	1	B	06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z	06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.30	ug/L	0.070	0.23	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/03/2019 05:30	06/03/2019 05:30	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286329 Sample Description: P-103D

License/Well #: 00467/141

Sampled: 05/22/2019 1526

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/03/2019 05:30	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:30	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/03/2019 05:30	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:30	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/03/2019 05:30	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/03/2019 05:30	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:30	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/03/2019 05:30	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/03/2019 05:30	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:30	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 05:30	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/03/2019 05:30	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/03/2019 05:30	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/03/2019 05:30	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/03/2019 05:30	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:30	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/03/2019 05:30	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/03/2019 05:30	RLD	EPA 8260C
Trichloroethene	0.086	ug/L	0.050 *	0.17	1			06/03/2019 05:30	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/03/2019 05:30	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/03/2019 05:30	RLD	EPA 8260C
Vinyl chloride	0.31	ug/L	0.019	0.064	1			06/03/2019 05:30	RLD	EPA 8260C
1,2 Dichloroethane-d4	103	% Recovery	86.0	106	1			06/03/2019 05:30	RLD	EPA 8260C
Bromofluorobenzene	97	% Recovery	75.0	124	1			06/03/2019 05:30	RLD	EPA 8260C
d8-Toluene	100	% Recovery	94.0	105	1			06/03/2019 05:30	RLD	EPA 8260C
Dibromofluoromethane	101	% Recovery	94.0	105	1			06/03/2019 05:30	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286330 Sample Description: P-103 License/Well #: 00467/114 Sampled: 05/22/2019 1437

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate+Nitrite Nitrogen Total	<0.12	mg/L	0.12	0.40	1			05/24/2019 10:34	TMG	EPA 9056A
Total Sulfate	69	mg/L	4.0	13	5			05/24/2019 19:35	TMG	EPA 9056A
Metals Results										
Total Manganese	93.5	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 19:39	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:58	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 05:58	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 05:58	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 05:58	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 05:58	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 05:58	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 05:58	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:58	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 05:58	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:58	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:58	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 05:58	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 05:58	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:58	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 05:58	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 05:58	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 05:58	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:58	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:58	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:58	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286330 Sample Description: P-103

License/Well #: 00467/114

Sampled: 05/22/2019 1437

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 05:58	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 05:58	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 05:58	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 05:58	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 05:58	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:58	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 05:58	RLD	EPA 8260C
Acetone	0.36	ug/L	0.30 *	1.0	1	B		06/03/2019 05:58	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 05:58	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 05:58	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 05:58	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 05:58	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:58	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 05:58	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/03/2019 05:58	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 05:58	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 05:58	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 05:58	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 05:58	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:58	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/03/2019 05:58	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 05:58	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 05:58	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 05:58	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 05:58	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 05:58	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 05:58	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286330 Sample Description: P-103

License/Well #: 00467/114

Sampled: 05/22/2019 1437

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/03/2019 05:58	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:58	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/03/2019 05:58	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/03/2019 05:58	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/03/2019 05:58	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/03/2019 05:58	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:58	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/03/2019 05:58	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/03/2019 05:58	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:58	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 05:58	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/03/2019 05:58	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/03/2019 05:58	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/03/2019 05:58	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/03/2019 05:58	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 05:58	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/03/2019 05:58	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/03/2019 05:58	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/03/2019 05:58	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/03/2019 05:58	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/03/2019 05:58	RLD	EPA 8260C
Vinyl chloride	0.036	ug/L	0.019 *	0.064	1			06/03/2019 05:58	RLD	EPA 8260C
1,2 Dichloroethane-d4	102	% Recovery	86.0	106	1			06/03/2019 05:58	RLD	EPA 8260C
Bromofluorobenzene	97	% Recovery	75.0	124	1			06/03/2019 05:58	RLD	EPA 8260C
d8-Toluene	100	% Recovery	94.0	105	1			06/03/2019 05:58	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	94.0	105	1			06/03/2019 05:58	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286331 Sample Description: MW-112 License/Well #: 00467/121 Sampled: 05/22/2019 1615

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate+Nitrite Nitrogen Total	2.2	mg/L	0.12	0.40	1			05/24/2019 11:34	TMG	EPA 9056A
Total Sulfate	67	mg/L	4.0	13	5			05/24/2019 20:35	TMG	EPA 9056A
Metals Results										
Total Manganese	368	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 19:46	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 06:26	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 06:26	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/03/2019 06:26	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/03/2019 06:26	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 06:26	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/03/2019 06:26	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/03/2019 06:26	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 06:26	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/03/2019 06:26	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 06:26	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 06:26	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/03/2019 06:26	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 06:26	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 06:26	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/03/2019 06:26	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/03/2019 06:26	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 06:26	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 06:26	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/03/2019 06:26	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 06:26	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286331 Sample Description: MW-112

License/Well #: 00467/121

Sampled: 05/22/2019 1615

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/03/2019 06:26	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/03/2019 06:26	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/03/2019 06:26	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/03/2019 06:26	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/03/2019 06:26	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/03/2019 06:26	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/03/2019 06:26	RLD	EPA 8260C
Acetone	0.64	ug/L	0.30 *	1.0	1	B		06/03/2019 06:26	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/03/2019 06:26	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 06:26	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/03/2019 06:26	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/03/2019 06:26	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/03/2019 06:26	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Z		06/03/2019 06:26	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/03/2019 06:26	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/03/2019 06:26	RLD	EPA 8260C
Chlorobenzene	0.058	ug/L	0.040 *	0.15	1			06/03/2019 06:26	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/03/2019 06:26	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/03/2019 06:26	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/03/2019 06:26	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.28	ug/L	0.070	0.23	1			06/03/2019 06:26	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/03/2019 06:26	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/03/2019 06:26	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/03/2019 06:26	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/03/2019 06:26	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/03/2019 06:26	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/03/2019 06:26	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286331 Sample Description: MW-112

License/Well #: 00467/121

Sampled: 05/22/2019 1615

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/03/2019 06:26	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/03/2019 06:26	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/03/2019 06:26	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/03/2019 06:26	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/03/2019 06:26	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/03/2019 06:26	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/03/2019 06:26	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/03/2019 06:26	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/03/2019 06:26	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 06:26	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/03/2019 06:26	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/03/2019 06:26	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/03/2019 06:26	RLD	EPA 8260C
Tetrachloroethene	0.25	ug/L	0.050	0.18	1			06/03/2019 06:26	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/03/2019 06:26	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/03/2019 06:26	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/03/2019 06:26	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/03/2019 06:26	RLD	EPA 8260C
Trichloroethene	0.99	ug/L	0.050	0.17	1			06/03/2019 06:26	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/03/2019 06:26	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/03/2019 06:26	RLD	EPA 8260C
Vinyl chloride	0.031	ug/L	0.019 *	0.064	1			06/03/2019 06:26	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	86.0	106	1			06/03/2019 06:26	RLD	EPA 8260C
Bromofluorobenzene	98	% Recovery	75.0	124	1			06/03/2019 06:26	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1			06/03/2019 06:26	RLD	EPA 8260C
Dibromofluoromethane	101	% Recovery	94.0	105	1			06/03/2019 06:26	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286332 Sample Description: MW-104 License/Well #: 00467/113 Sampled: 05/22/2019 1655

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate+Nitrite Nitrogen Total	<0.12	mg/L	0.12	0.40	1			05/24/2019 11:54	TMG	EPA 9056A
Total Sulfate	29	mg/L	0.80	2.5	1			05/24/2019 11:54	TMG	EPA 9056A
Metals Results										
Total Manganese	145	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 19:52	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 13:43	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 13:43	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/02/2019 13:43	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/02/2019 13:43	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 13:43	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/02/2019 13:43	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/02/2019 13:43	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 13:43	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	Y		06/02/2019 13:43	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 13:43	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 13:43	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/02/2019 13:43	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/02/2019 13:43	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 13:43	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/02/2019 13:43	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/02/2019 13:43	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/02/2019 13:43	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 13:43	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/02/2019 13:43	RLD	EPA 8260C
1,4-Dichlorobenzene	1.6	ug/L	0.040	0.13	1			06/02/2019 13:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286332 Sample Description: MW-104

License/Well #: 00467/113

Sampled: 05/22/2019 1655

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/02/2019 13:43	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/02/2019 13:43	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/02/2019 13:43	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/02/2019 13:43	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/02/2019 13:43	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/02/2019 13:43	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/02/2019 13:43	RLD	EPA 8260C
Acetone	2.2	ug/L	0.30	1.0	1	B		06/02/2019 13:43	RLD	EPA 8260C
Benzene	0.15	ug/L	0.018	0.059	1			06/02/2019 13:43	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 13:43	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/02/2019 13:43	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/02/2019 13:43	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/02/2019 13:43	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Y		06/02/2019 13:43	RLD	EPA 8260C
Carbon disulfide	0.16	ug/L	0.070 *	0.25	1			06/02/2019 13:43	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/02/2019 13:43	RLD	EPA 8260C
Chlorobenzene	3.6	ug/L	0.040	0.15	1			06/02/2019 13:43	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/02/2019 13:43	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/02/2019 13:43	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 13:43	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.20	ug/L	0.070 *	0.23	1			06/02/2019 13:43	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/02/2019 13:43	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/02/2019 13:43	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 13:43	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 13:43	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/02/2019 13:43	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 13:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286332 Sample Description: MW-104

License/Well #: 00467/113

Sampled: 05/22/2019 1655

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/02/2019 13:43	RLD	EPA 8260C
Isopropylbenzene	0.17	ug/L	0.040	0.12	1			06/02/2019 13:43	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/02/2019 13:43	RLD	EPA 8260C
Methyl tert-butyl ether	0.054	ug/L	0.040 *	0.12	1			06/02/2019 13:43	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/02/2019 13:43	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/02/2019 13:43	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 13:43	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/02/2019 13:43	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/02/2019 13:43	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/02/2019 13:43	RLD	EPA 8260C
sec-Butylbenzene	0.061	ug/L	0.050 *	0.16	1			06/02/2019 13:43	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/02/2019 13:43	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/02/2019 13:43	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/02/2019 13:43	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/02/2019 13:43	RLD	EPA 8260C
Toluene	0.041	ug/L	0.040 *	0.13	1			06/02/2019 13:43	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/02/2019 13:43	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/02/2019 13:43	RLD	EPA 8260C
Trichloroethene	0.054	ug/L	0.050 *	0.17	1			06/02/2019 13:43	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/02/2019 13:43	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	Y		06/02/2019 13:43	RLD	EPA 8260C
Vinyl chloride	0.72	ug/L	0.019	0.064	1			06/02/2019 13:43	RLD	EPA 8260C
1,2 Dichloroethane-d4	96	% Recovery	86.0	106	1			06/02/2019 13:43	RLD	EPA 8260C
Bromofluorobenzene	99	% Recovery	75.0	124	1			06/02/2019 13:43	RLD	EPA 8260C
d8-Toluene	98	% Recovery	94.0	105	1			06/02/2019 13:43	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	94.0	105	1			06/02/2019 13:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286333	Sample Description: DUP-1	License #:00467	Sampled: 05/22/2019
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate+Nitrite Nitrogen Total	<0.12	mg/L	0.12	0.40	1			05/24/2019 13:54	TMG	EPA 9056A
Total Sulfate	62	mg/L	0.80	2.5	1			05/24/2019 13:54	TMG	EPA 9056A
Metals Results										
Total Manganese	67.1	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 19:59	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:11	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 14:11	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/02/2019 14:11	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/02/2019 14:11	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 14:11	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/02/2019 14:11	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/02/2019 14:11	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:11	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	Y		06/02/2019 14:11	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 14:11	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 14:11	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/02/2019 14:11	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/02/2019 14:11	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:11	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/02/2019 14:11	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/02/2019 14:11	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/02/2019 14:11	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:11	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:11	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:11	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286333	Sample Description: DUP-1	License #:00467	Sampled: 05/22/2019
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/02/2019 14:11	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/02/2019 14:11	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/02/2019 14:11	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/02/2019 14:11	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/02/2019 14:11	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/02/2019 14:11	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/02/2019 14:11	RLD	EPA 8260C
Acetone	0.38	ug/L	0.30 *	1.0	1	B		06/02/2019 14:11	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/02/2019 14:11	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 14:11	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/02/2019 14:11	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/02/2019 14:11	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/02/2019 14:11	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Y		06/02/2019 14:11	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/02/2019 14:11	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/02/2019 14:11	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 14:11	RLD	EPA 8260C
Chloroethane	0.28	ug/L	0.070	0.23	1			06/02/2019 14:11	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/02/2019 14:11	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:11	RLD	EPA 8260C
cis-1,2-Dichloroethene	1.7	ug/L	0.070	0.23	1			06/02/2019 14:11	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/02/2019 14:11	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/02/2019 14:11	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 14:11	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 14:11	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/02/2019 14:11	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 14:11	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286333	Sample Description: DUP-1	License #:00467	Sampled: 05/22/2019
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/02/2019 14:11	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 14:11	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/02/2019 14:11	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/02/2019 14:11	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/02/2019 14:11	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/02/2019 14:11	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:11	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/02/2019 14:11	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/02/2019 14:11	RLD	EPA 8260C
p-Isopropyltoluene	0.15	ug/L	0.040	0.13	1			06/02/2019 14:11	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/02/2019 14:11	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/02/2019 14:11	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/02/2019 14:11	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/02/2019 14:11	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/02/2019 14:11	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:11	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/02/2019 14:11	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/02/2019 14:11	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/02/2019 14:11	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/02/2019 14:11	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	Y		06/02/2019 14:11	RLD	EPA 8260C
Vinyl chloride	6.8	ug/L	0.019	0.064	1			06/02/2019 14:11	RLD	EPA 8260C
1,2 Dichloroethane-d4	95	% Recovery	86.0	106	1			06/02/2019 14:11	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	75.0	124	1			06/02/2019 14:11	RLD	EPA 8260C
d8-Toluene	96	% Recovery	94.0	105	1			06/02/2019 14:11	RLD	EPA 8260C
Dibromofluoromethane	97	% Recovery	94.0	105	1			06/02/2019 14:11	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286334	Sample Description: DUP-2	License #:00467	Sampled: 05/22/2019
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate+Nitrite Nitrogen Total	<0.12	mg/L	0.12	0.40	1			05/24/2019 14:14	TMG	EPA 9056A
Total Sulfate	62	mg/L	0.80	2.5	1			05/24/2019 14:14	TMG	EPA 9056A
Metals Results										
Total Manganese	32.8	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 21:14	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:40	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 14:40	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/02/2019 14:40	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/02/2019 14:40	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 14:40	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/02/2019 14:40	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/02/2019 14:40	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:40	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	Y		06/02/2019 14:40	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 14:40	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 14:40	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/02/2019 14:40	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/02/2019 14:40	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:40	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/02/2019 14:40	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/02/2019 14:40	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/02/2019 14:40	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:40	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:40	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:40	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286334	Sample Description: DUP-2	License #:00467	Sampled: 05/22/2019
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/02/2019 14:40	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/02/2019 14:40	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/02/2019 14:40	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/02/2019 14:40	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/02/2019 14:40	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/02/2019 14:40	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/02/2019 14:40	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/02/2019 14:40	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/02/2019 14:40	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 14:40	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/02/2019 14:40	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/02/2019 14:40	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/02/2019 14:40	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Y		06/02/2019 14:40	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/02/2019 14:40	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/02/2019 14:40	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 14:40	RLD	EPA 8260C
Chloroethane	0.80	ug/L	0.070	0.23	1			06/02/2019 14:40	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/02/2019 14:40	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:40	RLD	EPA 8260C
cis-1,2-Dichloroethene	2.4	ug/L	0.070	0.23	1			06/02/2019 14:40	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/02/2019 14:40	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/02/2019 14:40	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 14:40	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 14:40	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/02/2019 14:40	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 14:40	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286334	Sample Description: DUP-2	License #:00467	Sampled: 05/22/2019
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/02/2019 14:40	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 14:40	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/02/2019 14:40	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/02/2019 14:40	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/02/2019 14:40	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/02/2019 14:40	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:40	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/02/2019 14:40	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/02/2019 14:40	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:40	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/02/2019 14:40	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/02/2019 14:40	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/02/2019 14:40	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/02/2019 14:40	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/02/2019 14:40	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/02/2019 14:40	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/02/2019 14:40	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/02/2019 14:40	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/02/2019 14:40	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/02/2019 14:40	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	Y		06/02/2019 14:40	RLD	EPA 8260C
Vinyl chloride	3.7	ug/L	0.019	0.064	1			06/02/2019 14:40	RLD	EPA 8260C
1,2 Dichloroethane-d4	98	% Recovery	86.0	106	1			06/02/2019 14:40	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	75.0	124	1			06/02/2019 14:40	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1			06/02/2019 14:40	RLD	EPA 8260C
Dibromofluoromethane	98	% Recovery	94.0	105	1			06/02/2019 14:40	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286335 Sample Description: P-116 License/Well #: 00467/143 Sampled: 05/22/2019 2040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate+Nitrite Nitrogen Total	<0.12	mg/L	0.12	0.40	1			05/24/2019 12:14	TMG	EPA 9056A
Total Sulfate	15	mg/L	0.80	2.5	1			05/24/2019 12:14	TMG	EPA 9056A
Metals Results										
Total Manganese	162	ug/L	3.4	11	1		05/28/2019 11:09	05/30/2019 21:57	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 15:08	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 15:08	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/02/2019 15:08	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/02/2019 15:08	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 15:08	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/02/2019 15:08	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/02/2019 15:08	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 15:08	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	Y		06/02/2019 15:08	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 15:08	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 15:08	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/02/2019 15:08	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/02/2019 15:08	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 15:08	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/02/2019 15:08	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/02/2019 15:08	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/02/2019 15:08	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 15:08	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/02/2019 15:08	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 15:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286335 Sample Description: P-116

License/Well #: 00467/143

Sampled: 05/22/2019 2040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/02/2019 15:08	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/02/2019 15:08	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/02/2019 15:08	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/02/2019 15:08	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/02/2019 15:08	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/02/2019 15:08	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/02/2019 15:08	RLD	EPA 8260C
Acetone	0.75	ug/L	0.30 *	1.0	1	B		06/02/2019 15:08	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/02/2019 15:08	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 15:08	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/02/2019 15:08	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/02/2019 15:08	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/02/2019 15:08	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Y		06/02/2019 15:08	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/02/2019 15:08	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/02/2019 15:08	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 15:08	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/02/2019 15:08	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/02/2019 15:08	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 15:08	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/02/2019 15:08	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/02/2019 15:08	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/02/2019 15:08	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 15:08	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 15:08	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/02/2019 15:08	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 15:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286335 Sample Description: P-116

License/Well #: 00467/143

Sampled: 05/22/2019 2040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Toluene	0.040	ug/L	0.040 *	0.13	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	Y	06/02/2019 15:08	15:08	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	86.0	106	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Bromofluorobenzene	99	% Recovery	75.0	124	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1		06/02/2019 15:08	15:08	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	94.0	105	1		06/02/2019 15:08	15:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286370	Sample Description: TRIP BLANK	License/Well #: 00467/999	Sampled: 05/22/2019
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1	Y	06/02/2019 12:46	12:46	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/02/2019 12:46	12:46	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/02/2019 12:46	12:46	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286370 Sample Description: TRIP BLANK License/Well #: 00467/999 Sampled: 05/22/2019

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/02/2019 12:46	RLD	EPA 8260C
Acetone	0.57	ug/L	0.30 *	1.0	1	B		06/02/2019 12:46	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/02/2019 12:46	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 12:46	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/02/2019 12:46	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/02/2019 12:46	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/02/2019 12:46	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1	Y		06/02/2019 12:46	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/02/2019 12:46	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/02/2019 12:46	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 12:46	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/02/2019 12:46	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/02/2019 12:46	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/02/2019 12:46	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/02/2019 12:46	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/02/2019 12:46	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/02/2019 12:46	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/02/2019 12:46	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/02/2019 12:46	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/02/2019 12:46	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/02/2019 12:46	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/02/2019 12:46	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/02/2019 12:46	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/02/2019 12:46	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/02/2019 12:46	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/02/2019 12:46	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/02/2019 12:46	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 286370	Sample Description: TRIP BLANK	License/Well #: 00467/999	Sampled: 05/22/2019
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/02/2019 12:46	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/02/2019 12:46	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/02/2019 12:46	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/02/2019 12:46	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/02/2019 12:46	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/02/2019 12:46	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/02/2019 12:46	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/02/2019 12:46	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/02/2019 12:46	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/02/2019 12:46	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/02/2019 12:46	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/02/2019 12:46	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/02/2019 12:46	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/02/2019 12:46	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1	Y		06/02/2019 12:46	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			06/02/2019 12:46	RLD	EPA 8260C
1,2 Dichloroethane-d4	102	% Recovery	86.0	106	1			06/02/2019 12:46	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	75.0	124	1			06/02/2019 12:46	RLD	EPA 8260C
d8-Toluene	99	% Recovery	94.0	105	1			06/02/2019 12:46	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	94.0	105	1			06/02/2019 12:46	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates Value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached. This report has been specifically prepared to satisfy project or program requirements.

Submitted by: Brett M. Szymanski
 Project Manager
 608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 Louisiana NELAP (primary) ID# ACC20160002
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 Maryland Lab ID# WI00061
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID ACC20160002

Preventative Action Limit (PAL) Exceedances

06/11/2019

Location/Landfill: **RIPON FF/NN LANDFILL**

License #: **00467**

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Well Description: MW-103		Well #: 112		Sample Date		05/22/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Nitrate+Nitrite Nitrogen Total	00630	21	2	10	0.60	mg/L
Total Sulfate	00945	150	125.00	250.00	4.0	mg/L
Total Manganese	01055	62.4	60	300	3.4	ug/L
Trichloroethene	39180	1.4	0.5	5	0.050	ug/L

Well Description: MW-104		Well #: 113		Sample Date		05/22/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	145	60	300	3.4	ug/L
Vinyl chloride	39175	0.72	0.02	0.20	0.019	ug/L

Well Description: MW-112		Well #: 121		Sample Date		05/22/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Nitrate+Nitrite Nitrogen Total	00630	2.2	2	10	0.12	mg/L
Total Manganese	01055	368	60	300	3.4	ug/L
Trichloroethene	39180	0.99	0.5	5	0.050	ug/L
Vinyl chloride	39175	0.031	0.02	0.20	0.019	ug/L

Well Description: MW-3A		Well #: 133		Sample Date		05/21/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	491	60	300	3.4	ug/L

Well Description: MW-3B		Well #: 134		Sample Date		05/21/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	75.7	60	300	3.4	ug/L
Vinyl chloride	39175	0.058	0.02	0.20	0.019	ug/L

Well Description: P-103		Well #: 114		Sample Date		05/22/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	93.5	60	300	3.4	ug/L
Vinyl chloride	39175	0.036	0.02	0.20	0.019	ug/L

Well Description: P-103D		Well #: 141		Sample Date		05/22/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	89.5	60	300	3.4	ug/L
Vinyl chloride	39175	0.31	0.02	0.20	0.019	ug/L

Well Description: P-106		Well #: 116		Sample Date		05/22/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	66.4	60	300	3.4	ug/L

Preventative Action Limit (PAL) Exceedances

06/11/2019

Location/Landfill: **RIPON FF/NN LANDFILL**

License #: **00467**

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Well Description: P-107		Well #: 118		Sample Date		05/21/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	148	60	300	3.4	ug/L
Vinyl chloride	39175	0.95	0.02	0.20	0.019	ug/L

Well Description: P-107D		Well #: 119		Sample Date		05/21/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	227	60	300	3.4	ug/L
Vinyl chloride	39175	5.2	0.02	0.20	0.019	ug/L

Well Description: P-111D		Well #: 130		Sample Date		05/22/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Vinyl chloride	39175	4.2	0.02	0.20	0.019	ug/L

Well Description: P-114		Well #: 140		Sample Date		05/22/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	68.5	60	300	3.4	ug/L
Vinyl chloride	39175	7.3	0.02	0.20	0.019	ug/L

Well Description: P-115		Well #: 142		Sample Date		05/22/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	140	60	300	3.4	ug/L
Vinyl chloride	39175	0.94	0.02	0.20	0.019	ug/L

Well Description: P-116		Well #: 143		Sample Date		05/22/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	162	60	300	3.4	ug/L

Well Description: P-117		Well #: 144		Sample Date		05/21/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	228	60	300	3.4	ug/L
Vinyl chloride	39175	1.2	0.02	0.20	0.019	ug/L

Well Description: P-118		Well #: 145		Sample Date		05/21/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	118	60	300	3.4	ug/L
Vinyl chloride	39175	0.057	0.02	0.20	0.019	ug/L

Well Description: RHODE		Well #: 207		Sample Date		05/22/2019
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Manganese	01055	63.2	60	300	3.4	ug/L

Preventative Action Limit (PAL) Exceedances

06/11/2019

Location/Landfill: RIPON FF/NN LANDFILL

License #:

00467

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QC SUMMARY REPORT

TRC ENVIRONMENTAL

Project Name: RIPON FF/NN LANDFILL

SDG #: 0

Folder #: 145294

Project #: 327275.0001.0002

Duplicate

Analytical Run #:	161191	Analysis Date:	05/24/2019	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	287310	Analysis Time:	18:35	Prep Date/Time:	Method:	SW9056A
Parent Sample #:	286326	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrate+Nitrite Nitrogen Total	0.120	mg/L	0	U				0	20
Total Sulfate	40.1	mg/L	40					0	10

Lab Control Spike Water

Analytical Run #:	161191	Analysis Date:	05/24/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	287305	Analysis Time:	08:53	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfate	24.73	mg/L			25.00	99	80 --- 120		

Method Blank Water

Analytical Run #:	161191	Analysis Date:	05/24/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	287304	Analysis Time:	09:14	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfate	0.8	mg/L		U	0		0.8		

Matrix Spike Water

Analytical Run #:	161191	Analysis Date:	05/24/2019	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	287309	Analysis Time:	18:55	Prep Date/Time:	Method:	SW9056A
Parent Sample #:	286326	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrate+Nitrite Nitrogen Total	4.07	mg/L	BDL		4.00	102	80 --- 120		20
Total Sulfate	46.1	mg/L	40		8.00	76	49 --- 120		20

Duplicate

Analytical Run #:	161384	Analysis Date:	05/31/2019	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	289319	Analysis Time:	19:27	Prep Date/Time:	Method:	SW9056A
Parent Sample #:	286289	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Sulfate	22.0	mg/L	22					0	10

Lab Control Spike Water

Analytical Run #:	161384	Analysis Date:	05/31/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	289313	Analysis Time:	13:40	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfate	24.93	mg/L			25.00	100	80 --- 120		

Method Blank Water

Analytical Run #:	161384	Analysis Date:	05/31/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	289314	Analysis Time:	13:59	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfate	0.8	mg/L		U	0		0.8		

Matrix Spike Water

Analytical Run #:	161384	Analysis Date:	05/31/2019	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	289320	Analysis Time:	19:46	Prep Date/Time:	Method:	SW9056A
Parent Sample #:	286289	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Sulfate	28.7	mg/L	22		8.00	84	49 --- 120		20

Duplicate

Analytical Run #:	161385	Analysis Date:	06/03/2019	Prep Batch #:	Matrix:	LEACHATE
CTLab #:	289344	Analysis Time:	11:31	Prep Date/Time:	Method:	SW9056A
Parent Sample #:	286317	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Sulfate	590	mg/L	640					8	11

Lab Control Spike Water

Analytical Run #:	161385	Analysis Date:	05/31/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	289330	Analysis Time:	13:40	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfate	24.93	mg/L			25.00	100	80 --- 120		

Method Blank Water

Analytical Run #:	161385	Analysis Date:	05/31/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	289331	Analysis Time:	13:59	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfate	0.8	mg/L		U	0		0.8		

Matrix Spike Water

Analytical Run #:	161385	Analysis Date:	06/03/2019	Prep Batch #:	Matrix:	LEACHATE
CTLab #:	289345	Analysis Time:	11:50	Prep Date/Time:	Method:	SW9056A
Parent Sample #:	286317	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Sulfate	1340	mg/L	640		800	88	4 --- 187		20

Lab Control Spike Water

Analytical Run #:	161292	Analysis Date:	05/30/2019	Prep Batch #:	72136	Matrix:	LIQUID
CTLab #:	287245	Analysis Time:	16:48	Prep Date/Time:	05/28/2019 11:09	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	198.0	ug/L			200.0	99	80 --- 120		

Method Blank Water

Analytical Run #:	161292	Analysis Date:	05/30/2019	Prep Batch #:	72136	Matrix:	LIQUID
CTLab #:	287244	Analysis Time:	16:54	Prep Date/Time:	05/28/2019 11:09	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	3.4	ug/L		U	0		3.4		

Matrix Spike Duplicate Water

Analytical Run #:	161292	Analysis Date:	05/30/2019	Prep Batch #:	72136	Matrix:	GROUND WATER
CTLab #:	287247	Analysis Time:	17:13	Prep Date/Time:	05/28/2019 11:09	Method:	SW6010
Parent Sample #:	287246	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	410	ug/L	227		200	92	84 --- 111	0	7

Matrix Spike Water

Analytical Run #:	161292	Analysis Date:	05/30/2019	Prep Batch #:	72136	Matrix:	GROUND WATER
CTLab #:	287246	Analysis Time:	17:07	Prep Date/Time:	05/28/2019 11:09	Method:	SW6010
Parent Sample #:	286279	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	412	ug/L	227		200	92	84 --- 111		

Lab Control Spike Water

Analytical Run #:	161298	Analysis Date:	05/30/2019	Prep Batch #:	72137	Matrix:	LIQUID
CTLab #:	287249	Analysis Time:	20:06	Prep Date/Time:	05/28/2019 11:09	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	208.0	ug/L			200.0	104	80 --- 120		

Method Blank Water

Analytical Run #:	161298	Analysis Date:	05/30/2019	Prep Batch #:	72137	Matrix:	LIQUID
CTLab #:	287248	Analysis Time:	20:12	Prep Date/Time:	05/28/2019 11:09	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	3.4	ug/L		U	0		3.4		

Matrix Spike Duplicate Water

Analytical Run #:	161298	Analysis Date:	05/30/2019	Prep Batch #:	72137	Matrix:	LEACHATE
CTLab #:	287251	Analysis Time:	20:48	Prep Date/Time:	05/28/2019 11:09	Method:	SW6010
Parent Sample #:	287250	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	22200	ug/L	26200		400	0	75 --- 125	18	13

Matrix Spike Duplicate Water

Analytical Run #:	161298	Analysis Date:	05/30/2019	Prep Batch #:	72137	Matrix:	GROUND WATER
CTLab #:	287253	Analysis Time:	21:27	Prep Date/Time:	05/28/2019 11:09	Method:	SW6010
Parent Sample #:	287252	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	236	ug/L	32.8		200	102	84 --- 111	1	7

Matrix Spike Water

Analytical Run #:	161298	Analysis Date:	05/30/2019	Prep Batch #:	72137	Matrix:	LEACHATE
CTLab #:	287250	Analysis Time:	20:42	Prep Date/Time:	05/28/2019 11:09	Method:	SW6010
Parent Sample #:	286290	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	26600	ug/L	26200		400	100	75 --- 125		

Matrix Spike Water

Analytical Run #:	161298	Analysis Date:	05/30/2019	Prep Batch #:	72137	Matrix:	GROUND WATER
CTLab #:	287252	Analysis Time:	21:21	Prep Date/Time:	05/28/2019 11:09	Method:	SW6010
Parent Sample #:	286334	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Manganese	239	ug/L	32.8		200	103	84 --- 111		

Lab Control Spike Water

Analytical Run #: 161128	Analysis Date: 05/25/2019	Prep Batch #:	Matrix: LIQUID
CTLab #: 286577	Analysis Time: 07:51	Prep Date/Time:	Method: 524
Parent Sample #:	Analyst: DGS	Prep Analyst:	

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.06	ug/L			4.00	102	80 --- 120		20
1,1,1-Trichloroethane	4.27	ug/L			4.00	107	80 --- 120		20
1,1,2,2-Tetrachloroethane	3.83	ug/L			4.00	96	80 --- 120		20
1,1,2-Trichloroethane	4.34	ug/L			4.00	108	80 --- 120		20
1,1-Dichloroethane	4.37	ug/L			4.00	109	80 --- 120		20
1,1-Dichloroethene	3.72	ug/L			4.00	93	80 --- 120		20
1,1-Dichloropropene	4.29	ug/L			4.00	107	80 --- 120		20
1,2,3-Trichlorobenzene	3.83	ug/L			4.00	96	80 --- 120		20
1,2,3-Trichloropropane	3.58	ug/L			4.00	90	80 --- 120		20
1,2,4-Trichlorobenzene	3.64	ug/L			4.00	91	80 --- 120		20
1,2,4-Trimethylbenzene	3.80	ug/L			4.00	95	80 --- 120		20
1,2-Dichlorobenzene	3.72	ug/L			4.00	93	80 --- 120		20
1,2-Dichlorobenzene-d4	95.0	% Recovery			100	95.0	80 --- 120		20
1,2-Dichloroethane	4.39	ug/L			4.00	110	80 --- 120		20
1,2-Dichloropropane	4.32	ug/L			4.00	108	80 --- 120		20
1,3,5-Trimethylbenzene	3.55	ug/L			4.00	89	80 --- 120		20
1,3-Dichlorobenzene	3.77	ug/L			4.00	94	80 --- 120		20
1,3-Dichloropropane	4.07	ug/L			4.00	102	80 --- 120		20
1,4-Dichlorobenzene	3.95	ug/L			4.00	99	80 --- 120		20
2,2-Dichloropropane	4.10	ug/L			4.00	102	80 --- 120		20
2-Chlorotoluene	3.56	ug/L			4.00	89	80 --- 120		20
4-Chlorotoluene	3.66	ug/L			4.00	92	80 --- 120		20
Benzene	4.21	ug/L			4.00	105	80 --- 120		20
Bromobenzene	3.59	ug/L			4.00	90	80 --- 120		20
Bromochloromethane	4.13	ug/L			4.00	103	80 --- 120		20
Bromodichloromethane	4.67	ug/L			4.00	117	80 --- 120		20
Bromofluorobenzene	99.0	% Recovery			100	99.0	80 --- 120		20
Bromoform	3.99	ug/L			4.00	100	80 --- 120		20
Bromomethane	4.76	ug/L			4.00	119	80 --- 120		20
Carbon tetrachloride	3.87	ug/L			4.00	97	80 --- 120		20
Chlorobenzene	3.92	ug/L			4.00	98	80 --- 120		20
Chlorodibromomethane	4.11	ug/L			4.00	103	80 --- 120		20
Chloroethane	4.22	ug/L			4.00	106	80 --- 120		20
Chloroform	4.48	ug/L			4.00	112	80 --- 120		20
Chloromethane	3.71	ug/L			4.00	93	80 --- 120		20
cis-1,2-Dichloroethene	4.25	ug/L			4.00	106	80 --- 120		20
cis-1,3-Dichloropropene	4.19	ug/L			4.00	105	80 --- 120		20
Dibromomethane	4.40	ug/L			4.00	110	80 --- 120		20
Dichlorodifluoromethane	4.10	ug/L			4.00	102	80 --- 120		20
Ethylbenzene	3.83	ug/L			4.00	96	80 --- 120		20
Hexachlorobutadiene	3.65	ug/L			4.00	91	80 --- 120		20
Isopropylbenzene	3.71	ug/L			4.00	93	80 --- 120		20

Lab Control Spike Water

Analytical Run #:	161128	Analysis Date:	05/25/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	286577	Analysis Time:	07:51	Prep Date/Time:	Method:	524
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl tert-butyl ether	3.68	ug/L			4.00	92	80 --- 120		20
Methylene chloride	4.09	ug/L			4.00	102	80 --- 120		20
n-Butylbenzene	3.93	ug/L			4.00	98	80 --- 120		20
n-Propylbenzene	3.78	ug/L			4.00	94	80 --- 120		20
Naphthalene	3.38	ug/L			4.00	84	80 --- 120		20
p-Isopropyltoluene	3.78	ug/L			4.00	94	80 --- 120		20
sec-Butylbenzene	3.99	ug/L			4.00	100	80 --- 120		20
Styrene	3.96	ug/L			4.00	99	80 --- 120		20
tert-Butylbenzene	3.86	ug/L			4.00	96	80 --- 120		20
Tetrachloroethene	4.49	ug/L			4.00	112	80 --- 120		20
Toluene	4.10	ug/L			4.00	102	80 --- 120		20
trans-1,2-Dichloroethene	4.09	ug/L			4.00	102	80 --- 120		20
trans-1,3-Dichloropropene	4.14	ug/L			4.00	104	80 --- 120		20
Trichloroethene	4.12	ug/L			4.00	103	80 --- 120		20
Trichlorofluoromethane	3.34	ug/L			4.00	84	80 --- 120		20
Vinyl chloride	4.55	ug/L			4.00	114	80 --- 120		20

Lab Control Spike Water

Analytical Run #:	161128	Analysis Date:	05/24/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	289461	Analysis Time:	16:08	Prep Date/Time:	Method:	524
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.20	ug/L			4.00	105	80 --- 120		20
1,1,1-Trichloroethane	3.90	ug/L			4.00	98	80 --- 120		20
1,1,2,2-Tetrachloroethane	3.86	ug/L			4.00	96	80 --- 120		20
1,1,2-Trichloroethane	4.16	ug/L			4.00	104	80 --- 120		20
1,1-Dichloroethane	3.94	ug/L			4.00	98	80 --- 120		20
1,1-Dichloroethene	3.68	ug/L			4.00	92	80 --- 120		20
1,1-Dichloropropene	4.17	ug/L			4.00	104	80 --- 120		20
1,2,3-Trichlorobenzene	4.23	ug/L			4.00	106	80 --- 120		20
1,2,3-Trichloropropane	3.78	ug/L			4.00	94	80 --- 120		20
1,2,4-Trichlorobenzene	3.87	ug/L			4.00	97	80 --- 120		20
1,2,4-Trimethylbenzene	3.91	ug/L			4.00	98	80 --- 120		20
1,2-Dichlorobenzene	4.01	ug/L			4.00	100	80 --- 120		20
1,2-Dichlorobenzene-d4	98.0	% Recovery			100	98.0	80 --- 120		20
1,2-Dichloroethane	3.80	ug/L			4.00	95	80 --- 120		20
1,2-Dichloropropane	3.85	ug/L			4.00	96	80 --- 120		20
1,3,5-Trimethylbenzene	3.94	ug/L			4.00	98	80 --- 120		20
1,3-Dichlorobenzene	3.97	ug/L			4.00	99	80 --- 120		20
1,3-Dichloropropane	3.83	ug/L			4.00	96	80 --- 120		20
1,4-Dichlorobenzene	4.02	ug/L			4.00	100	80 --- 120		20
2,2-Dichloropropane	4.03	ug/L			4.00	101	80 --- 120		20
2-Chlorotoluene	3.82	ug/L			4.00	96	80 --- 120		20
4-Chlorotoluene	3.96	ug/L			4.00	99	80 --- 120		20
Benzene	3.96	ug/L			4.00	99	80 --- 120		20
Bromobenzene	3.97	ug/L			4.00	99	80 --- 120		20
Bromochloromethane	3.92	ug/L			4.00	98	80 --- 120		20
Bromodichloromethane	4.04	ug/L			4.00	101	80 --- 120		20
Bromofluorobenzene	99.0	% Recovery			100	99.0	80 --- 120		20
Bromoform	3.91	ug/L			4.00	98	80 --- 120		20
Bromomethane	4.71	ug/L			4.00	118	80 --- 120		20
Carbon tetrachloride	3.42	ug/L			4.00	86	80 --- 120		20
Chlorobenzene	3.89	ug/L			4.00	97	80 --- 120		20
Chlorodibromomethane	4.21	ug/L			4.00	105	80 --- 120		20
Chloroethane	3.60	ug/L			4.00	90	80 --- 120		20
Chloroform	4.06	ug/L			4.00	102	80 --- 120		20
Chloromethane	3.40	ug/L			4.00	85	80 --- 120		20
cis-1,2-Dichloroethene	4.08	ug/L			4.00	102	80 --- 120		20
cis-1,3-Dichloropropene	4.02	ug/L			4.00	100	80 --- 120		20
Dibromomethane	4.02	ug/L			4.00	100	80 --- 120		20
Dichlorodifluoromethane	3.78	ug/L			4.00	94	80 --- 120		20
Ethylbenzene	4.08	ug/L			4.00	102	80 --- 120		20
Hexachlorobutadiene	3.82	ug/L			4.00	96	80 --- 120		20
Isopropylbenzene	4.00	ug/L			4.00	100	80 --- 120		20

Lab Control Spike Water

Analytical Run #:	161128	Analysis Date:	05/24/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	289461	Analysis Time:	16:08	Prep Date/Time:	Method:	524
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl tert-butyl ether	3.90	ug/L			4.00	98	80 --- 120		20
Methylene chloride	3.86	ug/L			4.00	96	80 --- 120		20
n-Butylbenzene	4.28	ug/L			4.00	107	80 --- 120		20
n-Propylbenzene	4.17	ug/L			4.00	104	80 --- 120		20
Naphthalene	4.01	ug/L			4.00	100	80 --- 120		20
p-Isopropyltoluene	4.27	ug/L			4.00	107	80 --- 120		20
sec-Butylbenzene	4.34	ug/L			4.00	108	80 --- 120		20
Styrene	3.97	ug/L			4.00	99	80 --- 120		20
tert-Butylbenzene	4.29	ug/L			4.00	107	80 --- 120		20
Tetrachloroethene	4.22	ug/L			4.00	106	80 --- 120		20
Toluene	3.81	ug/L			4.00	95	80 --- 120		20
trans-1,2-Dichloroethene	3.82	ug/L			4.00	96	80 --- 120		20
trans-1,3-Dichloropropene	3.90	ug/L			4.00	98	80 --- 120		20
Trichloroethene	3.64	ug/L			4.00	91	80 --- 120		20
Trichlorofluoromethane	3.49	ug/L			4.00	87	80 --- 120		20
Vinyl chloride	4.00	ug/L			4.00	100	80 --- 120		20

Method Blank Water

Analytical Run #:	161128	Analysis Date:	05/24/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	286565	Analysis Time:	16:39	Prep Date/Time:	Method:	524
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.3	ug/L		U	0		0.3		
1,1,1-Trichloroethane	0.28	ug/L		U	0		0.28		
1,1,2,2-Tetrachloroethane	0.5	ug/L		U	0		0.5		
1,1,2-Trichloroethane	0.4	ug/L		U	0		0.4		
1,1-Dichloroethane	0.28	ug/L		U	0		0.28		
1,1-Dichloroethene	0.3	ug/L		U	0		0.3		
1,1-Dichloropropene	0.3	ug/L		U	0		0.3		
1,2,3-Trichlorobenzene	0.5	ug/L		U	0		0.5		
1,2,3-Trichloropropane	0.25	ug/L		U	0		0.25		
1,2,4-Trichlorobenzene	0.4	ug/L		U	0		0.4		
1,2,4-Trimethylbenzene	0.3	ug/L		U	0		0.3		
1,2-Dichlorobenzene	0.4	ug/L		U	0		0.4		
1,2-Dichlorobenzene-d4	105	% Recovery			100	105	80 --- 120		
1,2-Dichloroethane	0.23	ug/L		U	0		0.23		
1,2-Dichloropropane	0.3	ug/L		U	0		0.3		
1,3,5-Trimethylbenzene	0.29	ug/L		U	0		0.29		
1,3-Dichlorobenzene	0.26	ug/L		U	0		0.26		
1,3-Dichloropropane	0.3	ug/L		U	0		0.3		
1,4-Dichlorobenzene	0.29	ug/L		U	0		0.29		
2,2-Dichloropropane	0.4	ug/L		U	0		0.4		
2-Chlorotoluene	0.3	ug/L		U	0		0.3		
4-Chlorotoluene	0.4	ug/L		U	0		0.4		
Benzene	0.26	ug/L		U	0		0.26		
Bromobenzene	0.4	ug/L		U	0		0.4		
Bromochloromethane	0.4	ug/L		U	0		0.4		
Bromodichloromethane	0.24	ug/L		U	0		0.24		
Bromofluorobenzene	104	% Recovery			100	104	80 --- 120		
Bromoform	0.4	ug/L		U	0		0.4		
Bromomethane	0.4	ug/L		U	0		0.4		
Carbon tetrachloride	0.28	ug/L		U	0		0.28		
Chlorobenzene	0.25	ug/L		U	0		0.25		
Chlorodibromomethane	0.4	ug/L		U	0		0.4		
Chloroethane	0.4	ug/L		U	0		0.4		
Chloroform	0.23	ug/L		U	0		0.23		
Chloromethane	0.19	ug/L		U	0		0.19		
cis-1,2-Dichloroethene	0.28	ug/L		U	0		0.28		
cis-1,3-Dichloropropene	0.22	ug/L		U	0		0.22		
Dibromomethane	0.3	ug/L		U	0		0.3		
Dichlorodifluoromethane	0.3	ug/L		U	0		0.3		
Ethylbenzene	0.27	ug/L		U	0		0.27		
Hexachlorobutadiene	0.4	ug/L		U	0		0.4		
Isopropylbenzene	0.29	ug/L		U	0		0.29		

Method Blank Water

Analytical Run #:	161128	Analysis Date:	05/24/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	286565	Analysis Time:	16:39	Prep Date/Time:	Method:	524
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl tert-butyl ether	0.26	ug/L		U	0		0.26		
Methylene chloride	0.30	ug/L		U	0		0.30		
n-Butylbenzene	0.3	ug/L		U	0		0.3		
n-Propylbenzene	0.26	ug/L		U	0		0.26		
Naphthalene	0.5	ug/L		U	0		0.5		
p-Isopropyltoluene	0.25	ug/L		U	0		0.25		
sec-Butylbenzene	0.26	ug/L		U	0		0.26		
Styrene	0.3	ug/L		U	0		0.3		
tert-Butylbenzene	0.24	ug/L		U	0		0.24		
Tetrachloroethene	0.26	ug/L		U	0		0.26		
Toluene	0.25	ug/L		U	0		0.25		
trans-1,2-Dichloroethene	0.23	ug/L		U	0		0.23		
trans-1,3-Dichloropropene	0.28	ug/L		U	0		0.28		
Trichloroethene	0.3	ug/L		U	0		0.3		
Trichlorofluoromethane	0.24	ug/L		U	0		0.24		
Vinyl chloride	0.17	ug/L		U	0		0.17		

Method Blank Water

Analytical Run #:	161128	Analysis Date:	05/25/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	289462	Analysis Time:	08:52	Prep Date/Time:	Method:	524
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.3	ug/L		U	0		0.3		
1,1,1-Trichloroethane	0.28	ug/L		U	0		0.28		
1,1,2,2-Tetrachloroethane	0.5	ug/L		U	0		0.5		
1,1,2-Trichloroethane	0.4	ug/L		U	0		0.4		
1,1-Dichloroethane	0.28	ug/L		U	0		0.28		
1,1-Dichloroethene	0.3	ug/L		U	0		0.3		
1,1-Dichloropropene	0.3	ug/L		U	0		0.3		
1,2,3-Trichlorobenzene	0.5	ug/L		U	0		0.5		
1,2,3-Trichloropropane	0.25	ug/L		U	0		0.25		
1,2,4-Trichlorobenzene	0.4	ug/L		U	0		0.4		
1,2,4-Trimethylbenzene	0.3	ug/L		U	0		0.3		
1,2-Dichlorobenzene	0.4	ug/L		U	0		0.4		
1,2-Dichlorobenzene-d4	108	% Recovery			100	108	80 --- 120		
1,2-Dichloroethane	0.23	ug/L		U	0		0.23		
1,2-Dichloropropane	0.3	ug/L		U	0		0.3		
1,3,5-Trimethylbenzene	0.29	ug/L		U	0		0.29		
1,3-Dichlorobenzene	0.26	ug/L		U	0		0.26		
1,3-Dichloropropane	0.3	ug/L		U	0		0.3		
1,4-Dichlorobenzene	0.29	ug/L		U	0		0.29		
2,2-Dichloropropane	0.4	ug/L		U	0		0.4		
2-Chlorotoluene	0.3	ug/L		U	0		0.3		
4-Chlorotoluene	0.4	ug/L		U	0		0.4		
Benzene	0.26	ug/L		U	0		0.26		
Bromobenzene	0.4	ug/L		U	0		0.4		
Bromochloromethane	0.4	ug/L		U	0		0.4		
Bromodichloromethane	0.24	ug/L		U	0		0.24		
Bromofluorobenzene	104	% Recovery			100	104	80 --- 120		
Bromoform	0.4	ug/L		U	0		0.4		
Bromomethane	0.4	ug/L		U	0		0.4		
Carbon tetrachloride	0.28	ug/L		U	0		0.28		
Chlorobenzene	0.25	ug/L		U	0		0.25		
Chlorodibromomethane	0.4	ug/L		U	0		0.4		
Chloroethane	0.4	ug/L		U	0		0.4		
Chloroform	0.23	ug/L		U	0		0.23		
Chloromethane	0.19	ug/L		U	0		0.19		
cis-1,2-Dichloroethene	0.28	ug/L		U	0		0.28		
cis-1,3-Dichloropropene	0.22	ug/L		U	0		0.22		
Dibromomethane	0.3	ug/L		U	0		0.3		
Dichlorodifluoromethane	0.3	ug/L		U	0		0.3		
Ethylbenzene	0.27	ug/L		U	0		0.27		
Hexachlorobutadiene	0.4	ug/L		U	0		0.4		
Isopropylbenzene	0.29	ug/L		U	0		0.29		

Method Blank Water

Analytical Run #:	161128	Analysis Date:	05/25/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	289462	Analysis Time:	08:52	Prep Date/Time:	Method:	524
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl tert-butyl ether	0.26	ug/L		U	0		0.26		
Methylene chloride	0.30	ug/L		U	0		0.30		
n-Butylbenzene	0.3	ug/L		U	0		0.3		
n-Propylbenzene	0.26	ug/L		U	0		0.26		
Naphthalene	0.5	ug/L		U	0		0.5		
p-Isopropyltoluene	0.25	ug/L		U	0		0.25		
sec-Butylbenzene	0.26	ug/L		U	0		0.26		
Styrene	0.3	ug/L		U	0		0.3		
tert-Butylbenzene	0.24	ug/L		U	0		0.24		
Tetrachloroethene	0.26	ug/L		U	0		0.26		
Toluene	0.25	ug/L		U	0		0.25		
trans-1,2-Dichloroethene	0.23	ug/L		U	0		0.23		
trans-1,3-Dichloropropene	0.28	ug/L		U	0		0.28		
Trichloroethene	0.3	ug/L		U	0		0.3		
Trichlorofluoromethane	0.24	ug/L		U	0		0.24		
Vinyl chloride	0.17	ug/L		U	0		0.17		

Lab Control Spike Duplicate Water

Analytical Run #:	161222	Analysis Date:	06/03/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	288924	Analysis Time:	06:55	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	288917	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.54	ug/L	4.68		4.00	114	78 --- 121	3	20
1,1,1-Trichloroethane	4.55	ug/L	4.48		4.00	114	82 --- 122	2	20
1,1,2,2-Tetrachloroethane	4.32	ug/L	4.58		4.00	108	68 --- 128	6	20
1,1,2-Trichloroethane	4.37	ug/L	4.17		4.00	109	84 --- 114	5	20
1,1-Dichloroethane	4.21	ug/L	4.03		4.00	105	76 --- 122	4	20
1,1-Dichloroethene	4.70	ug/L	4.65		4.00	118	83 --- 123	1	20
1,1-Dichloropropene	4.79	ug/L	4.63		4.00	120	85 --- 120	3	20
1,2 Dichloroethane-d4	107	% Recovery			100	107	87 --- 107		
1,2,3-Trichlorobenzene	4.72	ug/L	4.68		4.00	118	78 --- 121	1	20
1,2,3-Trichloropropane	4.42	ug/L	3.78		4.00	110	62 --- 129	16	20
1,2,4-Trichlorobenzene	4.78	ug/L	4.73		4.00	120	80 --- 120	1	20
1,2,4-Trimethylbenzene	4.67	ug/L	4.65		4.00	117	76 --- 125	0	20
1,2-Dibromo-3-chloropropane	4.29	ug/L	4.23		4.00	107	69 --- 125	1	20
1,2-Dibromoethane	4.23	ug/L	4.44		4.00	106	80 --- 118	5	20
1,2-Dichlorobenzene	4.54	ug/L	4.53		4.00	114	80 --- 117	0	20
1,2-Dichloroethane	4.02	ug/L	3.89		4.00	100	78 --- 118	3	20
1,2-Dichloropropane	4.21	ug/L	4.09		4.00	105	78 --- 121	3	20
1,3,5-Trimethylbenzene	4.62	ug/L	4.66		4.00	116	76 --- 126	1	20
1,3-Dichlorobenzene	4.64	ug/L	4.58		4.00	116	78 --- 119	1	20
1,3-Dichloropropane	4.33	ug/L	4.13		4.00	108	82 --- 117	5	20
1,4-Dichlorobenzene	4.62	ug/L	4.63		4.00	116	77 --- 118	0	20
1,4-Dioxane	211	ug/L	202		200	106	11 --- 220	4	20
2,2-Dichloropropane	3.98	ug/L	4.61		4.00	100	71 --- 133	15	20
2-Butanone	38.1	ug/L	38.7		40.0	95	80 --- 120	2	20
2-Chlorotoluene	4.48	ug/L	4.45		4.00	112	73 --- 124	1	20
2-Hexanone	44.1	ug/L	45.9		40.0	110	73 --- 127	4	20
4-Chlorotoluene	4.64	ug/L	4.62		4.00	116	74 --- 125	0	20
4-Methyl-2-pentanone	44.2	ug/L	42.4		40.0	110	77 --- 125	4	20
Acetone	34.8	ug/L	40.7		40.0	87	72 --- 117	16	20
Benzene	4.28	ug/L	4.14		4.00	107	82 --- 118	3	20
Bromobenzene	4.46	ug/L	4.50		4.00	112	77 --- 118	1	20
Bromochloromethane	4.36	ug/L	4.13		4.00	109	81 --- 116	5	20
Bromodichloromethane	4.30	ug/L	4.20		4.00	108	80 --- 122	2	20
Bromofluorobenzene	100	% Recovery			100	100	90 --- 108		
Bromoform	3.74	ug/L	4.01		4.00	94	72 --- 124	7	20
Bromomethane	2.39	ug/L	2.30		4.00	60	25 --- 156	4	20
Carbon disulfide	9.50	ug/L	9.15		8.00	119	81 --- 124	4	20
Carbon tetrachloride	4.72	ug/L	4.70		4.00	118	87 --- 129	0	20
Chlorobenzene	4.36	ug/L	4.29		4.00	109	78 --- 118	2	20
Chloroethane	4.44	ug/L	4.32		4.00	111	73 --- 126	3	20
Chloroform	4.01	ug/L	3.87		4.00	100	76 --- 119	4	20
Chloromethane	3.89	ug/L	3.75		4.00	97	70 --- 121	4	20

Lab Control Spike Duplicate Water

Analytical Run #:	161222	Analysis Date:	06/03/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	288924	Analysis Time:	06:55	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	288917	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	4.21	ug/L	4.06		4.00	105	82 --- 118	4	20
cis-1,3-Dichloropropene	4.32	ug/L	4.31		4.00	108	81 --- 123	0	20
d8-Toluene	101	% Recovery			100	101	93 --- 108		
Dibromochloromethane	4.06	ug/L	4.20		4.00	102	76 --- 124	3	20
Dibromofluoromethane	100	% Recovery			100	100	93 --- 106		
Dibromomethane	4.25	ug/L	3.96		4.00	106	83 --- 115	7	20
Dichlorodifluoromethane	4.77	ug/L	4.70		4.00	119	78 --- 126	1	20
Diisopropyl ether	4.04	ug/L	3.93		4.00	101	75 --- 125	3	20
Ethylbenzene	4.47	ug/L	4.46		4.00	112	78 --- 125	0	20
Hexachlorobutadiene	4.78	ug/L	4.62		4.00	120	79 --- 123	3	20
Isopropylbenzene	4.65	ug/L	4.63		4.00	116	81 --- 124	0	20
m & p-Xylene	9.02	ug/L	9.04		8.00	113	80 --- 123	0	20
Methyl tert-butyl ether	3.94	ug/L	3.84		4.00	98	82 --- 116	3	20
Methylene chloride	4.01	ug/L	3.95		4.00	100	73 --- 128	2	20
n-Butylbenzene	4.73	ug/L	4.52		4.00	118	76 --- 127	5	20
n-Propylbenzene	4.69	ug/L	4.70		4.00	117	75 --- 129	0	20
Naphthalene	4.33	ug/L	4.52		4.00	108	64 --- 129	4	20
o-Xylene	4.45	ug/L	4.43		4.00	111	81 --- 121	0	20
p-Isopropyltoluene	4.77	ug/L	4.64		4.00	119	79 --- 126	3	20
sec-Butylbenzene	4.79	ug/L	4.67		4.00	120	76 --- 128	3	20
Styrene	4.63	ug/L	4.57		4.00	116	81 --- 122	1	20
tert-Butylbenzene	4.67	ug/L	4.71		4.00	117	76 --- 125	1	20
Tetrachloroethene	4.64	ug/L	4.52		4.00	116	82 --- 123	3	20
Tetrahydrofuran	39.9	ug/L	39.3		40.0	100	69 --- 122	2	20
Toluene	4.35	ug/L	4.23		4.00	109	82 --- 119	3	20
trans-1,2-Dichloroethene	4.28	ug/L	4.21		4.00	107	80 --- 122	2	20
trans-1,3-Dichloropropene	4.22	ug/L	4.34		4.00	106	83 --- 119	3	20
Trichloroethene	4.28	ug/L	4.01		4.00	107	82 --- 120	7	20
Trichlorofluoromethane	4.76	ug/L	4.71		4.00	119	78 --- 130	1	20
Vinyl acetate	38.4	ug/L	46.5		40.0	96	63 --- 136	19	20
Vinyl chloride	4.66	ug/L	4.48		4.00	116	73 --- 127	4	20

Lab Control Spike Water

Analytical Run #:	161222	Analysis Date:	06/02/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	288917	Analysis Time:	20:33	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.68	ug/L			4.00	117	78 --- 121		20
1,1,1-Trichloroethane	4.48	ug/L			4.00	112	82 --- 122		20
1,1,2,2-Tetrachloroethane	4.58	ug/L			4.00	114	68 --- 128		20
1,1,2-Trichloroethane	4.17	ug/L			4.00	104	84 --- 114		20
1,1-Dichloroethane	4.03	ug/L			4.00	101	76 --- 122		20
1,1-Dichloroethene	4.65	ug/L			4.00	116	83 --- 123		20
1,1-Dichloropropene	4.63	ug/L			4.00	116	85 --- 120		20
1,2 Dichloroethane-d4	98.0	% Recovery			100	98.0	87 --- 107		
1,2,3-Trichlorobenzene	4.68	ug/L			4.00	117	78 --- 121		20
1,2,3-Trichloropropane	3.78	ug/L			4.00	94	62 --- 129		20
1,2,4-Trichlorobenzene	4.73	ug/L			4.00	118	80 --- 120		20
1,2,4-Trimethylbenzene	4.65	ug/L			4.00	116	76 --- 125		20
1,2-Dibromo-3-chloropropane	4.23	ug/L			4.00	106	69 --- 125		20
1,2-Dibromoethane	4.44	ug/L			4.00	111	80 --- 118		20
1,2-Dichlorobenzene	4.53	ug/L			4.00	113	80 --- 117		20
1,2-Dichloroethane	3.89	ug/L			4.00	97	78 --- 118		20
1,2-Dichloropropane	4.09	ug/L			4.00	102	78 --- 121		20
1,3,5-Trimethylbenzene	4.66	ug/L			4.00	116	76 --- 126		20
1,3-Dichlorobenzene	4.58	ug/L			4.00	114	78 --- 119		20
1,3-Dichloropropane	4.13	ug/L			4.00	103	82 --- 117		20
1,4-Dichlorobenzene	4.63	ug/L			4.00	116	77 --- 118		20
1,4-Dioxane	202	ug/L			200	101	11 --- 220		20
2,2-Dichloropropane	4.61	ug/L			4.00	115	71 --- 133		20
2-Butanone	38.7	ug/L			40.0	97	80 --- 120		20
2-Chlorotoluene	4.45	ug/L			4.00	111	73 --- 124		20
2-Hexanone	45.9	ug/L			40.0	115	73 --- 127		20
4-Chlorotoluene	4.62	ug/L			4.00	116	74 --- 125		20
4-Methyl-2-pentanone	42.4	ug/L			40.0	106	77 --- 125		20
Acetone	40.7	ug/L			40.0	102	72 --- 117		20
Benzene	4.14	ug/L			4.00	104	82 --- 118		20
Bromobenzene	4.50	ug/L			4.00	112	77 --- 118		20
Bromochloromethane	4.13	ug/L			4.00	103	81 --- 116		20
Bromodichloromethane	4.20	ug/L			4.00	105	80 --- 122		20
Bromofluorobenzene	100	% Recovery			100	100	90 --- 108		
Bromoform	4.01	ug/L			4.00	100	72 --- 124		20
Bromomethane	2.30	ug/L			4.00	58	25 --- 156		20
Carbon disulfide	9.15	ug/L			8.00	114	81 --- 124		20
Carbon tetrachloride	4.70	ug/L			4.00	118	87 --- 129		20
Chlorobenzene	4.29	ug/L			4.00	107	78 --- 118		20
Chloroethane	4.32	ug/L			4.00	108	73 --- 126		20
Chloroform	3.87	ug/L			4.00	97	76 --- 119		20
Chloromethane	3.75	ug/L			4.00	94	70 --- 121		20

Lab Control Spike Water

Analytical Run #: 161222	Analysis Date: 06/02/2019	Prep Batch #:	Matrix: LIQUID
CTLab #: 288917	Analysis Time: 20:33	Prep Date/Time:	Method: SW8260C
Parent Sample #:	Analyst: RLD	Prep Analyst:	

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	4.06	ug/L			4.00	102	82 --- 118		20
cis-1,3-Dichloropropene	4.31	ug/L			4.00	108	81 --- 123		20
d8-Toluene	100	% Recovery			100	100	93 --- 108		
Dibromochloromethane	4.20	ug/L			4.00	105	76 --- 124		20
Dibromofluoromethane	101	% Recovery			100	101	93 --- 106		
Dibromomethane	3.96	ug/L			4.00	99	83 --- 115		20
Dichlorodifluoromethane	4.70	ug/L			4.00	118	78 --- 126		20
Diisopropyl ether	3.93	ug/L			4.00	98	75 --- 125		20
Ethylbenzene	4.46	ug/L			4.00	112	78 --- 125		20
Hexachlorobutadiene	4.62	ug/L			4.00	116	79 --- 123		20
Isopropylbenzene	4.63	ug/L			4.00	116	81 --- 124		20
m & p-Xylene	9.04	ug/L			8.00	113	80 --- 123		20
Methyl tert-butyl ether	3.84	ug/L			4.00	96	82 --- 116		20
Methylene chloride	3.95	ug/L			4.00	99	73 --- 128		20
n-Butylbenzene	4.52	ug/L			4.00	113	76 --- 127		20
n-Propylbenzene	4.70	ug/L			4.00	118	75 --- 129		20
Naphthalene	4.52	ug/L			4.00	113	64 --- 129		20
o-Xylene	4.43	ug/L			4.00	111	81 --- 121		20
p-Isopropyltoluene	4.64	ug/L			4.00	116	79 --- 126		20
sec-Butylbenzene	4.67	ug/L			4.00	117	76 --- 128		20
Styrene	4.57	ug/L			4.00	114	81 --- 122		20
tert-Butylbenzene	4.71	ug/L			4.00	118	76 --- 125		20
Tetrachloroethene	4.52	ug/L			4.00	113	82 --- 123		20
Tetrahydrofuran	39.3	ug/L			40.0	98	69 --- 122		20
Toluene	4.23	ug/L			4.00	106	82 --- 119		20
trans-1,2-Dichloroethene	4.21	ug/L			4.00	105	80 --- 122		20
trans-1,3-Dichloropropene	4.34	ug/L			4.00	108	83 --- 119		20
Trichloroethene	4.01	ug/L			4.00	100	82 --- 120		20
Trichlorofluoromethane	4.71	ug/L			4.00	118	78 --- 130		20
Vinyl acetate	46.5	ug/L			40.0	116	63 --- 136		20
Vinyl chloride	4.48	ug/L			4.00	112	73 --- 127		20

Method Blank Water

Analytical Run #:	161222	Analysis Date:	06/02/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	288923	Analysis Time:	22:25	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.04	ug/L		U	0		0.04		
1,1,1-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1,2,2-Tetrachloroethane	0.017	ug/L		U	0		0.017		
1,1,2-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1-Dichloroethane	0.06	ug/L		U	0		0.06		
1,1-Dichloroethene	0.06	ug/L		U	0		0.06		
1,1-Dichloropropene	0.06	ug/L		U	0		0.06		
1,2 Dichloroethane-d4	105	% Recovery			100	105	68 --- 120		
1,2,3-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,3-Trichloropropane	0.04	ug/L		U	0		0.04		
1,2,4-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,4-Trimethylbenzene	0.04	ug/L		U	0		0.04		
1,2-Dibromo-3-chloropropane	0.09	ug/L		U	0		0.09		
1,2-Dibromoethane	0.07	ug/L		U	0		0.07		
1,2-Dichlorobenzene	0.04	ug/L		U	0		0.04		
1,2-Dichloroethane	0.05	ug/L		U	0		0.05		
1,2-Dichloropropane	0.07	ug/L		U	0		0.07		
1,3,5-Trimethylbenzene	0.05	ug/L		U	0		0.05		
1,3-Dichlorobenzene	0.04	ug/L		U	0		0.04		
1,3-Dichloropropane	0.04	ug/L		U	0		0.04		
1,4-Dichlorobenzene	0.04	ug/L		U	0		0.04		
1,4-Dioxane	7	ug/L		U	0		7		
2,2-Dichloropropane	0.05	ug/L		U	0		0.05		
2-Butanone	0.5	ug/L		U	0		0.5		
2-Chlorotoluene	0.03	ug/L		U	0		0.03		
2-Hexanone	0.24	ug/L		U	0		0.24		
4-Chlorotoluene	0.04	ug/L		U	0		0.04		
4-Methyl-2-pentanone	0.24	ug/L		U	0		0.24		
Acetone	0.552	ug/L			0		0.30		
Benzene	0.018	ug/L		U	0		0.018		
Bromobenzene	0.04	ug/L		U	0		0.04		
Bromochloromethane	0.030	ug/L		U	0		0.030		
Bromodichloromethane	0.016	ug/L		U	0		0.016		
Bromofluorobenzene	99.0	% Recovery			100	99.0	68 --- 120		
Bromoform	0.04	ug/L		U	0		0.04		
Bromomethane	0.08	ug/L		U	0		0.08		
Carbon disulfide	0.07	ug/L		U	0		0.07		
Carbon tetrachloride	0.05	ug/L		U	0		0.05		
Chlorobenzene	0.04	ug/L		U	0		0.04		
Chloroethane	0.07	ug/L		U	0		0.07		
Chloroform	0.03	ug/L		U	0		0.03		
Chloromethane	0.04	ug/L		U	0		0.04		

Method Blank Water

Analytical Run #:	161222	Analysis Date:	06/02/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	288923	Analysis Time:	22:25	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	0.07	ug/L		U	0		0.07		
cis-1,3-Dichloropropene	0.011	ug/L		U	0		0.011		
d8-Toluene	96.0	% Recovery			100	96.0	71 --- 117		
Dibromochloromethane	0.03	ug/L		U	0		0.03		
Dibromofluoromethane	101	% Recovery			100	101	67 --- 122		
Dibromomethane	0.05	ug/L		U	0		0.05		
Dichlorodifluoromethane	0.06	ug/L		U	0		0.06		
Diisopropyl ether	0.04	ug/L		U	0		0.04		
Ethylbenzene	0.04	ug/L		U	0		0.04		
Hexachlorobutadiene	0.05	ug/L		U	0		0.05		
Isopropylbenzene	0.04	ug/L		U	0		0.04		
m & p-Xylene	0.07	ug/L		U	0		0.07		
Methyl tert-butyl ether	0.04	ug/L		U	0		0.04		
Methylene chloride	0.05	ug/L		U	0		0.05		
n-Butylbenzene	0.03	ug/L		U	0		0.03		
n-Propylbenzene	0.04	ug/L		U	0		0.04		
Naphthalene	0.03	ug/L		U	0		0.03		
o-Xylene	0.04	ug/L		U	0		0.04		
p-Isopropyltoluene	0.04	ug/L		U	0		0.04		
sec-Butylbenzene	0.05	ug/L		U	0		0.05		
Styrene	0.03	ug/L		U	0		0.03		
tert-Butylbenzene	0.04	ug/L		U	0		0.04		
Tetrachloroethene	0.05	ug/L		U	0		0.05		
Tetrahydrofuran	0.4	ug/L		U	0		0.4		
Toluene	0.04	ug/L		U	0		0.04		
trans-1,2-Dichloroethene	0.04	ug/L		U	0		0.04		
trans-1,3-Dichloropropene	0.019	ug/L		U	0		0.019		
Trichloroethene	0.05	ug/L		U	0		0.05		
Trichlorofluoromethane	0.09	ug/L		U	0		0.09		
Vinyl acetate	0.22	ug/L		U	0		0.22		
Vinyl chloride	0.019	ug/L		U	0		0.019		

Lab Control Spike Duplicate Water

Analytical Run #:	161223	Analysis Date:	06/02/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	288909	Analysis Time:	16:05	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	288906	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.19	ug/L	4.36		4.00	105	78 --- 121	4	20
1,1,1-Trichloroethane	4.03	ug/L	4.26		4.00	101	82 --- 122	6	20
1,1,2,2-Tetrachloroethane	4.02	ug/L	4.31		4.00	100	68 --- 128	7	20
1,1,2-Trichloroethane	3.95	ug/L	4.18		4.00	99	84 --- 114	6	20
1,1-Dichloroethane	3.91	ug/L	4.13		4.00	98	76 --- 122	5	20
1,1-Dichloroethene	4.02	ug/L	4.20		4.00	100	83 --- 123	4	20
1,1-Dichloropropene	4.24	ug/L	4.38		4.00	106	85 --- 120	3	20
1,2 Dichloroethane-d4	101	% Recovery			100	101	87 --- 107		
1,2,3-Trichlorobenzene	4.44	ug/L	4.27		4.00	111	78 --- 121	4	20
1,2,3-Trichloropropane	3.41	ug/L	4.32		4.00	85	62 --- 129	24	20
1,2,4-Trichlorobenzene	4.54	ug/L	4.25		4.00	114	80 --- 120	7	20
1,2,4-Trimethylbenzene	4.30	ug/L	4.31		4.00	108	76 --- 125	0	20
1,2-Dibromo-3-chloropropane	3.79	ug/L	4.10		4.00	95	69 --- 125	8	20
1,2-Dibromoethane	4.15	ug/L	4.24		4.00	104	80 --- 118	2	20
1,2-Dichlorobenzene	4.20	ug/L	4.28		4.00	105	80 --- 117	2	20
1,2-Dichloroethane	3.82	ug/L	3.99		4.00	96	78 --- 118	4	20
1,2-Dichloropropane	3.93	ug/L	4.17		4.00	98	78 --- 121	6	20
1,3,5-Trimethylbenzene	4.27	ug/L	4.31		4.00	107	76 --- 126	1	20
1,3-Dichlorobenzene	4.23	ug/L	4.28		4.00	106	78 --- 119	1	20
1,3-Dichloropropane	3.94	ug/L	4.07		4.00	98	82 --- 117	3	20
1,4-Dichlorobenzene	4.22	ug/L	4.27		4.00	106	77 --- 118	1	20
1,4-Dioxane	184	ug/L	181		200	92	11 --- 220	2	20
2,2-Dichloropropane	3.73	ug/L	3.73		4.00	93	71 --- 133	0	20
2-Butanone	36.3	ug/L	35.9		40.0	91	80 --- 120	1	20
2-Chlorotoluene	4.16	ug/L	4.17		4.00	104	73 --- 124	0	20
2-Hexanone	42.5	ug/L	41.9		40.0	106	73 --- 127	1	20
4-Chlorotoluene	4.24	ug/L	4.32		4.00	106	74 --- 125	2	20
4-Methyl-2-pentanone	40.4	ug/L	40.7		40.0	101	77 --- 125	1	20
Acetone	35.6	ug/L	32.7		40.0	89	72 --- 117	8	20
Benzene	3.97	ug/L	4.15		4.00	99	82 --- 118	4	20
Bromobenzene	4.22	ug/L	4.21		4.00	106	77 --- 118	0	20
Bromochloromethane	4.02	ug/L	4.22		4.00	100	81 --- 116	5	20
Bromodichloromethane	3.91	ug/L	4.30		4.00	98	80 --- 122	10	20
Bromofluorobenzene	99.0	% Recovery			100	99.0	90 --- 108		
Bromoform	3.54	ug/L	3.98		4.00	88	72 --- 124	12	20
Bromomethane	1.61	ug/L	4.52		4.00	40	25 --- 156	95	20
Carbon disulfide	8.39	ug/L	8.98		8.00	105	81 --- 124	7	20
Carbon tetrachloride	4.11	ug/L	4.41		4.00	103	87 --- 129	7	20
Chlorobenzene	4.08	ug/L	4.18		4.00	102	78 --- 118	2	20
Chloroethane	4.06	ug/L	4.29		4.00	102	73 --- 126	6	20
Chloroform	3.73	ug/L	3.95		4.00	93	76 --- 119	6	20
Chloromethane	3.52	ug/L	4.07		4.00	88	70 --- 121	14	20

Lab Control Spike Duplicate Water

Analytical Run #:	161223	Analysis Date:	06/02/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	288909	Analysis Time:	16:05	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	288906	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	3.95	ug/L	4.16		4.00	99	82 --- 118	5	20
cis-1,3-Dichloropropene	3.92	ug/L	4.25		4.00	98	81 --- 123	8	20
d8-Toluene	99.0	% Recovery			100	99.0	93 --- 108		
Dibromochloromethane	3.78	ug/L	4.08		4.00	94	76 --- 124	8	20
Dibromofluoromethane	101	% Recovery			100	101	93 --- 106		
Dibromomethane	3.83	ug/L	4.14		4.00	96	83 --- 115	8	20
Dichlorodifluoromethane	4.01	ug/L	4.07		4.00	100	78 --- 126	1	20
Diisopropyl ether	3.84	ug/L	4.01		4.00	96	75 --- 125	4	20
Ethylbenzene	4.14	ug/L	4.31		4.00	104	78 --- 125	4	20
Hexachlorobutadiene	4.23	ug/L	3.86		4.00	106	79 --- 123	9	20
Isopropylbenzene	4.21	ug/L	4.34		4.00	105	81 --- 124	3	20
m & p-Xylene	8.35	ug/L	8.68		8.00	104	80 --- 123	4	20
Methyl tert-butyl ether	3.79	ug/L	3.76		4.00	95	82 --- 116	1	20
Methylene chloride	3.89	ug/L	3.90		4.00	97	73 --- 128	0	20
n-Butylbenzene	4.65	ug/L	4.30		4.00	116	76 --- 127	8	20
n-Propylbenzene	4.40	ug/L	4.42		4.00	110	75 --- 129	0	20
Naphthalene	4.32	ug/L	4.14		4.00	108	64 --- 129	4	20
o-Xylene	4.12	ug/L	4.18		4.00	103	81 --- 121	1	20
p-Isopropyltoluene	4.44	ug/L	4.34		4.00	111	79 --- 126	2	20
sec-Butylbenzene	4.47	ug/L	4.38		4.00	112	76 --- 128	2	20
Styrene	4.23	ug/L	4.33		4.00	106	81 --- 122	2	20
tert-Butylbenzene	4.26	ug/L	4.32		4.00	106	76 --- 125	1	20
Tetrachloroethene	4.08	ug/L	4.16		4.00	102	82 --- 123	2	20
Tetrahydrofuran	37.7	ug/L	38.8		40.0	94	69 --- 122	3	20
Toluene	3.95	ug/L	4.23		4.00	99	82 --- 119	7	20
trans-1,2-Dichloroethene	4.05	ug/L	4.21		4.00	101	80 --- 122	4	20
trans-1,3-Dichloropropene	3.86	ug/L	4.26		4.00	96	83 --- 119	10	20
Trichloroethene	3.86	ug/L	3.99		4.00	96	82 --- 120	3	20
Trichlorofluoromethane	4.19	ug/L	4.39		4.00	105	78 --- 130	5	20
Vinyl acetate	32.3	ug/L	46.0		40.0	81	63 --- 136	35	20
Vinyl chloride	3.93	ug/L	4.25		4.00	98	73 --- 127	8	20

Lab Control Spike Water

Analytical Run #: 161223	Analysis Date: 06/02/2019	Prep Batch #:	Matrix: LIQUID
CTLab #: 288906	Analysis Time: 09:00	Prep Date/Time:	Method: SW8260C
Parent Sample #:	Analyst: RLD	Prep Analyst:	

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.36	ug/L			4.00	109	78 --- 121		20
1,1,1-Trichloroethane	4.26	ug/L			4.00	106	82 --- 122		20
1,1,2,2-Tetrachloroethane	4.31	ug/L			4.00	108	68 --- 128		20
1,1,2-Trichloroethane	4.18	ug/L			4.00	104	84 --- 114		20
1,1-Dichloroethane	4.13	ug/L			4.00	103	76 --- 122		20
1,1-Dichloroethene	4.20	ug/L			4.00	105	83 --- 123		20
1,1-Dichloropropene	4.38	ug/L			4.00	110	85 --- 120		20
1,2 Dichloroethane-d4	100	% Recovery			100	100	87 --- 107		
1,2,3-Trichlorobenzene	4.27	ug/L			4.00	107	78 --- 121		20
1,2,3-Trichloropropane	4.32	ug/L			4.00	108	62 --- 129		20
1,2,4-Trichlorobenzene	4.25	ug/L			4.00	106	80 --- 120		20
1,2,4-Trimethylbenzene	4.31	ug/L			4.00	108	76 --- 125		20
1,2-Dibromo-3-chloropropane	4.10	ug/L			4.00	102	69 --- 125		20
1,2-Dibromoethane	4.24	ug/L			4.00	106	80 --- 118		20
1,2-Dichlorobenzene	4.28	ug/L			4.00	107	80 --- 117		20
1,2-Dichloroethane	3.99	ug/L			4.00	100	78 --- 118		20
1,2-Dichloropropane	4.17	ug/L			4.00	104	78 --- 121		20
1,3,5-Trimethylbenzene	4.31	ug/L			4.00	108	76 --- 126		20
1,3-Dichlorobenzene	4.28	ug/L			4.00	107	78 --- 119		20
1,3-Dichloropropane	4.07	ug/L			4.00	102	82 --- 117		20
1,4-Dichlorobenzene	4.27	ug/L			4.00	107	77 --- 118		20
1,4-Dioxane	181	ug/L			200	90	11 --- 220		20
2,2-Dichloropropane	3.73	ug/L			4.00	93	71 --- 133		20
2-Butanone	35.9	ug/L			40.0	90	80 --- 120		20
2-Chlorotoluene	4.17	ug/L			4.00	104	73 --- 124		20
2-Hexanone	41.9	ug/L			40.0	105	73 --- 127		20
4-Chlorotoluene	4.32	ug/L			4.00	108	74 --- 125		20
4-Methyl-2-pentanone	40.7	ug/L			40.0	102	77 --- 125		20
Acetone	32.7	ug/L			40.0	82	72 --- 117		20
Benzene	4.15	ug/L			4.00	104	82 --- 118		20
Bromobenzene	4.21	ug/L			4.00	105	77 --- 118		20
Bromochloromethane	4.22	ug/L			4.00	106	81 --- 116		20
Bromodichloromethane	4.30	ug/L			4.00	108	80 --- 122		20
Bromofluorobenzene	98.0	% Recovery			100	98.0	90 --- 108		
Bromoform	3.98	ug/L			4.00	100	72 --- 124		20
Bromomethane	4.52	ug/L			4.00	113	25 --- 156		20
Carbon disulfide	8.98	ug/L			8.00	112	81 --- 124		20
Carbon tetrachloride	4.41	ug/L			4.00	110	87 --- 129		20
Chlorobenzene	4.18	ug/L			4.00	104	78 --- 118		20
Chloroethane	4.29	ug/L			4.00	107	73 --- 126		20
Chloroform	3.95	ug/L			4.00	99	76 --- 119		20
Chloromethane	4.07	ug/L			4.00	102	70 --- 121		20

Lab Control Spike Water

Analytical Run #:	161223	Analysis Date:	06/02/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	288906	Analysis Time:	09:00	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	4.16	ug/L			4.00	104	82 --- 118		20
cis-1,3-Dichloropropene	4.25	ug/L			4.00	106	81 --- 123		20
d8-Toluene	101	% Recovery			100	101	93 --- 108		
Dibromochloromethane	4.08	ug/L			4.00	102	76 --- 124		20
Dibromofluoromethane	103	% Recovery			100	103	93 --- 106		
Dibromomethane	4.14	ug/L			4.00	104	83 --- 115		20
Dichlorodifluoromethane	4.07	ug/L			4.00	102	78 --- 126		20
Diisopropyl ether	4.01	ug/L			4.00	100	75 --- 125		20
Ethylbenzene	4.31	ug/L			4.00	108	78 --- 125		20
Hexachlorobutadiene	3.86	ug/L			4.00	96	79 --- 123		20
Isopropylbenzene	4.34	ug/L			4.00	108	81 --- 124		20
m & p-Xylene	8.68	ug/L			8.00	108	80 --- 123		20
Methyl tert-butyl ether	3.76	ug/L			4.00	94	82 --- 116		20
Methylene chloride	3.90	ug/L			4.00	98	73 --- 128		20
n-Butylbenzene	4.30	ug/L			4.00	108	76 --- 127		20
n-Propylbenzene	4.42	ug/L			4.00	110	75 --- 129		20
Naphthalene	4.14	ug/L			4.00	104	64 --- 129		20
o-Xylene	4.18	ug/L			4.00	104	81 --- 121		20
p-Isopropyltoluene	4.34	ug/L			4.00	108	79 --- 126		20
sec-Butylbenzene	4.38	ug/L			4.00	110	76 --- 128		20
Styrene	4.33	ug/L			4.00	108	81 --- 122		20
tert-Butylbenzene	4.32	ug/L			4.00	108	76 --- 125		20
Tetrachloroethene	4.16	ug/L			4.00	104	82 --- 123		20
Tetrahydrofuran	38.8	ug/L			40.0	97	69 --- 122		20
Toluene	4.23	ug/L			4.00	106	82 --- 119		20
trans-1,2-Dichloroethene	4.21	ug/L			4.00	105	80 --- 122		20
trans-1,3-Dichloropropene	4.26	ug/L			4.00	106	83 --- 119		20
Trichloroethene	3.99	ug/L			4.00	100	82 --- 120		20
Trichlorofluoromethane	4.39	ug/L			4.00	110	78 --- 130		20
Vinyl acetate	46.0	ug/L			40.0	115	63 --- 136		20
Vinyl chloride	4.25	ug/L			4.00	106	73 --- 127		20

Method Blank Water

Analytical Run #:	161223	Analysis Date:	06/02/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	291418	Analysis Time:	12:18	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.04	ug/L		U	0		0.04		
1,1,1-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1,2,2-Tetrachloroethane	0.017	ug/L		U	0		0.017		
1,1,2-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1-Dichloroethane	0.06	ug/L		U	0		0.06		
1,1-Dichloroethene	0.06	ug/L		U	0		0.06		
1,1-Dichloropropene	0.06	ug/L		U	0		0.06		
1,2 Dichloroethane-d4	102	% Recovery			100	102	68 --- 120		
1,2,3-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,3-Trichloropropane	0.04	ug/L		U	0		0.04		
1,2,4-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,4-Trimethylbenzene	0.04	ug/L		U	0		0.04		
1,2-Dibromo-3-chloropropane	0.09	ug/L		U	0		0.09		
1,2-Dibromoethane	0.07	ug/L		U	0		0.07		
1,2-Dichlorobenzene	0.04	ug/L		U	0		0.04		
1,2-Dichloroethane	0.05	ug/L		U	0		0.05		
1,2-Dichloropropane	0.07	ug/L		U	0		0.07		
1,3,5-Trimethylbenzene	0.05	ug/L		U	0		0.05		
1,3-Dichlorobenzene	0.04	ug/L		U	0		0.04		
1,3-Dichloropropane	0.04	ug/L		U	0		0.04		
1,4-Dichlorobenzene	0.04	ug/L		U	0		0.04		
1,4-Dioxane	7	ug/L		U	0		7		
2,2-Dichloropropane	0.05	ug/L		U	0		0.05		
2-Butanone	0.5	ug/L		U	0		0.5		
2-Chlorotoluene	0.03	ug/L		U	0		0.03		
2-Hexanone	0.24	ug/L		U	0		0.24		
4-Chlorotoluene	0.04	ug/L		U	0		0.04		
4-Methyl-2-pentanone	0.24	ug/L		U	0		0.24		
Acetone	0.410	ug/L			0		0.30		
Benzene	0.018	ug/L		U	0		0.018		
Bromobenzene	0.04	ug/L		U	0		0.04		
Bromochloromethane	0.030	ug/L		U	0		0.030		
Bromodichloromethane	0.016	ug/L		U	0		0.016		
Bromofluorobenzene	99.0	% Recovery			100	99.0	68 --- 120		
Bromoform	0.04	ug/L		U	0		0.04		
Bromomethane	0.08	ug/L		U	0		0.08		
Carbon disulfide	0.07	ug/L		U	0		0.07		
Carbon tetrachloride	0.05	ug/L		U	0		0.05		
Chlorobenzene	0.04	ug/L		U	0		0.04		
Chloroethane	0.07	ug/L		U	0		0.07		
Chloroform	0.03	ug/L		U	0		0.03		
Chloromethane	0.04	ug/L		U	0		0.04		

Method Blank Water

Analytical Run #:	161223	Analysis Date:	06/02/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	291418	Analysis Time:	12:18	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	0.07	ug/L		U	0		0.07		
cis-1,3-Dichloropropene	0.011	ug/L		U	0		0.011		
d8-Toluene	97.0	% Recovery			100	97.0	71 --- 117		
Dibromochloromethane	0.03	ug/L		U	0		0.03		
Dibromofluoromethane	95.0	% Recovery			100	95.0	67 --- 122		
Dibromomethane	0.05	ug/L		U	0		0.05		
Dichlorodifluoromethane	0.06	ug/L		U	0		0.06		
Diisopropyl ether	0.04	ug/L		U	0		0.04		
Ethylbenzene	0.04	ug/L		U	0		0.04		
Hexachlorobutadiene	0.05	ug/L		U	0		0.05		
Isopropylbenzene	0.04	ug/L		U	0		0.04		
m & p-Xylene	0.07	ug/L		U	0		0.07		
Methyl tert-butyl ether	0.04	ug/L		U	0		0.04		
Methylene chloride	0.05	ug/L		U	0		0.05		
n-Butylbenzene	0.03	ug/L		U	0		0.03		
n-Propylbenzene	0.04	ug/L		U	0		0.04		
Naphthalene	0.03	ug/L		U	0		0.03		
o-Xylene	0.04	ug/L		U	0		0.04		
p-Isopropyltoluene	0.04	ug/L		U	0		0.04		
sec-Butylbenzene	0.05	ug/L		U	0		0.05		
Styrene	0.03	ug/L		U	0		0.03		
tert-Butylbenzene	0.04	ug/L		U	0		0.04		
Tetrachloroethene	0.05	ug/L		U	0		0.05		
Tetrahydrofuran	0.4	ug/L		U	0		0.4		
Toluene	0.04	ug/L		U	0		0.04		
trans-1,2-Dichloroethene	0.04	ug/L		U	0		0.04		
trans-1,3-Dichloropropene	0.019	ug/L		U	0		0.019		
Trichloroethene	0.05	ug/L		U	0		0.05		
Trichlorofluoromethane	0.09	ug/L		U	0		0.09		
Vinyl acetate	0.22	ug/L		U	0		0.22		
Vinyl chloride	0.019	ug/L		U	0		0.019		

Lab Control Spike Duplicate Water

Analytical Run #:	161282	Analysis Date:	06/01/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	288899	Analysis Time:	13:17	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	288889	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.5	ug/L	10.3		10.0	105	86 --- 112	2	20
1,1,1-Trichloroethane	9.97	ug/L	10.0		10.0	100	88 --- 120	0	20
1,1,2,2-Tetrachloroethane	10.4	ug/L	10.4		10.0	104	83 --- 116	0	20
1,1,2-Trichloroethane	9.98	ug/L	9.89		10.0	100	86 --- 115	1	20
1,1-Dichloroethane	9.81	ug/L	9.87		10.0	98	86 --- 117	1	20
1,1-Dichloroethene	9.61	ug/L	10.1		10.0	96	86 --- 119	5	20
1,1-Dichloropropene	9.19	ug/L	10.1		10.0	92	87 --- 117	9	20
1,2 Dichloroethane-d4	105	% Recovery			100	105	90 --- 111		
1,2,3-Trichlorobenzene	9.63	ug/L	9.74		10.0	96	81 --- 114	1	20
1,2,3-Trichloropropane	10.0	ug/L	10.3		10.0	100	77 --- 120	3	20
1,2,4-Trichlorobenzene	9.14	ug/L	9.89		10.0	91	80 --- 116	8	20
1,2,4-Trimethylbenzene	11.2	ug/L	10.9		10.0	112	91 --- 118	3	20
1,2-Dibromo-3-chloropropane	10.1	ug/L	10.6		10.0	101	68 --- 122	5	20
1,2-Dibromoethane	10.6	ug/L	10.4		10.0	106	87 --- 113	2	20
1,2-Dichlorobenzene	10.5	ug/L	10.2		10.0	105	88 --- 113	3	20
1,2-Dichloroethane	9.59	ug/L	9.74		10.0	96	84 --- 120	2	20
1,2-Dichloropropane	9.90	ug/L	9.68		10.0	99	85 --- 116	2	20
1,3,5-Trimethylbenzene	11.3	ug/L	11.0		10.0	113	90 --- 119	3	20
1,3-Dichlorobenzene	10.5	ug/L	10.3		10.0	105	89 --- 113	2	20
1,3-Dichloropropane	10.1	ug/L	10.1		10.0	101	87 --- 115	0	20
1,4-Dichlorobenzene	10.5	ug/L	9.99		10.0	105	87 --- 113	5	20
2,2-Dichloropropane	9.72	ug/L	9.91		10.0	97	75 --- 127	2	20
2-Butanone	101	ug/L	109		100	101	68 --- 133	8	20
2-Chlorotoluene	10.8	ug/L	10.6		10.0	108	88 --- 117	2	20
2-Hexanone	115	ug/L	118		100	115	71 --- 134	3	20
4-Chlorotoluene	11.2	ug/L	10.8		10.0	112	88 --- 119	4	20
4-Methyl-2-pentanone	106	ug/L	111		100	106	78 --- 127	5	20
Acetone	85.3	ug/L	103		100	85	66 --- 137	19	20
Benzene	10.0	ug/L	10.2		10.0	100	90 --- 119	2	20
Bromobenzene	10.3	ug/L	10.1		10.0	103	86 --- 113	2	20
Bromochloromethane	10.8	ug/L	10.8		10.0	108	81 --- 120	0	20
Bromodichloromethane	9.74	ug/L	9.97		10.0	97	87 --- 116	2	20
Bromofluorobenzene	98.0	% Recovery			100	98.0	88 --- 108		
Bromoform	9.88	ug/L	9.92		10.0	99	72 --- 124	0	20
Bromomethane	11.8	ug/L	11.3		10.0	118	40 --- 169	4	20
Carbon disulfide	19.5	ug/L	19.9		20.0	98	89 --- 124	2	20
Carbon tetrachloride	9.31	ug/L	9.99		10.0	93	82 --- 127	7	20
Chlorobenzene	10.7	ug/L	10.4		10.0	107	89 --- 114	3	20
Chloroethane	8.51	ug/L	9.12		10.0	85	78 --- 128	7	20
Chloroform	10.1	ug/L	9.94		10.0	101	88 --- 115	2	20
Chloromethane	8.34	ug/L	9.46		10.0	83	63 --- 135	13	20
cis-1,2-Dichloroethene	9.74	ug/L	10.1		10.0	97	87 --- 115	4	20

Lab Control Spike Duplicate Water

Analytical Run #:	161282	Analysis Date:	06/01/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	288899	Analysis Time:	13:17	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	288889	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	9.16	ug/L	9.57		10.0	92	86 --- 115	4	20
d8-Toluene	98.0	% Recovery			100	98.0	95 --- 105		
Dibromochloromethane	10.2	ug/L	10.4		10.0	102	82 --- 117	2	20
Dibromofluoromethane	98.0	% Recovery			100	98.0	92 --- 107		
Dibromomethane	10.0	ug/L	10.2		10.0	100	84 --- 115	2	20
Dichlorodifluoromethane	10.2	ug/L	10.4		10.0	102	76 --- 129	2	20
Diisopropyl ether	10.3	ug/L	10.3		10.0	103	82 --- 123	0	20
Ethylbenzene	11.0	ug/L	11.0		10.0	110	92 --- 119	0	20
Hexachlorobutadiene	10.1	ug/L	10.0		10.0	101	84 --- 120	1	20
Isopropylbenzene	10.8	ug/L	11.0		10.0	108	91 --- 121	2	20
m & p-Xylene	22.2	ug/L	22.1		20.0	111	91 --- 117	0	20
Methyl tert-butyl ether	10.1	ug/L	10.2		10.0	101	85 --- 115	1	20
Methylene chloride	9.21	ug/L	9.42		10.0	92	71 --- 128	2	20
n-Butylbenzene	10.5	ug/L	10.5		10.0	105	88 --- 122	0	20
n-Propylbenzene	11.3	ug/L	11.2		10.0	113	90 --- 123	1	20
Naphthalene	10.0	ug/L	10.6		10.0	100	64 --- 129	6	20
o-Xylene	10.5	ug/L	10.5		10.0	105	89 --- 115	0	20
p-Isopropyltoluene	9.36	ug/L	9.45		10.0	94	91 --- 119	1	20
sec-Butylbenzene	11.1	ug/L	11.3		10.0	111	92 --- 122	2	20
Styrene	11.0	ug/L	10.9		10.0	110	90 --- 116	1	20
tert-Butylbenzene	10.4	ug/L	10.5		10.0	104	90 --- 118	1	20
Tetrachloroethene	9.84	ug/L	9.94		10.0	98	86 --- 120	1	20
Tetrahydrofuran	102	ug/L	112		100	102	72 --- 135	9	20
Toluene	9.81	ug/L	10.1		10.0	98	89 --- 117	3	20
trans-1,2-Dichloroethene	10.2	ug/L	10.4		10.0	102	86 --- 116	2	20
trans-1,3-Dichloropropene	9.44	ug/L	9.67		10.0	94	84 --- 115	2	20
Trichloroethene	9.77	ug/L	9.57		10.0	98	86 --- 117	2	20
Trichlorofluoromethane	11.7	ug/L	11.7		10.0	117	83 --- 133	0	20
Vinyl acetate	111	ug/L	111		100	111	60 --- 147	0	20
Vinyl chloride	9.46	ug/L	10.1		10.0	95	84 --- 124	7	20

Lab Control Spike Water

Analytical Run #: 161282	Analysis Date: 06/01/2019	Prep Batch #:	Matrix: LIQUID
CTLab #: 288889	Analysis Time: 10:18	Prep Date/Time:	Method: SW8260C
Parent Sample #:	Analyst: RLD	Prep Analyst:	

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.3	ug/L			10.0	103	86 --- 112		20
1,1,1-Trichloroethane	10.0	ug/L			10.0	100	88 --- 120		20
1,1,2,2-Tetrachloroethane	10.4	ug/L			10.0	104	83 --- 116		20
1,1,2-Trichloroethane	9.89	ug/L			10.0	99	86 --- 115		20
1,1-Dichloroethane	9.87	ug/L			10.0	99	86 --- 117		20
1,1-Dichloroethene	10.1	ug/L			10.0	101	86 --- 119		20
1,1-Dichloropropene	10.1	ug/L			10.0	101	87 --- 117		20
1,2 Dichloroethane-d4	102	% Recovery			100	102	90 --- 111		
1,2,3-Trichlorobenzene	9.74	ug/L			10.0	97	81 --- 114		20
1,2,3-Trichloropropane	10.3	ug/L			10.0	103	77 --- 120		20
1,2,4-Trichlorobenzene	9.89	ug/L			10.0	99	80 --- 116		20
1,2,4-Trimethylbenzene	10.9	ug/L			10.0	109	91 --- 118		20
1,2-Dibromo-3-chloropropane	10.6	ug/L			10.0	106	68 --- 122		20
1,2-Dibromoethane	10.4	ug/L			10.0	104	87 --- 113		20
1,2-Dichlorobenzene	10.2	ug/L			10.0	102	88 --- 113		20
1,2-Dichloroethane	9.74	ug/L			10.0	97	84 --- 120		20
1,2-Dichloropropane	9.68	ug/L			10.0	97	85 --- 116		20
1,3,5-Trimethylbenzene	11.0	ug/L			10.0	110	90 --- 119		20
1,3-Dichlorobenzene	10.3	ug/L			10.0	103	89 --- 113		20
1,3-Dichloropropane	10.1	ug/L			10.0	101	87 --- 115		20
1,4-Dichlorobenzene	9.99	ug/L			10.0	100	87 --- 113		20
2,2-Dichloropropane	9.91	ug/L			10.0	99	75 --- 127		20
2-Butanone	109	ug/L			100	109	68 --- 133		20
2-Chlorotoluene	10.6	ug/L			10.0	106	88 --- 117		20
2-Hexanone	118	ug/L			100	118	71 --- 134		20
4-Chlorotoluene	10.8	ug/L			10.0	108	88 --- 119		20
4-Methyl-2-pentanone	111	ug/L			100	111	78 --- 127		20
Acetone	103	ug/L			100	103	66 --- 137		20
Benzene	10.2	ug/L			10.0	102	90 --- 119		20
Bromobenzene	10.1	ug/L			10.0	101	86 --- 113		20
Bromochloromethane	10.8	ug/L			10.0	108	81 --- 120		20
Bromodichloromethane	9.97	ug/L			10.0	100	87 --- 116		20
Bromofluorobenzene	99.0	% Recovery			100	99.0	88 --- 108		
Bromoform	9.92	ug/L			10.0	99	72 --- 124		20
Bromomethane	11.3	ug/L			10.0	113	40 --- 169		20
Carbon disulfide	19.9	ug/L			20.0	100	89 --- 124		20
Carbon tetrachloride	9.99	ug/L			10.0	100	82 --- 127		20
Chlorobenzene	10.4	ug/L			10.0	104	89 --- 114		20
Chloroethane	9.12	ug/L			10.0	91	78 --- 128		20
Chloroform	9.94	ug/L			10.0	99	88 --- 115		20
Chloromethane	9.46	ug/L			10.0	95	63 --- 135		20
cis-1,2-Dichloroethene	10.1	ug/L			10.0	101	87 --- 115		20

Lab Control Spike Water

Analytical Run #:	161282	Analysis Date:	06/01/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	288889	Analysis Time:	10:18	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	9.57	ug/L			10.0	96	86 --- 115		20
d8-Toluene	98.0	% Recovery			100	98.0	95 --- 105		
Dibromochloromethane	10.4	ug/L			10.0	104	82 --- 117		20
Dibromofluoromethane	97.0	% Recovery			100	97.0	92 --- 107		
Dibromomethane	10.2	ug/L			10.0	102	84 --- 115		20
Dichlorodifluoromethane	10.4	ug/L			10.0	104	76 --- 129		20
Diisopropyl ether	10.3	ug/L			10.0	103	82 --- 123		20
Ethylbenzene	11.0	ug/L			10.0	110	92 --- 119		20
Hexachlorobutadiene	10.0	ug/L			10.0	100	84 --- 120		20
Isopropylbenzene	11.0	ug/L			10.0	110	91 --- 121		20
m & p-Xylene	22.1	ug/L			20.0	110	91 --- 117		20
Methyl tert-butyl ether	10.2	ug/L			10.0	102	85 --- 115		20
Methylene chloride	9.42	ug/L			10.0	94	71 --- 128		20
n-Butylbenzene	10.5	ug/L			10.0	105	88 --- 122		20
n-Propylbenzene	11.2	ug/L			10.0	112	90 --- 123		20
Naphthalene	10.6	ug/L			10.0	106	64 --- 129		20
o-Xylene	10.5	ug/L			10.0	105	89 --- 115		20
p-Isopropyltoluene	9.45	ug/L			10.0	94	91 --- 119		20
sec-Butylbenzene	11.3	ug/L			10.0	113	92 --- 122		20
Styrene	10.9	ug/L			10.0	109	90 --- 116		20
tert-Butylbenzene	10.5	ug/L			10.0	105	90 --- 118		20
Tetrachloroethene	9.94	ug/L			10.0	99	86 --- 120		20
Tetrahydrofuran	112	ug/L			100	112	72 --- 135		20
Toluene	10.1	ug/L			10.0	101	89 --- 117		20
trans-1,2-Dichloroethene	10.4	ug/L			10.0	104	86 --- 116		20
trans-1,3-Dichloropropene	9.67	ug/L			10.0	97	84 --- 115		20
Trichloroethene	9.57	ug/L			10.0	96	86 --- 117		20
Trichlorofluoromethane	11.7	ug/L			10.0	117	83 --- 133		20
Vinyl acetate	111	ug/L			100	111	60 --- 147		20
Vinyl chloride	10.1	ug/L			10.0	101	84 --- 124		20

Method Blank Water

Analytical Run #: 161282	Analysis Date: 06/01/2019	Prep Batch #:	Matrix: LIQUID
CTLab #: 288895	Analysis Time: 12:17	Prep Date/Time:	Method: SW8260C
Parent Sample #:	Analyst: RLD	Prep Analyst:	

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.6	ug/L		U	0			0.6	
1,1,1-Trichloroethane	0.5	ug/L		U	0			0.5	
1,1,2,2-Tetrachloroethane	0.7	ug/L		U	0			0.7	
1,1,2-Trichloroethane	0.4	ug/L		U	0			0.4	
1,1-Dichloroethane	0.3	ug/L		U	0			0.3	
1,1-Dichloroethene	0.4	ug/L		U	0			0.4	
1,1-Dichloropropene	0.7	ug/L		U	0			0.7	
1,2 Dichloroethane-d4	105	% Recovery			100	105	83 ---	116	
1,2,3-Trichlorobenzene	0.8	ug/L		U	0			0.8	
1,2,3-Trichloropropane	0.6	ug/L		U	0			0.6	
1,2,4-Trichlorobenzene	0.5	ug/L		U	0			0.5	
1,2,4-Trimethylbenzene	0.4	ug/L		U	0			0.4	
1,2-Dibromo-3-chloropropane	0.7	ug/L		U	0			0.7	
1,2-Dibromoethane	0.6	ug/L		U	0			0.6	
1,2-Dichlorobenzene	0.6	ug/L		U	0			0.6	
1,2-Dichloroethane	0.26	ug/L		U	0			0.26	
1,2-Dichloropropane	0.4	ug/L		U	0			0.4	
1,3,5-Trimethylbenzene	0.4	ug/L		U	0			0.4	
1,3-Dichlorobenzene	0.5	ug/L		U	0			0.5	
1,3-Dichloropropane	0.5	ug/L		U	0			0.5	
1,4-Dichlorobenzene	0.6	ug/L		U	0			0.6	
2,2-Dichloropropane	0.5	ug/L		U	0			0.5	
2-Butanone	4	ug/L		U	0			4	
2-Chlorotoluene	0.4	ug/L		U	0			0.4	
2-Hexanone	7	ug/L		U	0			7	
4-Chlorotoluene	0.4	ug/L		U	0			0.4	
4-Methyl-2-pentanone	6	ug/L		U	0			6	
Acetone	9	ug/L		U	0			9	
Benzene	0.24	ug/L		U	0			0.24	
Bromobenzene	0.6	ug/L		U	0			0.6	
Bromochloromethane	0.8	ug/L		U	0			0.8	
Bromodichloromethane	0.4	ug/L		U	0			0.4	
Bromofluorobenzene	103	% Recovery			100	103	80 ---	129	
Bromoform	0.7	ug/L		U	0			0.7	
Bromomethane	0.7	ug/L		U	0			0.7	
Carbon disulfide	0.5	ug/L		U	0			0.5	
Carbon tetrachloride	0.5	ug/L		U	0			0.5	
Chlorobenzene	0.5	ug/L		U	0			0.5	
Chloroethane	0.5	ug/L		U	0			0.5	
Chloroform	0.3	ug/L		U	0			0.3	
Chloromethane	0.7	ug/L		U	0			0.7	
cis-1,2-Dichloroethene	0.3	ug/L		U	0			0.3	

Method Blank Water

Analytical Run #:	161282	Analysis Date:	06/01/2019	Prep Batch #:	Matrix:	LIQUID
CTLab #:	288895	Analysis Time:	12:17	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.4	ug/L		U	0			0.4	
d8-Toluene	97.0	% Recovery			100	97.0	85 --- 117		
Dibromochloromethane	0.4	ug/L		U	0			0.4	
Dibromofluoromethane	103	% Recovery			100	103	85 --- 115		
Dibromomethane	0.8	ug/L		U	0			0.8	
Dichlorodifluoromethane	0.4	ug/L		U	0			0.4	
Diisopropyl ether	0.29	ug/L		U	0			0.29	
Ethylbenzene	0.3	ug/L		U	0			0.3	
Hexachlorobutadiene	0.9	ug/L		U	0			0.9	
Isopropylbenzene	0.4	ug/L		U	0			0.4	
m & p-Xylene	0.5	ug/L		U	0			0.5	
Methyl tert-butyl ether	0.3	ug/L		U	0			0.3	
Methylene chloride	0.5	ug/L		U	0			0.5	
n-Butylbenzene	0.4	ug/L		U	0			0.4	
n-Propylbenzene	0.54	ug/L		U	0			0.54	
Naphthalene	0.7	ug/L		U	0			0.7	
o-Xylene	0.4	ug/L		U	0			0.4	
p-Isopropyltoluene	0.5	ug/L		U	0			0.5	
sec-Butylbenzene	0.4	ug/L		U	0			0.4	
Styrene	0.5	ug/L		U	0			0.5	
tert-Butylbenzene	0.4	ug/L		U	0			0.4	
Tetrachloroethene	0.5	ug/L		U	0			0.5	
Tetrahydrofuran	3.0	ug/L		U	0			3.0	
Toluene	0.3	ug/L		U	0			0.3	
trans-1,2-Dichloroethene	0.6	ug/L		U	0			0.6	
trans-1,3-Dichloropropene	0.4	ug/L		U	0			0.4	
Trichloroethene	0.3	ug/L		U	0			0.3	
Trichlorofluoromethane	0.3	ug/L		U	0			0.3	
Vinyl acetate	3	ug/L		U	0			3	
Vinyl chloride	0.19	ug/L		U	0			0.19	

Sample Condition Report

Folder #: 145294	Print Date / Time: 05/28/2019 12:06
Client: TRC ENVIRONMENTAL	Received Date / Time / By: 05/24/2019 07:50 JRB
Project Name: RIPON FF/NN LANDFILL	Log-In Date / Time / By: 05/24/2019 08:15 JRB
Project Phase: RIPON, WI	Project #: 327275.0001.0002 PM: BMS
Coolers: 6307,XXXX	Temperature: <3.4 C On Ice: Y
Custody Seals Present : Y	COC Present?: Y Complete?: Y
Seal Intact? Y	Numbers: SIGNED AND DATED
Ship Method: LAB PICK UP	Tracking Number: N/A
Adequate Packaging: Y	Temp Blank Enclosed? Y

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

ONE CUSTODY SEAL WAS PRESENT AND INTACT ON EACH COOLER UPON RECEIPT - BOTH WERE DATED 5/23/19 AND SIGNED.

A NUMBER OF SAMPLES WERE RECEIVED PAST THE 48-HOUR HOLD TIME FOR NITRATE + NITRITE. PER THE CLIENT'S INSTRUCTIONS RECEIVED VIA TELEPHONE ON 05/24/2019, THE NITRATE + NITRITE ANALYSIS WAS CANCELLED ON ANY SAMPLES THAT WERE RECEIVED OUT-OF-HOLD.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286279 P-107D	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286279 P-107D	HNO3	1	Y /	ICP
	Total # of Containers of Type		(HNO3) = 1	
286279 P-107D	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		(VOA HCL) = 3	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286282 P-107	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286282 P-107	HNO3	1	Y /	ICP
	Total # of Containers of Type		(HNO3) = 1	
286282 P-107	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		(VOA HCL) = 3	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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286283	MW-107	UNPRES PL	1	/	Anions
		Total # of Containers of Type	(UNPRES PL) = 1		
286283	MW-107	HNO3	1	Y /	ICP
		Total # of Containers of Type	(HNO3) = 1		
286283	MW-107	VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(VOA HCL) = 3		
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?		Tests
286284	P113A	UNPRES PL	1	/	Anions
		Total # of Containers of Type	(UNPRES PL) = 1		
286284	P113A	HNO3	1	Y /	ICP
		Total # of Containers of Type	(HNO3) = 1		
286284	P113A	VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(VOA HCL) = 3		
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?		Tests
286285	P-113B	UNPRES PL	1	/	Anions
		Total # of Containers of Type	(UNPRES PL) = 1		
286285	P-113B	HNO3	1	Y /	ICP
		Total # of Containers of Type	(HNO3) = 1		
286285	P-113B	VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(VOA HCL) = 3		
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?		Tests
286286	MW-3A	UNPRES PL	1	/	Anions
		Total # of Containers of Type	(UNPRES PL) = 1		
286286	MW-3A	HNO3	1	Y /	ICP
		Total # of Containers of Type	(HNO3) = 1		
286286	MW-3A	VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(VOA HCL) = 3		
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?		Tests

286287	MW-3B	UNPRES PL	1	/	Anions
		Total # of Containers of Type	(UNPRES PL) = 1		
286287	MW-3B	HNO3	1	Y /	ICP
		Total # of Containers of Type	(HNO3) = 1		
286287	MW-3B	VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(VOA HCL) = 3		
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?		Tests
286288	P-117	UNPRES PL	1	/	Anions
		Total # of Containers of Type	(UNPRES PL) = 1		
286288	P-117	HNO3	1	Y /	ICP
		Total # of Containers of Type	(HNO3) = 1		
286288	P-117	VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(VOA HCL) = 3		
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?		Tests
286289	P-118	UNPRES PL	1	/	Anions
		Total # of Containers of Type	(UNPRES PL) = 1		
286289	P-118	HNO3	1	Y /	ICP
		Total # of Containers of Type	(HNO3) = 1		
286289	P-118	VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(VOA HCL) = 3		
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?		Tests
286290	LC-1	UNPRES PL	1	/	Anions
		Total # of Containers of Type	(UNPRES PL) = 1		
286290	LC-1	HNO3	1	Y /	ICP
		Total # of Containers of Type	(HNO3) = 1		
286290	LC-1	VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Containers of Type	(VOA HCL) = 3		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286317 LC-3	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286317 LC-3	HNO3	1	Y /	ICP
	Total # of Containers of Type		(HNO3) = 1	
286317 LC-3	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		(VOA HCL) = 3	
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286318 LC-2	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286318 LC-2	HNO3	1	Y /	ICP
	Total # of Containers of Type		(HNO3) = 1	
286318 LC-2	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		(VOA HCL) = 3	
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286319 P-111D	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286319 P-111D	HNO3	1	Y /	ICP
	Total # of Containers of Type		(HNO3) = 1	
286319 P-111D	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		(VOA HCL) = 3	
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286323 RHODE	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286323 RHODE	HNO3	1	Y /	ICP
	Total # of Containers of Type		(HNO3) = 1	
286323 RHODE	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (VOA HCL) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286325 P-114	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286325 P-114	HNO3	1	Y /	ICP
	Total # of Containers of Type		(HNO3) = 1	
286325 P-114	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		(VOA HCL) = 3	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286326 P-115	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286326 P-115	HNO3	1	/	ICP
	Total # of Containers of Type		(HNO3) = 1	
286326 P-115	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		(VOA HCL) = 3	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286327 P-106	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286327 P-106	HNO3	1	/	ICP
	Total # of Containers of Type		(HNO3) = 1	
286327 P-106	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		(VOA HCL) = 3	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286328 MW-103	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286328 MW-103	HNO3	1	/	ICP
	Total # of Containers of Type		(HNO3) = 1	
286328 MW-103	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

VOA HCL 1 / VOC
Total # of Containers of Type (VOA HCL) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286329 P-103D	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286329 P-103D	HNO3	1	/	ICP
	Total # of Containers of Type		(HNO3) = 1	
286329 P-103D	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		(VOA HCL) = 3	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286330 P-103	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286330 P-103	HNO3	1	/	ICP
	Total # of Containers of Type		(HNO3) = 1	
286330 P-103	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		(VOA HCL) = 3	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286331 MW-112	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286331 MW-112	HNO3	1	/	ICP
	Total # of Containers of Type		(HNO3) = 1	
286331 MW-112	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		(VOA HCL) = 3	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
286332 MW-104	UNPRES PL	1	/	Anions
	Total # of Containers of Type		(UNPRES PL) = 1	
286332 MW-104	HNO3	1	/	ICP
	Total # of Containers of Type		(HNO3) = 1	
286332 MW-104	VOA HCL	1	/	VOC

VOA HCL 1 / VOC
 VOA HCL 1 / VOC
Total # of Containers of Type (VOA HCL) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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286333 DUP-1
 UNPRES PL 1 / Anions
Total # of Containers of Type (UNPRES PL) = 1

286333 DUP-1
 HNO3 1 / ICP
Total # of Containers of Type (HNO3) = 1

286333 DUP-1
 VOA HCL 1 / VOC
 VOA HCL 1 / VOC
 VOA HCL 1 / VOC
Total # of Containers of Type (VOA HCL) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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286334 DUP-2
 UNPRES PL 1 / Anions
Total # of Containers of Type (UNPRES PL) = 1

286334 DUP-2
 HNO3 1 / ICP
Total # of Containers of Type (HNO3) = 1

286334 DUP-2
 VOA HCL 1 / VOC
 VOA HCL 1 / VOC
 VOA HCL 1 / VOC
Total # of Containers of Type (VOA HCL) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

286335 P-116
 UNPRES PL 1 / Anions
Total # of Containers of Type (UNPRES PL) = 1

286335 P-116
 HNO3 1 / ICP
Total # of Containers of Type (HNO3) = 1

286335 P-116
 VOA HCL 1 / VOC
 VOA HCL 1 / VOC
 VOA HCL 1 / VOC
Total # of Containers of Type (VOA HCL) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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286370 TRIP BLANK
 Trip Blank 1 / VOC
 Trip Blank 1 / VOC
Total # of Containers of Type (Trip Blank) = 2

Condition Code Condition Description
 1 Sample Received OK

Company: TRC
 Project Contact: James Wedekind
 Telephone: (608) 826-3666
 Project Name: FF/NN Landfill
 Project #: 327275.0001.0002
 Location: Ripon WI
 Sampled By: J. Roelke

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Report To:
 EMAIL: ppopp@trccompanies.com
 Company: TRC
 Address: 708 Heartland Tr.
 Suite 3000 madison WI 53717
 Invoice To:*
 EMAIL: mstollenwerk@trccompanies.com
 Company: TRC
 Address:

Lab Use Only
 Place Header Sticker Here:

145294

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____
 PO # 138000

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions Send Report to
 - James Wedekind @ jwedekind@trccompanies.com
 - marita Stollenwerk @ mstollenwerk@trccompanies.com

ANALYSES REQUESTED

Filtered? Y/N	Total MA	Nitrate/Nitrite Sulfate	VOC's 8260	VOC's 5242													

Total # Containers
 Designated MS/MSD

Turnaround Time
 Normal RUSH*
 Date Needed: _____
 Rush analysis requires prior
 CT Laboratories' approval
 Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Fill in Spaces with Bottles per Test											CT Lab ID # Lab use only	
Date	Time																	
5/11/19	9:00	GW	Grab	5	P-107D	X	X	X										286279
	10:10				P-107													286282
	10:46				MW-107													286283
	12:13				P-113A													286284
	1:30				P-113B													286285
	14:43				MW-3A													286286
	15:35				MW-3B													286287
	16:42				P-117													286288
	17:29				P-118													286289
	18:00				LC-1													286290
	18:25				LC-3													286317
	18:50				LC-2													286318

Relinquished By: [Signature]
 Received by: [Signature]

Date/Time 12:00
 5/23/19
 Date/Time

Received By: [Signature]
 Received for Laboratory by: [Signature]

Date/Time 5/24/19 7:50
 Date/Time 5/24/19 8:15

Lab Use Only
 Ice Present Yes No
 Temp 3.4 IR Gun 24
 Cooler # 6307 X

Company: TRC
 Project Contact: James Wedekind
 Telephone: (608) 826-3666
 Project Name: FF/NN Landfill
 Project #: 327275.0001.0002
 Location: Ripon WI
 Sampled By: S. Roelke

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Lab Use Only
 Place Header Sticker Here:

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____

PO #
138000

Report To:
 EMAIL:
 Company: SAME
 Address:
 Invoice To:*
 EMAIL: SAME
 Company:
 Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

ANALYSES REQUESTED												Total # Containers	Designated MS/MSD	
Filtered? Y/N	Total Ma	Nitrate/Nitrite	Sulfate	VOCs	8260									

Turnaround Time
 Normal RUSH*
 Date Needed: _____
 Rush analysis requires prior
 CT Laboratories' approval
 Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Fill in Spaces with Bottles per Test												Total # Containers	Designated MS/MSD	CT Lab ID # <i>Lab use only</i>
Date	Time																			
5/22/19	2040	GW	Grab	5	P-116	N	X	X	X							5	286335			
					TRIP BLANK				X							2	286370			

Relinquished By: [Signature]
 Received by: [Signature]

Date/Time
5/23/19 12:00
 Date/Time

Received By: JRB
 Received for Laboratory by: JRB

Date/Time
5/24/19 7:50
 Date/Time
5/24/19 8:15

Lab Use Only
 Ice Present Yes No
 Temperature 23.4 #24
 Cooler # 6307 XXXX

CT Laboratories Terms and Conditions

Where a purchaser (Client) places an order for laboratory, consulting or sampling services from CT Laboratories (CTL), CTL shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes an acceptance by the Client of CTL's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by CTL in advance of the start of the project and in writing.

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

- 1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submitting a purchase order to CTL in writing, by telephone (confirmed in writing) or by negotiated contract. Whichever option the Client selects for placing the Order, the Order shall not be valid unless it contains sufficient specification to enable CTL to carry out the Client's requirements. It is the policy of CT Laboratories that samples not meeting the acceptance criteria, outlined in the NELAC standards and Section 5.8.3.2 of the DOD QSM, will not be accepted by the laboratory or will be qualified on the final report. All samples submitted to the laboratory must: (1) be accompanied by proper, full and complete documentation, including sample identification, location, date and time of collection, the collector's name, type of preservation (if any), type of sample, any special comments concerning the sample and any additional pertinent fields on the chain-of-custody. In the absence of any of the required information, the laboratory will attempt to contact the client to obtain the information; if unable to obtain the necessary information, the final report will be qualified. (2) be labeled appropriately with a unique sample identification written with indelible ink on water resistant labels. If the laboratory cannot determine the identity of a sample, it will be rejected and the client will be contacted for further instructions or resampling. (3) be in an appropriate sample container, if the container is inappropriate, the client will be contacted for further instructions or resampling. (4) adhere to specified holding times. If samples are received with less than 1/2 the holding time remaining for the requested test, CT Laboratories will make its best effort to analyze the samples and notify the client. If holding times are exceeded, the final report will be qualified. (5) contain adequate sample volume to perform the necessary testing. If sufficient volume is not present, the sample will be rejected and the client will be contacted for further instructions or resampling. If samples show signs of damage, contamination or inadequate preservation, the client will be notified. If analysis can be performed, the final report will be qualified. If not, the samples will be rejected and the client notified for further instructions or resampling.
- 1.2 CT Laboratories must be supplied with complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.
- 1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Client. In no event will CTL have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from CTL's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to CTL's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by CTL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. CTL reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

- 3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. CTL will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in writing.
- 3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.
- 3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of these Terms and Conditions. CTL will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

- 4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test methods. CTL has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Client may request that CTL perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, CTL will proceed with analyses under its standard Quality Manuals then in effect, and CTL will not be responsible for any resampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.
- 4.2 CTL shall start preparation and/or analysis within holding times provided that Sample Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Acceptance does not occur within this period, CTL will use its best efforts to meet holding times and will proceed with the work provided that, in CTL's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.
- 4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Client in writing of any decertification or revocation of any license, or notice of either, which affects work in progress.
- 4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way.
- 4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL, will be limited to repeating any services performed, contingent on the Client's providing, at the request of CTL and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating Results consistent with the original Results will be at the Client's expense. If resampling is necessary, CTL's liability for resampling costs will be limited to actual cost or one hundred or one hundred fifty dollars (\$150) per sample, whichever is less.
- 4.6 CTL's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.
- 4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond CTL's reasonable control.

5. RESULTS, WORK PRODUCT

- 5.1 Data or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by CTL for performance of work will be retained by CTL, and Client shall not disclose such information to any third party.
- 5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by CTL shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay CTL for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.
- 5.3 Should the Results delivered by CTL be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold CTL's right to independently defend its data.
- 5.4 CTL reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in CTL's sole judgment, it is reasonably necessary, appropriate or advisable to do so, and with the Client's permission. CTL will in no way be liable for any subcontracted services and all applicable warranties, guarantees and insurance are those of the subcontracted laboratory.
- 5.5 CTL shall dispose of the Client's samples 30 days after the analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable Federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at their own expense. CTL reserves the right to return to the Client any sample or unused portion of a sample that is not within CTL's permitted capability or the capabilities of CTL's designated waste disposal vendor(s).
- 5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL agrees to retain all records for five (5) years.
- 5.7 In the event that CTL is required to respond to legal process related to services for Client, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation.

6. INSURANCE

6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work. CTL shall also maintain during such period, Comprehensive General and Contractual Liability (limit of \$2,000,000 per occurrence/aggregate), Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of \$5,000,000 per occurrence/aggregate). Any Client required changes to these limits or conditions may result in a change in cost to the Client.

7. AUDIT

7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Client, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices.

Cooler Receipt Form

Ice Present (YES) NO
Temperature 28
IR Gun # 24
Initials JMB
Date 5/24/19 Time 750
Cooler #: 6307

GUSTODY SEAL
DATE 5/23/19
SIGNATURE [Signature]
QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Cooler Receipt Form

Ice Present YES NO

Temperature 3.4

IR Gun # 24

Initials JRB

Date 5/24/19 Time 750

Cooler #: XXXX





2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

LABORATORY REPORT

June 10, 2019

Dennis Linley
CT Laboratories
1230 Lange Court
Baraboo, WI 53913

RE: FF/NN Landfill Ripon / 327275.0001.0002

Dear Dennis:

Enclosed are the results of the samples submitted to our laboratory on May 23, 2019. For your reference, these analyses have been assigned our service request number P1902998.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Sue Anderson at 2:53 pm, Jun 10, 2019

Sue Anderson
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: CT Laboratories
Project: FF/NN Landfill Ripon / 327275.0001.0002

Service Request No: P1902998

CASE NARRATIVE

The samples were received intact under chain of custody on May 23, 2019 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.1 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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 Simi Valley, CA 93065
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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1521096
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-006
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413-18-9
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA016272018-9
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: CT Laboratories
 Project ID: FF/NN Landfill Ripon / 327275.0001.0002

Service Request: P1902998

Date Received: 5/23/2019
 Time Received: 09:32

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
LC-1	P1902998-001	Air	5/20/2019	16:15	1SS00882	-2.95	6.50	X
LC-2	P1902998-002	Air	5/20/2019	16:44	1SC00169	-2.28	7.04	X
LC-3	P1902998-003	Air	5/20/2019	16:55	1SC01031	-2.89	5.95	X
GV-6	P1902998-004	Air	5/20/2019	17:05	1SS00834	-2.39	6.00	X
GP-3	P1902998-005	Air	5/20/2019	18:15	1SC01203	-2.99	7.25	X



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161
 Fax (805) 526-7270

Company Name & Address (Reporting Information) TRC Companies 708 Heartland Trail Suite 3000 Madison WI 53717		Project Name FF/NN Landfill Ripon		Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard		ALS Project No. P1902999	
Project Manager Marita Stollenwerk		Project Number SAC 138000		Analysis Method		Comments e.g. Actual Preservative or specific instructions	
Phone (626) 879-1220		P.O. # / Billing Information 138000		Sampler (Print & Sign) Sohn Koelke		ALS Contact	
Email Address for Result Reporting ppopp@trccompanies.com		Canister ID (Bar code # - AC, SC, etc.) 15500882		Flow Controller ID (Barcode # - FC #) AVG03637		Canister Start Pressure "Hg -30	
Client Sample ID LC-1		Date Collected 5/20/19		Time Collected 16:15		Canister End Pressure "Hg/psig -6.30	
LC-2		5/20/19		16:44		-4.96	
LC-3		5/20/19		16:55		-6.09	
GV-6		5/20/19		17:05		-4.88	
GP-3		5/20/19		18:15		25.10	
GF-3		5/20/19		18:15		23.38	
						Sample Volume 23.7	
						23.54	
						23.91	
						25.10	
						23.38	
						Chain of Custody Seal: (Circle) INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>	
Relinquished by: (Signature) 		Date: 5/20/19		Time: 19:45		Date: 5/20/19	
Relinquished by: (Signature) 		Date: 5/20/19		Time: 09:32		Date: 5/20/19	
						Project Requirements (MRLs, QAPP)	

**ALS Environmental
Sample Acceptance Check Form**

Client: CT Laboratories Work order: P1902998
 Project: FF/NN Landfill Ripon / 327275.0001.0002
 Sample(s) received on: 5/23/2019 Date opened: 5/23/2019 by: HAYDEN.AKERS

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1902998-001.01	1.0 L Source Silonite Canister					
P1902998-002.01	1.0 L Source Can					
P1902998-003.01	1.0 L Source Can					
P1902998-004.01	1.0 L Source Silonite Canister					
P1902998-005.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: CT Laboratories

Client Sample ID: LC-1

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00882

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.95 Final Pressure (psig): 6.50

Container Dilution Factor: 1.80

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	270	2.3	160	1.4	
75-71-8	Dichlorodifluoromethane (CFC 12)	50	2.3	10	0.47	
74-87-3	Chloromethane	ND	2.3	ND	1.1	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	75	2.3	11	0.33	
75-01-4	Vinyl Chloride	5.0	2.4	2.0	0.93	
106-99-0	1,3-Butadiene	ND	2.3	ND	1.1	
74-83-9	Bromomethane	ND	2.3	ND	0.58	
75-00-3	Chloroethane	10	2.3	3.8	0.87	
64-17-5	Ethanol	31	23	16	12	
75-05-8	Acetonitrile	ND	2.3	ND	1.4	
107-02-8	Acrolein	ND	4.5	ND	2.0	
67-64-1	Acetone	51	24	22	10	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	2.4	ND	0.42	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	9.5	ND	3.8	
107-13-1	Acrylonitrile	ND	2.3	ND	1.1	
75-35-4	1,1-Dichloroethene	ND	2.4	ND	0.61	
75-09-2	Methylene Chloride	ND	2.4	ND	0.70	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.4	ND	0.76	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.4	ND	0.31	
75-15-0	Carbon Disulfide	21	5.0	6.6	1.6	
156-60-5	trans-1,2-Dichloroethene	ND	2.4	ND	0.60	
75-34-3	1,1-Dichloroethane	ND	2.3	ND	0.58	
1634-04-4	Methyl tert-Butyl Ether	ND	2.4	ND	0.67	
108-05-4	Vinyl Acetate	ND	24	ND	6.8	
78-93-3	2-Butanone (MEK)	47	4.5	16	1.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: CT Laboratories

Client Sample ID: LC-1

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00882

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.95 Final Pressure (psig): 6.50

Container Dilution Factor: 1.80

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	17	2.4	4.4	0.60	
141-78-6	Ethyl Acetate	7.1	5.0	2.0	1.4	
110-54-3	n-Hexane	88	2.4	25	0.69	
67-66-3	Chloroform	ND	2.4	ND	0.50	
109-99-9	Tetrahydrofuran (THF)	96	2.4	32	0.81	
107-06-2	1,2-Dichloroethane	ND	2.4	ND	0.59	
71-55-6	1,1,1-Trichloroethane	ND	2.4	ND	0.45	
71-43-2	Benzene	6.6	2.3	2.1	0.73	
56-23-5	Carbon Tetrachloride	ND	2.3	ND	0.37	
110-82-7	Cyclohexane	44	4.5	13	1.3	
78-87-5	1,2-Dichloropropane	ND	2.4	ND	0.53	
75-27-4	Bromodichloromethane	ND	2.4	ND	0.36	
79-01-6	Trichloroethene	ND	2.4	ND	0.44	
123-91-1	1,4-Dioxane	ND	2.4	ND	0.66	
80-62-6	Methyl Methacrylate	ND	5.0	ND	1.2	
142-82-5	n-Heptane	18	2.4	4.4	0.59	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	ND	0.56	
108-10-1	4-Methyl-2-pentanone	ND	2.4	ND	0.58	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	ND	0.53	
79-00-5	1,1,2-Trichloroethane	ND	2.4	ND	0.45	
108-88-3	Toluene	23	2.4	6.0	0.63	
591-78-6	2-Hexanone	ND	2.4	ND	0.59	
124-48-1	Dibromochloromethane	ND	2.4	ND	0.29	
106-93-4	1,2-Dibromoethane	ND	2.4	ND	0.32	
123-86-4	n-Butyl Acetate	ND	2.4	ND	0.51	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: CT Laboratories

Client Sample ID: LC-1

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00882

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.95 Final Pressure (psig): 6.50

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	3.8	2.4	0.82	0.52	
127-18-4	Tetrachloroethene	ND	2.4	ND	0.35	
108-90-7	Chlorobenzene	ND	2.4	ND	0.52	
100-41-4	Ethylbenzene	ND	2.3	ND	0.54	
179601-23-1	m,p-Xylenes	ND	5.0	ND	1.1	
75-25-2	Bromoform	ND	2.4	ND	0.23	
100-42-5	Styrene	ND	2.4	ND	0.56	
95-47-6	o-Xylene	ND	2.4	ND	0.55	
111-84-2	n-Nonane	ND	2.4	ND	0.46	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	ND	0.35	
98-82-8	Cumene	ND	2.4	ND	0.49	
80-56-8	alpha-Pinene	ND	2.3	ND	0.42	
103-65-1	n-Propylbenzene	ND	2.4	ND	0.49	
622-96-8	4-Ethyltoluene	ND	2.4	ND	0.49	
108-67-8	1,3,5-Trimethylbenzene	ND	2.4	ND	0.49	
95-63-6	1,2,4-Trimethylbenzene	ND	2.4	ND	0.49	
100-44-7	Benzyl Chloride	ND	5.0	ND	0.96	
541-73-1	1,3-Dichlorobenzene	ND	2.4	ND	0.40	
106-46-7	1,4-Dichlorobenzene	ND	2.4	ND	0.40	
95-50-1	1,2-Dichlorobenzene	ND	2.4	ND	0.40	
5989-27-5	d-Limonene	ND	2.3	ND	0.41	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	ND	0.24	
120-82-1	1,2,4-Trichlorobenzene	ND	2.4	ND	0.32	
91-20-3	Naphthalene	ND	2.3	ND	0.44	
87-68-3	Hexachlorobutadiene	ND	2.4	ND	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: CT Laboratories

Client Sample ID: LC-2

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00169

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.28 Final Pressure (psig): 7.04

Container Dilution Factor: 1.75

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	270	2.3	160	1.3	
75-71-8	Dichlorodifluoromethane (CFC 12)	160	2.3	33	0.46	
74-87-3	Chloromethane	ND	2.2	ND	1.1	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	470	22	67	3.2	D
75-01-4	Vinyl Chloride	ND	2.3	ND	0.91	
106-99-0	1,3-Butadiene	ND	2.3	ND	1.0	
74-83-9	Bromomethane	ND	2.2	ND	0.56	
75-00-3	Chloroethane	31	2.2	12	0.85	
64-17-5	Ethanol	ND	22	ND	12	
75-05-8	Acetonitrile	ND	2.3	ND	1.4	
107-02-8	Acrolein	ND	4.4	ND	1.9	
67-64-1	Acetone	62	24	26	9.9	
75-69-4	Trichlorofluoromethane (CFC 11)	9.4	2.3	1.7	0.41	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	9.2	ND	3.7	
107-13-1	Acrylonitrile	ND	2.3	ND	1.0	
75-35-4	1,1-Dichloroethene	ND	2.4	ND	0.60	
75-09-2	Methylene Chloride	ND	2.4	ND	0.68	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.3	ND	0.74	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.3	ND	0.30	
75-15-0	Carbon Disulfide	31	4.8	10	1.5	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	ND	0.59	
75-34-3	1,1-Dichloroethane	6.2	2.3	1.5	0.56	
1634-04-4	Methyl tert-Butyl Ether	ND	2.4	ND	0.66	
108-05-4	Vinyl Acetate	ND	23	ND	6.6	
78-93-3	2-Butanone (MEK)	33	4.4	11	1.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: CT Laboratories

Client Sample ID: LC-2

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00169

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.28 Final Pressure (psig): 7.04

Container Dilution Factor: 1.75

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	3.6	2.3	0.90	0.59	
141-78-6	Ethyl Acetate	ND	4.8	ND	1.3	
110-54-3	n-Hexane	350	2.4	100	0.67	
67-66-3	Chloroform	ND	2.4	ND	0.48	
109-99-9	Tetrahydrofuran (THF)	70	2.3	24	0.79	
107-06-2	1,2-Dichloroethane	ND	2.3	ND	0.57	
71-55-6	1,1,1-Trichloroethane	ND	2.4	ND	0.43	
71-43-2	Benzene	38	2.3	12	0.71	
56-23-5	Carbon Tetrachloride	ND	2.3	ND	0.36	
110-82-7	Cyclohexane	180	4.4	51	1.3	
78-87-5	1,2-Dichloropropane	ND	2.4	ND	0.51	
75-27-4	Bromodichloromethane	ND	2.3	ND	0.35	
79-01-6	Trichloroethene	ND	2.3	ND	0.43	
123-91-1	1,4-Dioxane	ND	2.3	ND	0.64	
80-62-6	Methyl Methacrylate	ND	4.8	ND	1.2	
142-82-5	n-Heptane	190	2.4	47	0.58	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	ND	0.54	
108-10-1	4-Methyl-2-pentanone	ND	2.3	ND	0.57	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ND	0.51	
79-00-5	1,1,2-Trichloroethane	ND	2.4	ND	0.43	
108-88-3	Toluene	12	2.3	3.2	0.62	
591-78-6	2-Hexanone	ND	2.4	ND	0.58	
124-48-1	Dibromochloromethane	ND	2.4	ND	0.28	
106-93-4	1,2-Dibromoethane	ND	2.4	ND	0.31	
123-86-4	n-Butyl Acetate	ND	2.4	ND	0.50	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: CT Laboratories

Client Sample ID: LC-2

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00169

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.28 Final Pressure (psig): 7.04

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	45	2.4	9.7	0.51	
127-18-4	Tetrachloroethene	ND	2.3	ND	0.34	
108-90-7	Chlorobenzene	7.9	2.3	1.7	0.50	
100-41-4	Ethylbenzene	7.0	2.3	1.6	0.52	
179601-23-1	m,p-Xylenes	40	4.8	9.3	1.1	
75-25-2	Bromoform	ND	2.3	ND	0.22	
100-42-5	Styrene	ND	2.3	ND	0.54	
95-47-6	o-Xylene	ND	2.3	ND	0.53	
111-84-2	n-Nonane	5.8	2.4	1.1	0.45	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ND	0.34	
98-82-8	Cumene	ND	2.3	ND	0.47	
80-56-8	alpha-Pinene	3.1	2.3	0.56	0.41	
103-65-1	n-Propylbenzene	ND	2.4	ND	0.48	
622-96-8	4-Ethyltoluene	ND	2.3	ND	0.47	
108-67-8	1,3,5-Trimethylbenzene	ND	2.3	ND	0.47	
95-63-6	1,2,4-Trimethylbenzene	ND	2.3	ND	0.47	
100-44-7	Benzyl Chloride	ND	4.8	ND	0.93	
541-73-1	1,3-Dichlorobenzene	ND	2.4	ND	0.39	
106-46-7	1,4-Dichlorobenzene	ND	2.4	ND	0.39	
95-50-1	1,2-Dichlorobenzene	ND	2.4	ND	0.39	
5989-27-5	d-Limonene	ND	2.2	ND	0.40	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	ND	0.24	
120-82-1	1,2,4-Trichlorobenzene	ND	2.3	ND	0.31	
91-20-3	Naphthalene	ND	2.2	ND	0.43	
87-68-3	Hexachlorobutadiene	ND	2.3	ND	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: CT Laboratories

Client Sample ID: LC-3

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01031

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.89 Final Pressure (psig): 5.95

Container Dilution Factor: 1.75

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	280	2.3	160	1.3	
75-71-8	Dichlorodifluoromethane (CFC 12)	490	23	98	4.6	D
74-87-3	Chloromethane	2.2	2.2	1.1	1.1	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	220	2.2	32	0.32	
75-01-4	Vinyl Chloride	190	2.3	74	0.91	
106-99-0	1,3-Butadiene	2.3	2.3	1.0	1.0	
74-83-9	Bromomethane	ND	2.2	ND	0.56	
75-00-3	Chloroethane	6.3	2.2	2.4	0.85	
64-17-5	Ethanol	ND	22	ND	12	
75-05-8	Acetonitrile	ND	2.3	ND	1.4	
107-02-8	Acrolein	ND	4.4	ND	1.9	
67-64-1	Acetone	51	24	21	9.9	
75-69-4	Trichlorofluoromethane (CFC 11)	48	2.3	8.5	0.41	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	9.2	ND	3.7	
107-13-1	Acrylonitrile	ND	2.3	ND	1.0	
75-35-4	1,1-Dichloroethene	4.6	2.4	1.2	0.60	
75-09-2	Methylene Chloride	9.3	2.4	2.7	0.68	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.3	ND	0.74	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.3	ND	0.30	
75-15-0	Carbon Disulfide	16	4.8	5.1	1.5	
156-60-5	trans-1,2-Dichloroethene	7.8	2.3	2.0	0.59	
75-34-3	1,1-Dichloroethane	5.4	2.3	1.3	0.56	
1634-04-4	Methyl tert-Butyl Ether	3.0	2.4	0.82	0.66	
108-05-4	Vinyl Acetate	ND	23	ND	6.6	
78-93-3	2-Butanone (MEK)	22	4.4	7.4	1.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: CT Laboratories

Client Sample ID: LC-3

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01031

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.89 Final Pressure (psig): 5.95

Container Dilution Factor: 1.75

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	460	23	120	5.9	D
141-78-6	Ethyl Acetate	ND	4.8	ND	1.3	
110-54-3	n-Hexane	140	2.4	38	0.67	
67-66-3	Chloroform	ND	2.4	ND	0.48	
109-99-9	Tetrahydrofuran (THF)	60	2.3	20	0.79	
107-06-2	1,2-Dichloroethane	ND	2.3	ND	0.57	
71-55-6	1,1,1-Trichloroethane	ND	2.4	ND	0.43	
71-43-2	Benzene	22	2.3	6.9	0.71	
56-23-5	Carbon Tetrachloride	ND	2.3	ND	0.36	
110-82-7	Cyclohexane	96	4.4	28	1.3	
78-87-5	1,2-Dichloropropane	ND	2.4	ND	0.51	
75-27-4	Bromodichloromethane	ND	2.3	ND	0.35	
79-01-6	Trichloroethene	44	2.3	8.2	0.43	
123-91-1	1,4-Dioxane	ND	2.3	ND	0.64	
80-62-6	Methyl Methacrylate	ND	4.8	ND	1.2	
142-82-5	n-Heptane	53	2.4	13	0.58	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	ND	0.54	
108-10-1	4-Methyl-2-pentanone	ND	2.3	ND	0.57	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ND	0.51	
79-00-5	1,1,2-Trichloroethane	ND	2.4	ND	0.43	
108-88-3	Toluene	600	23	160	6.2	D
591-78-6	2-Hexanone	ND	2.4	ND	0.58	
124-48-1	Dibromochloromethane	ND	2.4	ND	0.28	
106-93-4	1,2-Dibromoethane	ND	2.4	ND	0.31	
123-86-4	n-Butyl Acetate	ND	2.4	ND	0.50	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: CT Laboratories

Client Sample ID: LC-3

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01031

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.89 Final Pressure (psig): 5.95

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	13	2.4	2.8	0.51	
127-18-4	Tetrachloroethene	3.1	2.3	0.46	0.34	
108-90-7	Chlorobenzene	ND	2.3	ND	0.50	
100-41-4	Ethylbenzene	25	2.3	5.8	0.52	
179601-23-1	m,p-Xylenes	62	4.8	14	1.1	
75-25-2	Bromoform	ND	2.3	ND	0.22	
100-42-5	Styrene	ND	2.3	ND	0.54	
95-47-6	o-Xylene	8.7	2.3	2.0	0.53	
111-84-2	n-Nonane	5.8	2.4	1.1	0.45	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ND	0.34	
98-82-8	Cumene	ND	2.3	ND	0.47	
80-56-8	alpha-Pinene	2.4	2.3	0.43	0.41	
103-65-1	n-Propylbenzene	ND	2.4	ND	0.48	
622-96-8	4-Ethyltoluene	ND	2.3	ND	0.47	
108-67-8	1,3,5-Trimethylbenzene	ND	2.3	ND	0.47	
95-63-6	1,2,4-Trimethylbenzene	ND	2.3	ND	0.47	
100-44-7	Benzyl Chloride	ND	4.8	ND	0.93	
541-73-1	1,3-Dichlorobenzene	ND	2.4	ND	0.39	
106-46-7	1,4-Dichlorobenzene	ND	2.4	ND	0.39	
95-50-1	1,2-Dichlorobenzene	ND	2.4	ND	0.39	
5989-27-5	d-Limonene	ND	2.2	ND	0.40	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	ND	0.24	
120-82-1	1,2,4-Trichlorobenzene	ND	2.3	ND	0.31	
91-20-3	Naphthalene	ND	2.2	ND	0.43	
87-68-3	Hexachlorobutadiene	ND	2.3	ND	0.22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: CT Laboratories

Client Sample ID: GV-6

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00834

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.39 Final Pressure (psig): 6.00

Container Dilution Factor: 1.68

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	370	2.2	210	1.3	
75-71-8	Dichlorodifluoromethane (CFC 12)	180	2.2	36	0.44	
74-87-3	Chloromethane	ND	2.1	ND	1.0	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	830	21	120	3.1	D
75-01-4	Vinyl Chloride	ND	2.2	ND	0.87	
106-99-0	1,3-Butadiene	2.6	2.2	1.2	0.99	
74-83-9	Bromomethane	ND	2.1	ND	0.54	
75-00-3	Chloroethane	41	2.1	16	0.81	
64-17-5	Ethanol	25	21	13	11	
75-05-8	Acetonitrile	ND	2.2	ND	1.3	
107-02-8	Acrolein	8.8	4.2	3.8	1.8	
67-64-1	Acetone	30	23	13	9.6	
75-69-4	Trichlorofluoromethane (CFC 11)	11	2.2	1.9	0.40	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	8.8	ND	3.6	
107-13-1	Acrylonitrile	ND	2.2	ND	1.0	
75-35-4	1,1-Dichloroethene	ND	2.3	ND	0.57	
75-09-2	Methylene Chloride	ND	2.3	ND	0.65	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.2	ND	0.71	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.2	ND	0.29	
75-15-0	Carbon Disulfide	ND	4.6	ND	1.5	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	ND	0.56	
75-34-3	1,1-Dichloroethane	8.6	2.2	2.1	0.54	
1634-04-4	Methyl tert-Butyl Ether	3.4	2.3	0.93	0.63	
108-05-4	Vinyl Acetate	ND	22	ND	6.3	
78-93-3	2-Butanone (MEK)	40	4.2	14	1.4	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: CT Laboratories

Client Sample ID: GV-6

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00834

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.39 Final Pressure (psig): 6.00

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.2	ND	0.56	
141-78-6	Ethyl Acetate	ND	4.6	ND	1.3	
110-54-3	n-Hexane	140	2.3	39	0.64	
67-66-3	Chloroform	ND	2.3	ND	0.46	
109-99-9	Tetrahydrofuran (THF)	34	2.2	12	0.76	
107-06-2	1,2-Dichloroethane	ND	2.2	ND	0.55	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ND	0.42	
71-43-2	Benzene	4.6	2.2	1.5	0.68	
56-23-5	Carbon Tetrachloride	ND	2.2	ND	0.35	
110-82-7	Cyclohexane	160	4.2	46	1.2	
78-87-5	1,2-Dichloropropane	ND	2.3	ND	0.49	
75-27-4	Bromodichloromethane	ND	2.2	ND	0.33	
79-01-6	Trichloroethene	ND	2.2	ND	0.41	
123-91-1	1,4-Dioxane	ND	2.2	ND	0.62	
80-62-6	Methyl Methacrylate	ND	4.6	ND	1.1	
142-82-5	n-Heptane	44	2.3	11	0.55	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	ND	0.52	
108-10-1	4-Methyl-2-pentanone	ND	2.2	ND	0.54	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ND	0.49	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ND	0.42	
108-88-3	Toluene	3.0	2.2	0.81	0.59	
591-78-6	2-Hexanone	ND	2.3	ND	0.55	
124-48-1	Dibromochloromethane	ND	2.3	ND	0.27	
106-93-4	1,2-Dibromoethane	ND	2.3	ND	0.30	
123-86-4	n-Butyl Acetate	ND	2.3	ND	0.48	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: CT Laboratories

Client Sample ID: GV-6

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00834

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.39 Final Pressure (psig): 6.00

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	15	2.3	3.1	0.49	
127-18-4	Tetrachloroethene	ND	2.2	ND	0.33	
108-90-7	Chlorobenzene	ND	2.2	ND	0.48	
100-41-4	Ethylbenzene	4.8	2.2	1.1	0.50	
179601-23-1	m,p-Xylenes	ND	4.6	ND	1.1	
75-25-2	Bromoform	ND	2.2	ND	0.22	
100-42-5	Styrene	ND	2.2	ND	0.52	
95-47-6	o-Xylene	ND	2.2	ND	0.51	
111-84-2	n-Nonane	3.3	2.3	0.63	0.43	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ND	0.32	
98-82-8	Cumene	ND	2.2	ND	0.45	
80-56-8	alpha-Pinene	4.8	2.2	0.86	0.39	
103-65-1	n-Propylbenzene	ND	2.3	ND	0.46	
622-96-8	4-Ethyltoluene	ND	2.2	ND	0.45	
108-67-8	1,3,5-Trimethylbenzene	ND	2.2	ND	0.45	
95-63-6	1,2,4-Trimethylbenzene	ND	2.2	ND	0.45	
100-44-7	Benzyl Chloride	ND	4.6	ND	0.89	
541-73-1	1,3-Dichlorobenzene	ND	2.3	ND	0.38	
106-46-7	1,4-Dichlorobenzene	ND	2.3	ND	0.38	
95-50-1	1,2-Dichlorobenzene	ND	2.3	ND	0.38	
5989-27-5	d-Limonene	ND	2.1	ND	0.38	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.2	ND	0.23	
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	ND	0.30	
91-20-3	Naphthalene	ND	2.1	ND	0.41	
87-68-3	Hexachlorobutadiene	ND	2.2	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: CT Laboratories

Client Sample ID: GP-3

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01203

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.25

Container Dilution Factor: 1.87

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	20	2.4	12	1.4	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	2.4	0.54	0.49	
74-87-3	Chloromethane	ND	2.3	ND	1.1	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.4	ND	0.34	
75-01-4	Vinyl Chloride	ND	2.5	ND	0.97	
106-99-0	1,3-Butadiene	ND	2.4	ND	1.1	
74-83-9	Bromomethane	ND	2.3	ND	0.60	
75-00-3	Chloroethane	ND	2.4	ND	0.90	
64-17-5	Ethanol	68	24	36	13	
75-05-8	Acetonitrile	ND	2.4	ND	1.4	
107-02-8	Acrolein	ND	4.7	ND	2.0	
67-64-1	Acetone	ND	25	ND	11	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	2.5	ND	0.44	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	9.8	ND	4.0	
107-13-1	Acrylonitrile	ND	2.4	ND	1.1	
75-35-4	1,1-Dichloroethene	ND	2.5	ND	0.64	
75-09-2	Methylene Chloride	ND	2.5	ND	0.73	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.5	ND	0.79	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.5	ND	0.32	
75-15-0	Carbon Disulfide	ND	5.1	ND	1.7	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	ND	0.63	
75-34-3	1,1-Dichloroethane	ND	2.4	ND	0.60	
1634-04-4	Methyl tert-Butyl Ether	ND	2.5	ND	0.70	
108-05-4	Vinyl Acetate	ND	25	ND	7.0	
78-93-3	2-Butanone (MEK)	ND	4.7	ND	1.6	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: CT Laboratories

Client Sample ID: GP-3

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01203

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.25

Container Dilution Factor: 1.87

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	2.5	ND	0.63	
141-78-6	Ethyl Acetate	ND	5.1	ND	1.4	
110-54-3	n-Hexane	ND	2.5	ND	0.72	
67-66-3	Chloroform	ND	2.5	ND	0.52	
109-99-9	Tetrahydrofuran (THF)	ND	2.5	ND	0.84	
107-06-2	1,2-Dichloroethane	ND	2.5	ND	0.61	
71-55-6	1,1,1-Trichloroethane	ND	2.5	ND	0.46	
71-43-2	Benzene	ND	2.4	ND	0.76	
56-23-5	Carbon Tetrachloride	ND	2.4	ND	0.39	
110-82-7	Cyclohexane	ND	4.7	ND	1.4	
78-87-5	1,2-Dichloropropane	ND	2.5	ND	0.55	
75-27-4	Bromodichloromethane	ND	2.5	ND	0.37	
79-01-6	Trichloroethene	ND	2.5	ND	0.46	
123-91-1	1,4-Dioxane	ND	2.5	ND	0.69	
80-62-6	Methyl Methacrylate	ND	5.1	ND	1.3	
142-82-5	n-Heptane	ND	2.5	ND	0.62	
10061-01-5	cis-1,3-Dichloropropene	ND	2.6	ND	0.58	
108-10-1	4-Methyl-2-pentanone	ND	2.5	ND	0.60	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	ND	0.55	
79-00-5	1,1,2-Trichloroethane	ND	2.5	ND	0.46	
108-88-3	Toluene	ND	2.5	ND	0.66	
591-78-6	2-Hexanone	ND	2.5	ND	0.62	
124-48-1	Dibromochloromethane	ND	2.5	ND	0.30	
106-93-4	1,2-Dibromoethane	ND	2.5	ND	0.33	
123-86-4	n-Butyl Acetate	ND	2.5	ND	0.53	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: CT Laboratories

Client Sample ID: GP-3

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P1902998-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01203

Date Collected: 5/20/19

Date Received: 5/23/19

Date Analyzed: 6/7/19

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.25

Container Dilution Factor: 1.87

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	9.2	2.5	2.0	0.54	
127-18-4	Tetrachloroethene	ND	2.5	ND	0.37	
108-90-7	Chlorobenzene	ND	2.5	ND	0.54	
100-41-4	Ethylbenzene	ND	2.4	ND	0.56	
179601-23-1	m,p-Xylenes	ND	5.1	ND	1.2	
75-25-2	Bromoform	ND	2.5	ND	0.24	
100-42-5	Styrene	ND	2.5	ND	0.58	
95-47-6	o-Xylene	ND	2.5	ND	0.57	
111-84-2	n-Nonane	ND	2.5	ND	0.48	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	ND	0.36	
98-82-8	Cumene	ND	2.5	ND	0.50	
80-56-8	alpha-Pinene	ND	2.4	ND	0.44	
103-65-1	n-Propylbenzene	ND	2.5	ND	0.51	
622-96-8	4-Ethyltoluene	ND	2.5	ND	0.50	
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	ND	0.50	
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	ND	0.50	
100-44-7	Benzyl Chloride	ND	5.1	ND	0.99	
541-73-1	1,3-Dichlorobenzene	ND	2.5	ND	0.42	
106-46-7	1,4-Dichlorobenzene	ND	2.5	ND	0.42	
95-50-1	1,2-Dichlorobenzene	ND	2.5	ND	0.42	
5989-27-5	d-Limonene	ND	2.4	ND	0.43	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	ND	0.25	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	ND	0.33	
91-20-3	Naphthalene	ND	2.4	ND	0.46	
87-68-3	Hexachlorobutadiene	ND	2.5	ND	0.23	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: CT Laboratories

Client Sample ID: Method Blank

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P190607-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 6/7/19

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.52	ND	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.52	ND	0.11	
74-87-3	Chloromethane	ND	0.50	ND	0.24	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.51	ND	0.073	
75-01-4	Vinyl Chloride	ND	0.53	ND	0.21	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
74-83-9	Bromomethane	ND	0.50	ND	0.13	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
64-17-5	Ethanol	ND	5.1	ND	2.7	
75-05-8	Acetonitrile	ND	0.52	ND	0.31	
107-02-8	Acrolein	ND	1.0	ND	0.44	
67-64-1	Acetone	ND	5.4	ND	2.3	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.53	ND	0.094	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	2.1	ND	0.85	
107-13-1	Acrylonitrile	ND	0.52	ND	0.24	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
75-09-2	Methylene Chloride	ND	0.54	ND	0.16	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.53	ND	0.069	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
75-34-3	1,1-Dichloroethane	ND	0.52	ND	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	ND	0.15	
108-05-4	Vinyl Acetate	ND	5.3	ND	1.5	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: CT Laboratories

Client Sample ID: Method Blank

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P190607-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 6/7/19

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.53	ND	0.13	
141-78-6	Ethyl Acetate	ND	1.1	ND	0.31	
110-54-3	n-Hexane	ND	0.54	ND	0.15	
67-66-3	Chloroform	ND	0.54	ND	0.11	
109-99-9	Tetrahydrofuran (THF)	ND	0.53	ND	0.18	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
71-55-6	1,1,1-Trichloroethane	ND	0.54	ND	0.099	
71-43-2	Benzene	ND	0.52	ND	0.16	
56-23-5	Carbon Tetrachloride	ND	0.52	ND	0.083	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	0.54	ND	0.12	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
79-01-6	Trichloroethene	ND	0.53	ND	0.099	
123-91-1	1,4-Dioxane	ND	0.53	ND	0.15	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
142-82-5	n-Heptane	ND	0.54	ND	0.13	
10061-01-5	cis-1,3-Dichloropropene	ND	0.56	ND	0.12	
108-10-1	4-Methyl-2-pentanone	ND	0.53	ND	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	0.53	ND	0.12	
79-00-5	1,1,2-Trichloroethane	ND	0.54	ND	0.099	
108-88-3	Toluene	ND	0.53	ND	0.14	
591-78-6	2-Hexanone	ND	0.54	ND	0.13	
124-48-1	Dibromochloromethane	ND	0.54	ND	0.063	
106-93-4	1,2-Dibromoethane	ND	0.54	ND	0.070	
123-86-4	n-Butyl Acetate	ND	0.54	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: CT Laboratories

Client Sample ID: Method Blank

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P190607-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 6/7/19

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.54	ND	0.12	
127-18-4	Tetrachloroethene	ND	0.53	ND	0.078	
108-90-7	Chlorobenzene	ND	0.53	ND	0.12	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
75-25-2	Bromoform	ND	0.53	ND	0.051	
100-42-5	Styrene	ND	0.53	ND	0.12	
95-47-6	o-Xylene	ND	0.53	ND	0.12	
111-84-2	n-Nonane	ND	0.54	ND	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.53	ND	0.077	
98-82-8	Cumene	ND	0.53	ND	0.11	
80-56-8	alpha-Pinene	ND	0.52	ND	0.093	
103-65-1	n-Propylbenzene	ND	0.54	ND	0.11	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.53	ND	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	0.53	ND	0.11	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	0.54	ND	0.090	
106-46-7	1,4-Dichlorobenzene	ND	0.54	ND	0.090	
95-50-1	1,2-Dichlorobenzene	ND	0.54	ND	0.090	
5989-27-5	d-Limonene	ND	0.51	ND	0.092	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.52	ND	0.054	
120-82-1	1,2,4-Trichlorobenzene	ND	0.53	ND	0.071	
91-20-3	Naphthalene	ND	0.51	ND	0.097	
87-68-3	Hexachlorobutadiene	ND	0.53	ND	0.050	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: CT Laboratories
Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 5/20/19
 Date(s) Received: 5/23/19
 Date(s) Analyzed: 6/7/19

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P190607-MB	105	103	103	70-130	
Lab Control Sample	P190607-LCS	104	101	109	70-130	
LC-1	P1902998-001	106	103	105	70-130	
LC-2	P1902998-002	104	96	102	70-130	
LC-3	P1902998-003	98	104	108	70-130	
GV-6	P1902998-004	103	96	101	70-130	
GP-3	P1902998-005	98	103	107	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: CT Laboratories

Client Sample ID: Lab Control Sample

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P190607-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 6/7/19

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	211	183	87	53-112	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	207	99	62-103	
74-87-3	Chloromethane	211	208	99	51-121	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	211	100	56-111	
75-01-4	Vinyl Chloride	214	215	100	57-117	
106-99-0	1,3-Butadiene	210	214	102	53-134	
74-83-9	Bromomethane	212	206	97	65-110	
75-00-3	Chloroethane	214	198	93	64-111	
64-17-5	Ethanol	1,020	908	89	57-124	
75-05-8	Acetonitrile	206	200	97	57-126	
107-02-8	Acrolein	205	196	96	62-121	
67-64-1	Acetone	1,060	882	83	60-113	
75-69-4	Trichlorofluoromethane (CFC 11)	211	210	100	63-104	
67-63-0	2-Propanol (Isopropyl Alcohol)	413	396	96	60-124	
107-13-1	Acrylonitrile	207	219	106	66-125	
75-35-4	1,1-Dichloroethene	218	208	95	68-107	
75-09-2	Methylene Chloride	217	207	95	66-105	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	216	203	94	63-127	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	208	96	59-109	
75-15-0	Carbon Disulfide	218	193	89	67-109	
156-60-5	trans-1,2-Dichloroethene	214	213	100	70-115	
75-34-3	1,1-Dichloroethane	216	198	92	66-106	
1634-04-4	Methyl tert-Butyl Ether	214	205	96	67-109	
108-05-4	Vinyl Acetate	1,060	1070	101	68-136	
78-93-3	2-Butanone (MEK)	208	189	91	71-116	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: CT Laboratories

Client Sample ID: Lab Control Sample

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P190607-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 6/7/19

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	211	202	96	67-110	
141-78-6	Ethyl Acetate	436	417	96	64-127	
110-54-3	n-Hexane	216	187	87	60-115	
67-66-3	Chloroform	217	210	97	66-105	
109-99-9	Tetrahydrofuran (THF)	216	191	88	65-110	
107-06-2	1,2-Dichloroethane	215	221	103	60-110	
71-55-6	1,1,1-Trichloroethane	215	216	100	64-108	
71-43-2	Benzene	211	196	93	67-106	
56-23-5	Carbon Tetrachloride	212	219	103	64-112	
110-82-7	Cyclohexane	416	388	93	67-110	
78-87-5	1,2-Dichloropropane	216	195	90	66-112	
75-27-4	Bromodichloromethane	215	219	102	67-113	
79-01-6	Trichloroethene	213	212	100	66-108	
123-91-1	1,4-Dioxane	214	206	96	70-116	
80-62-6	Methyl Methacrylate	431	420	97	73-118	
142-82-5	n-Heptane	215	195	91	66-110	
10061-01-5	cis-1,3-Dichloropropene	214	221	103	75-120	
108-10-1	4-Methyl-2-pentanone	209	200	96	65-124	
10061-02-6	trans-1,3-Dichloropropene	213	227	107	77-123	
79-00-5	1,1,2-Trichloroethane	215	210	98	68-112	
108-88-3	Toluene	212	204	96	62-111	
591-78-6	2-Hexanone	214	215	100	59-128	
124-48-1	Dibromochloromethane	213	238	112	67-123	
106-93-4	1,2-Dibromoethane	216	237	110	66-122	
123-86-4	n-Butyl Acetate	219	220	100	64-128	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: CT Laboratories

Client Sample ID: Lab Control Sample

Client Project ID: FF/NN Landfill Ripon / 327275.0001.0002

ALS Project ID: P1902998

ALS Sample ID: P190607-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 6/7/19

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

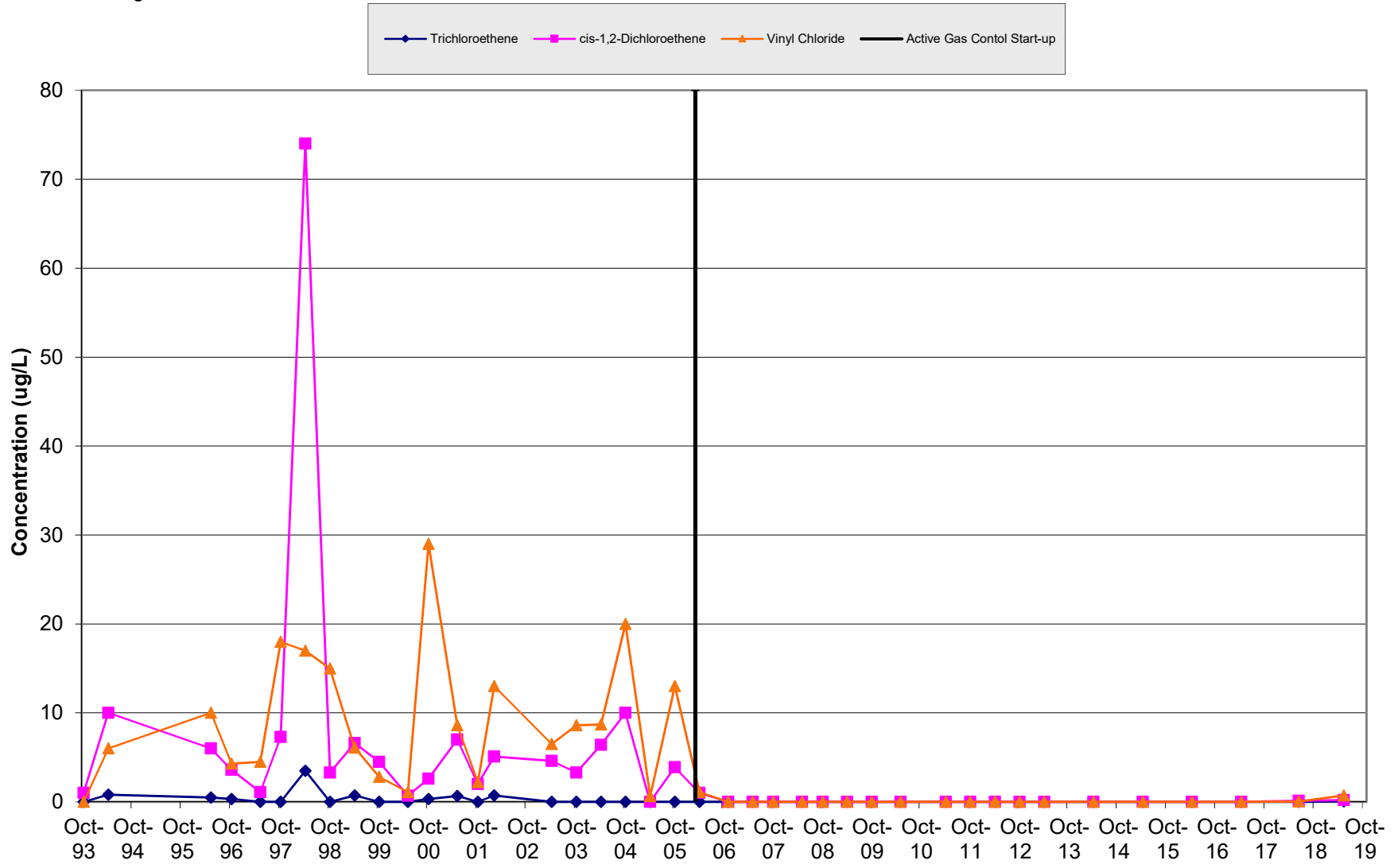
CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	217	203	94	65-114	
127-18-4	Tetrachloroethene	213	219	103	55-120	
108-90-7	Chlorobenzene	215	217	101	61-114	
100-41-4	Ethylbenzene	212	207	98	64-113	
179601-23-1	m,p-Xylenes	426	429	101	64-114	
75-25-2	Bromoform	213	234	110	65-132	
100-42-5	Styrene	212	228	108	67-124	
95-47-6	o-Xylene	214	215	100	65-114	
111-84-2	n-Nonane	215	205	95	64-117	
79-34-5	1,1,2,2-Tetrachloroethane	214	214	100	66-119	
98-82-8	Cumene	214	219	102	61-116	
80-56-8	alpha-Pinene	211	213	101	65-120	
103-65-1	n-Propylbenzene	218	221	101	63-117	
622-96-8	4-Ethyltoluene	214	232	108	63-124	
108-67-8	1,3,5-Trimethylbenzene	214	215	100	60-117	
95-63-6	1,2,4-Trimethylbenzene	215	231	107	61-122	
100-44-7	Benzyl Chloride	217	242	112	77-142	
541-73-1	1,3-Dichlorobenzene	216	246	114	61-125	
106-46-7	1,4-Dichlorobenzene	216	243	113	59-123	
95-50-1	1,2-Dichlorobenzene	216	245	113	61-126	
5989-27-5	d-Limonene	211	217	103	66-124	
96-12-8	1,2-Dibromo-3-chloropropane	209	242	116	67-138	
120-82-1	1,2,4-Trichlorobenzene	214	267	125	62-141	
91-20-3	Naphthalene	203	252	124	62-145	
87-68-3	Hexachlorobutadiene	209	223	107	49-131	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

Appendix C: Groundwater Concentration Trend Graphs

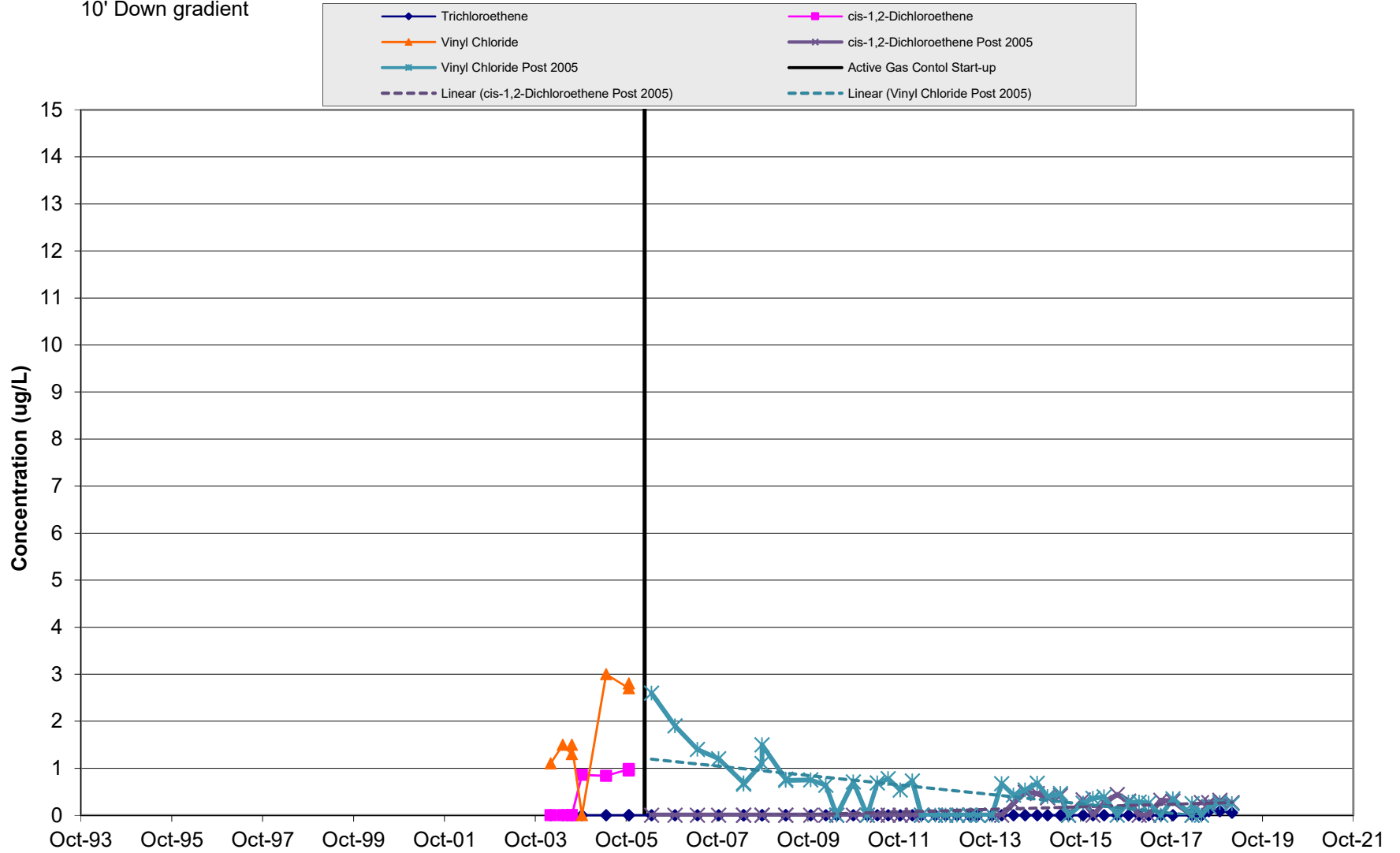
MW-104 Layer 1 Well

Side gradient



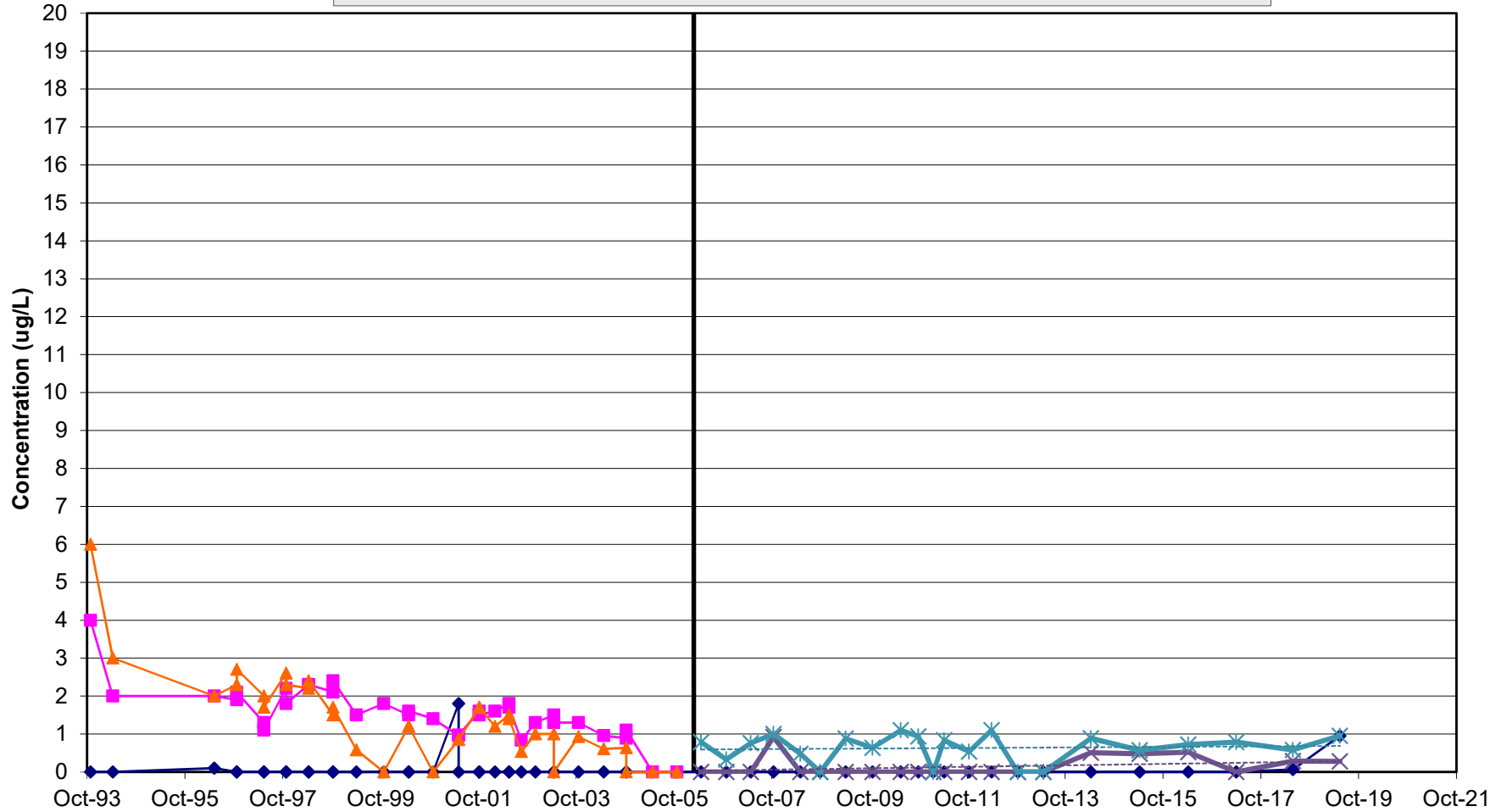
P-103D Layer 3 Well

10' Down gradient



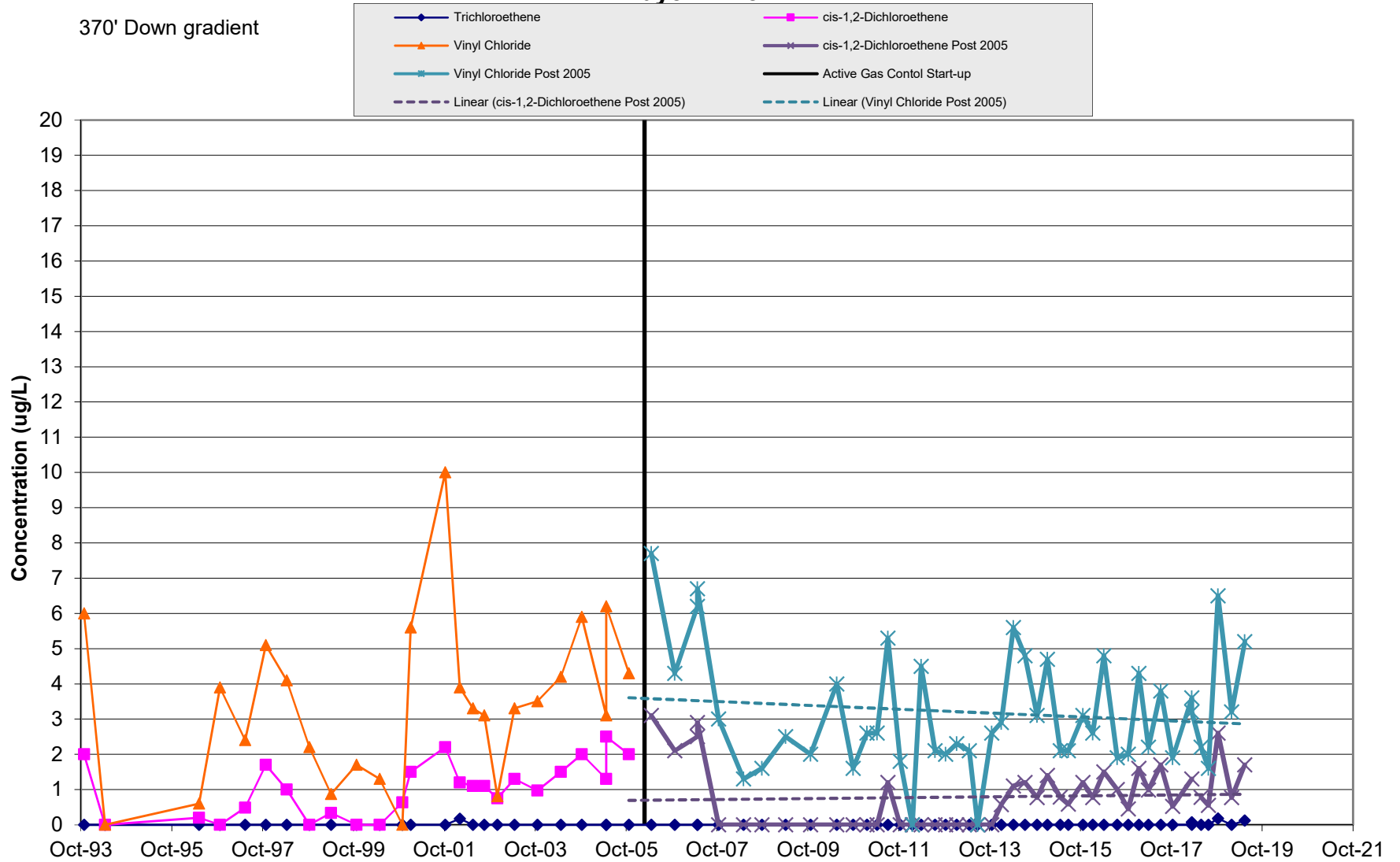
P-107 Layer 2 Well

370' Down gradient



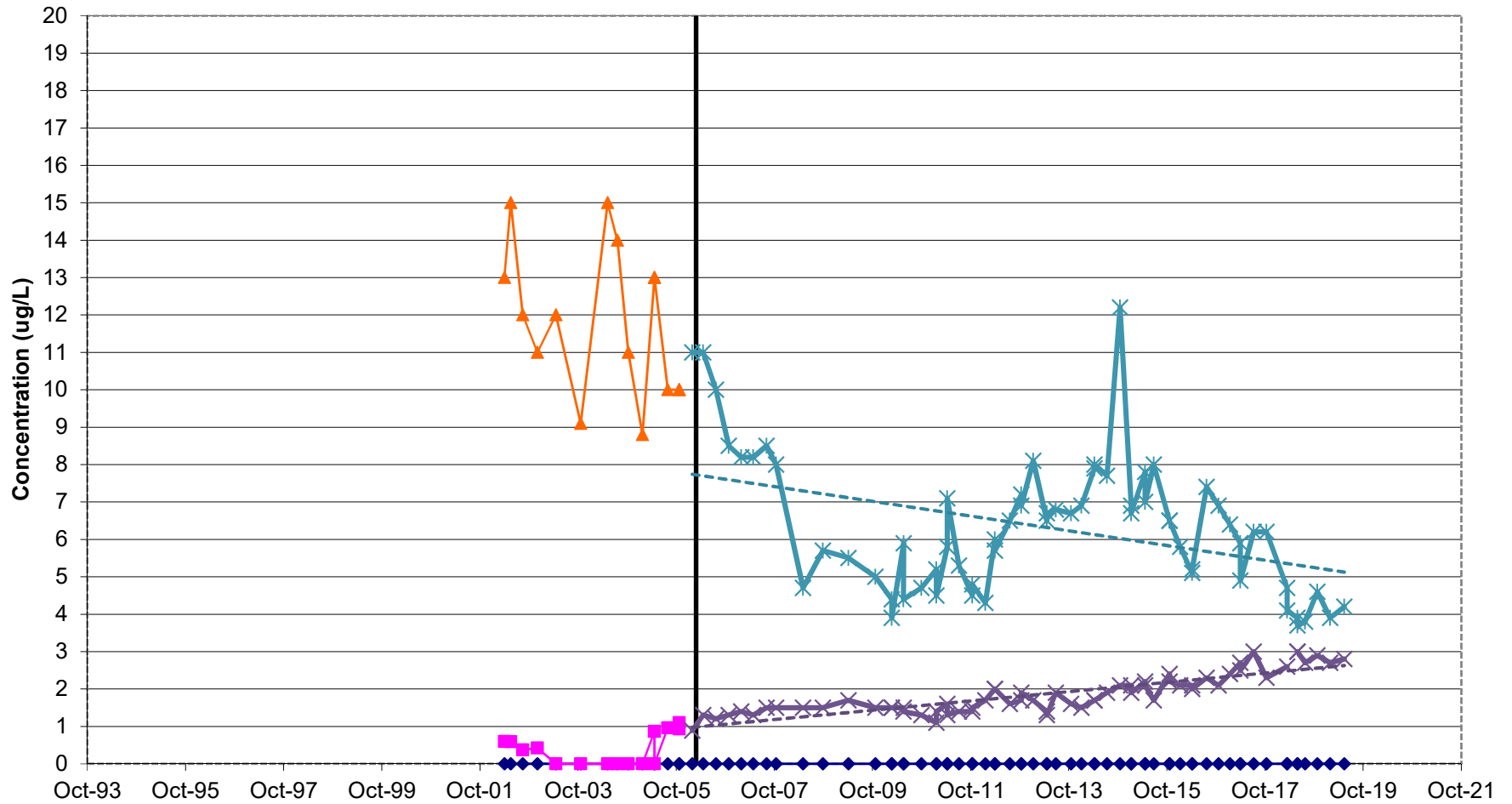
P-107D Layer 4 Well

370' Down gradient



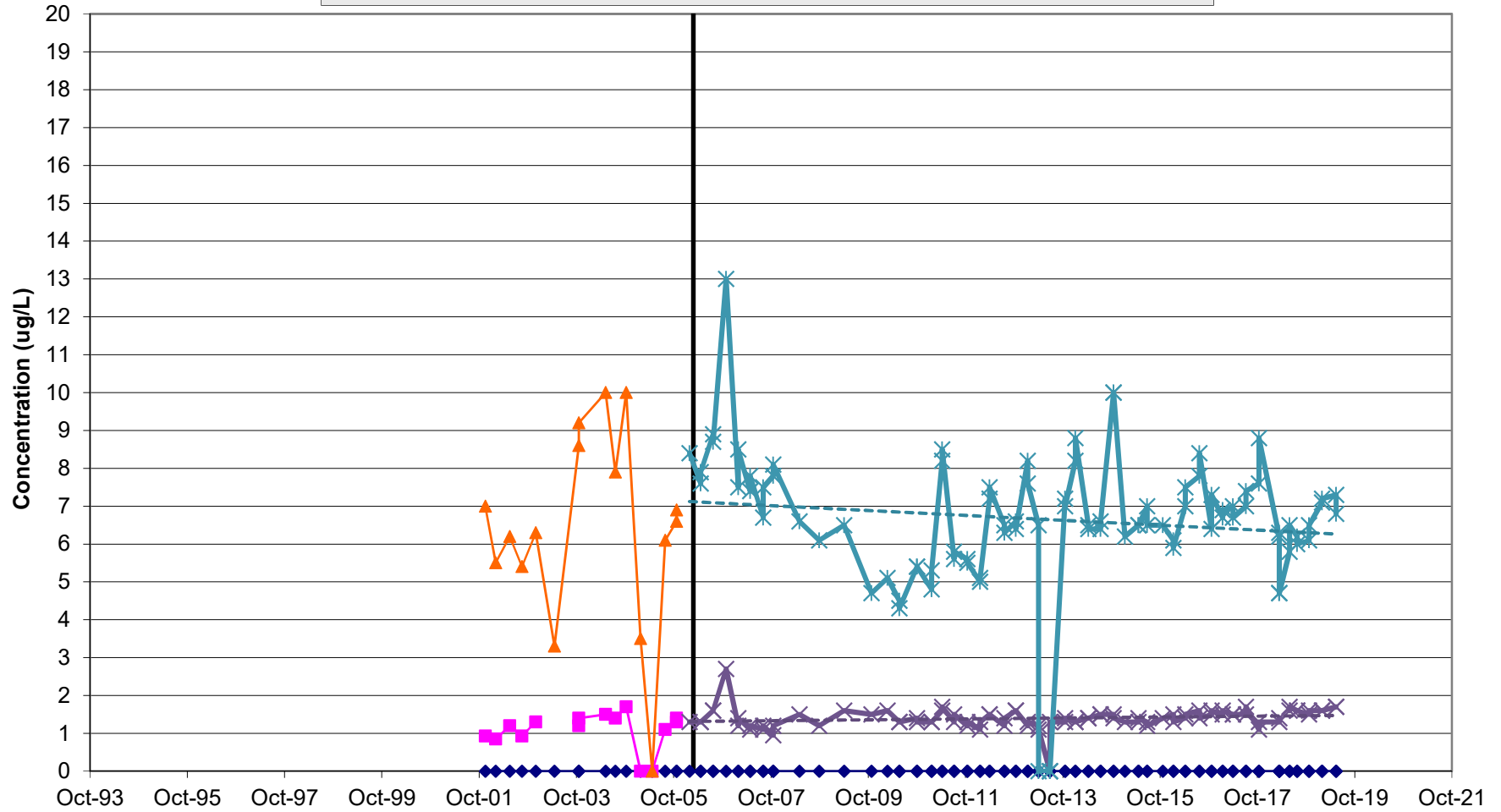
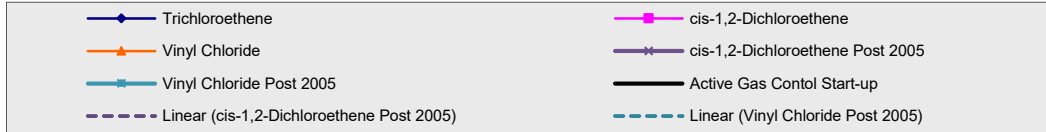
P-111D Layer 3 Well

900' Down gradient



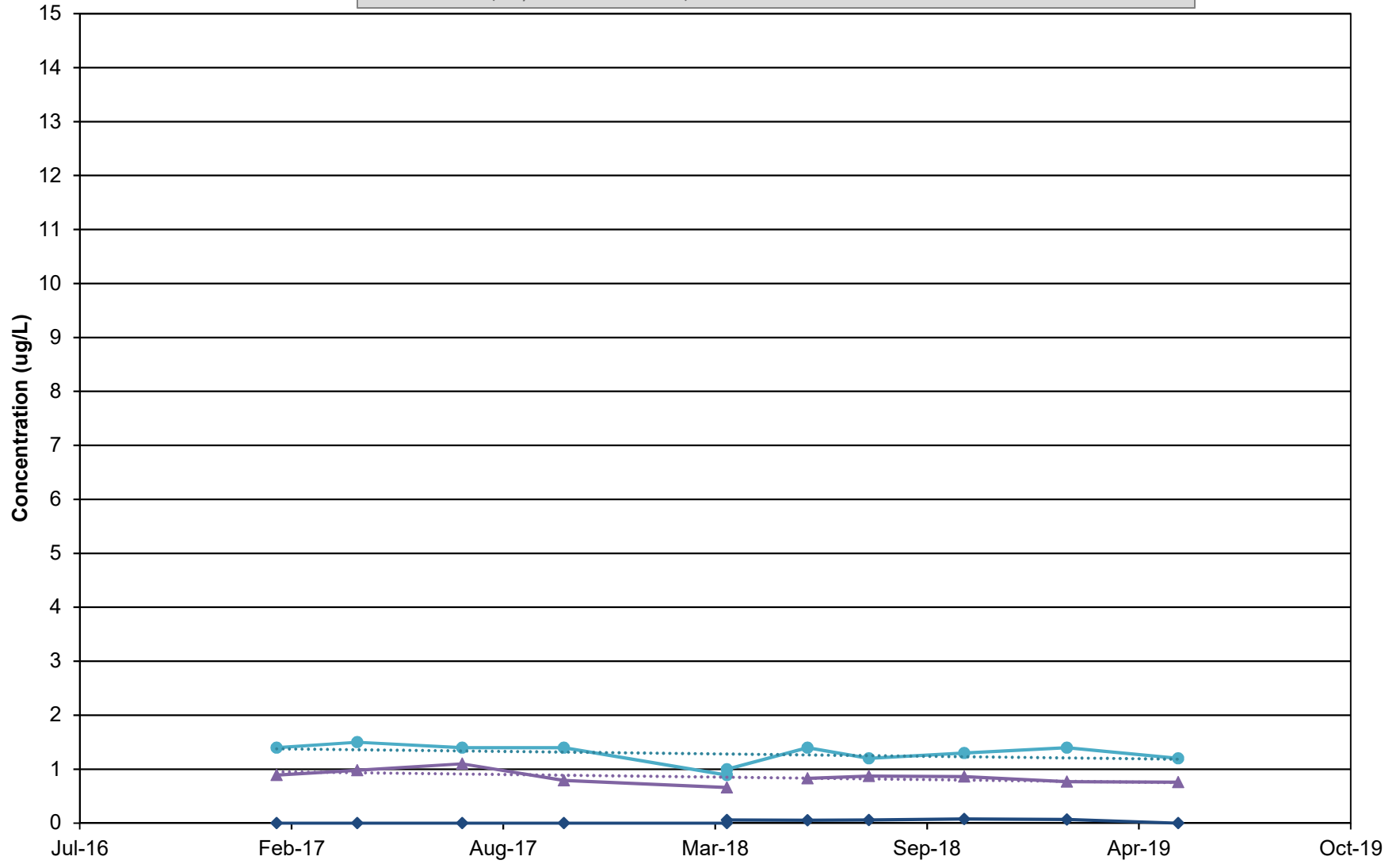
P-114 Layer 3 Well

1550' Down gradient



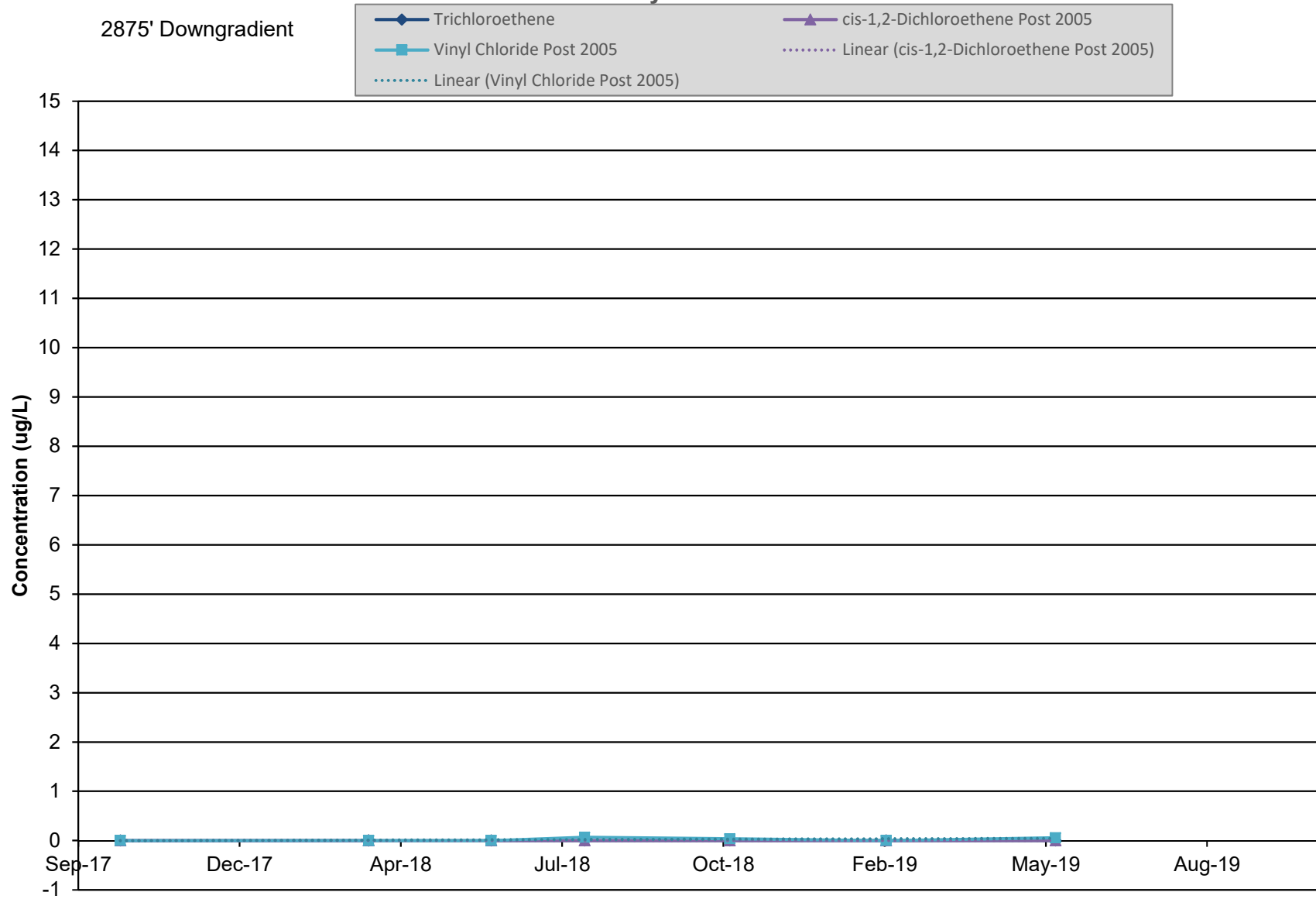
P-117 Layer 3 Well

1975' Downgradient



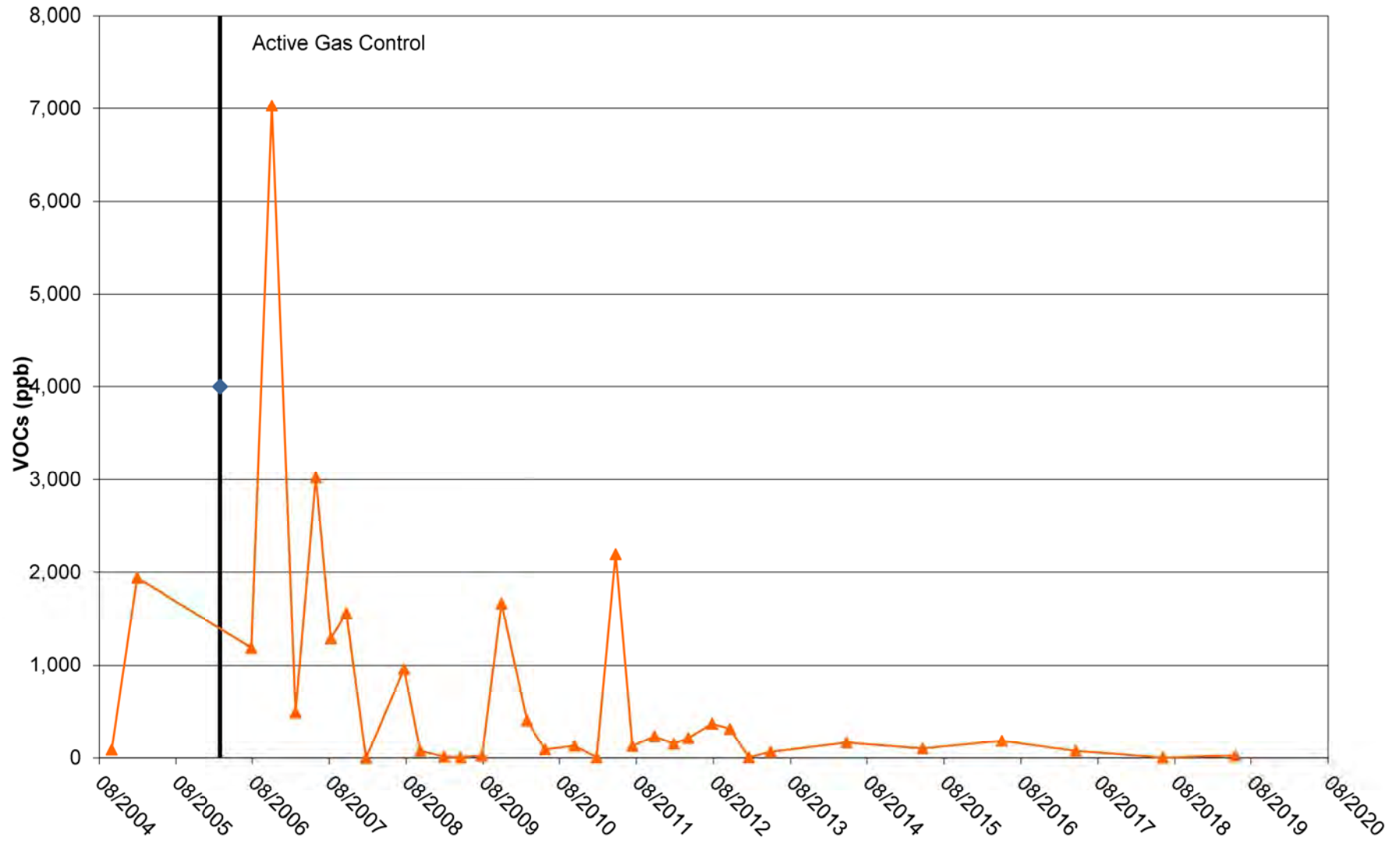
P-118
Layer 3 Well

2875' Downgradient

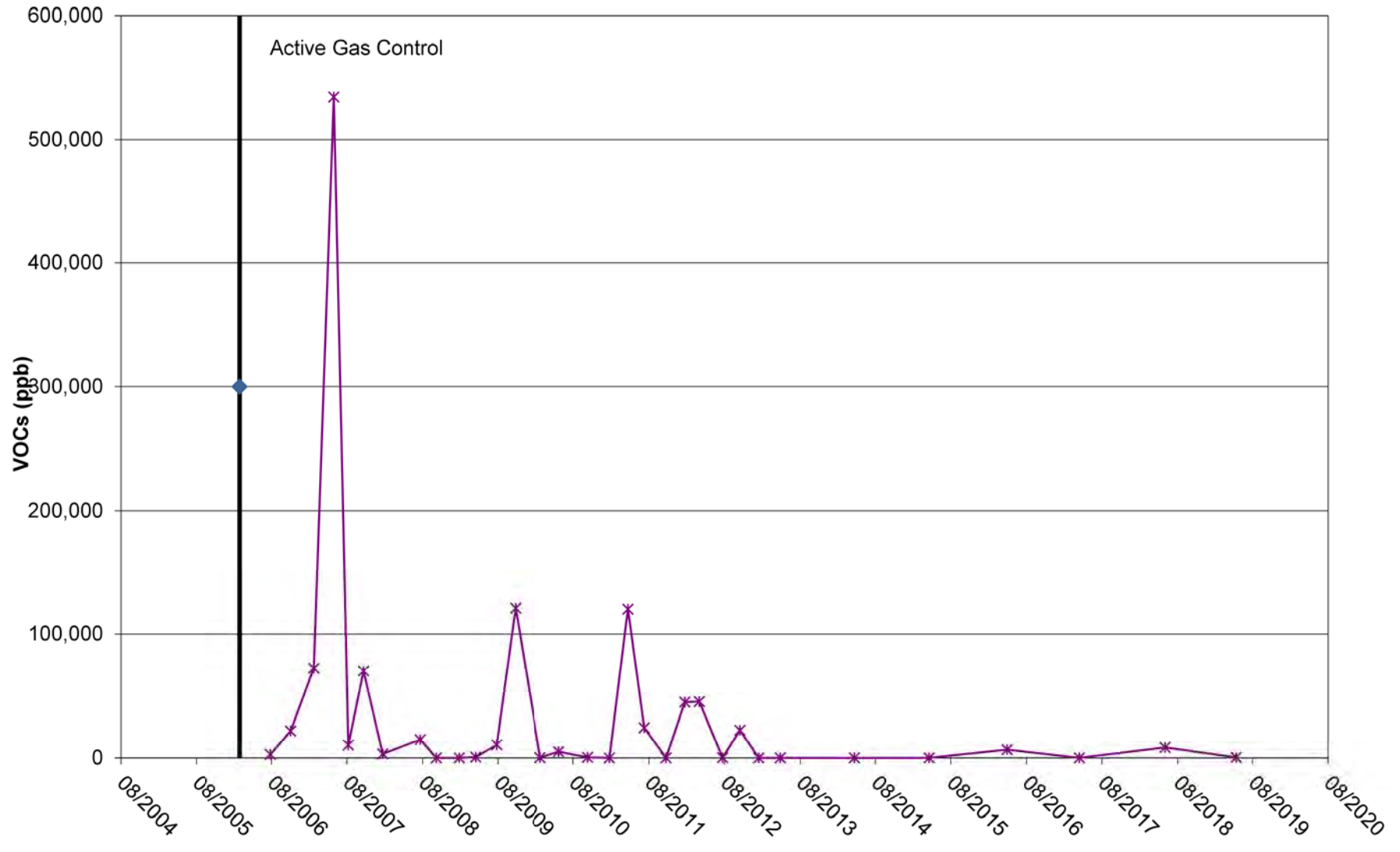


Appendix D: Vapor Concentration Trend Graphs

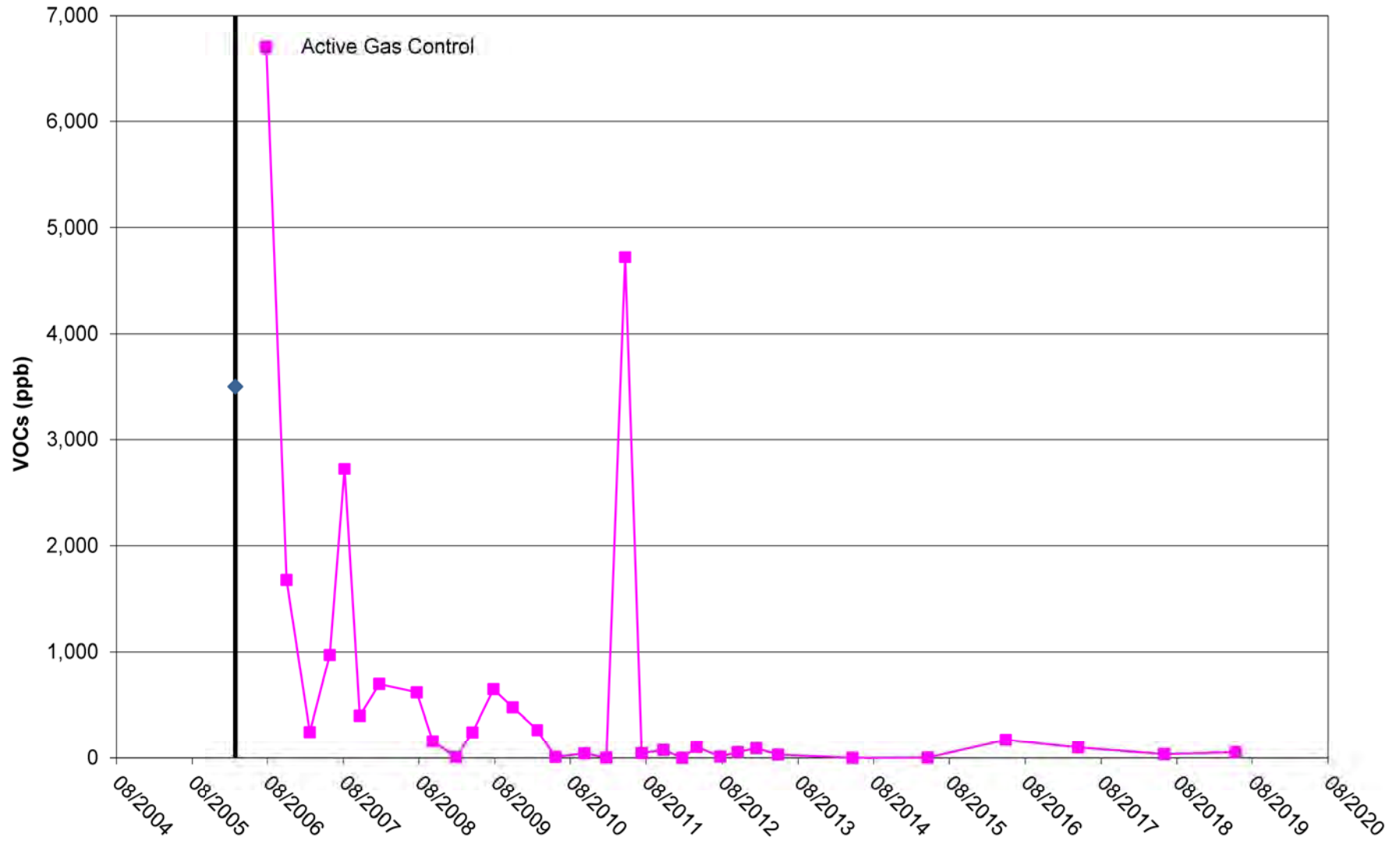
LC-1 Total Gas VOCs



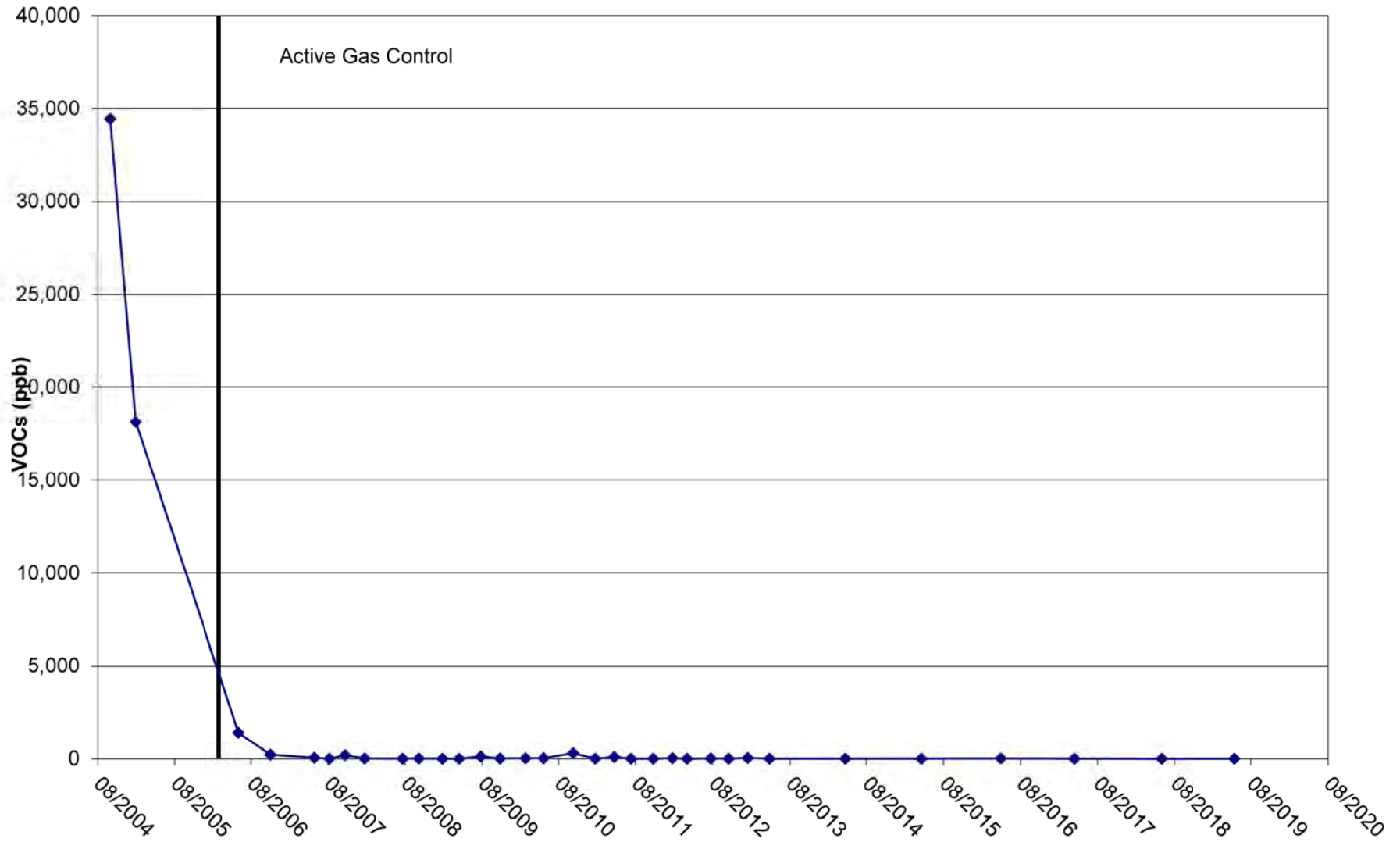
LC-3 Total Gas VOCs



GV-6 Total Gas VOCs



GP-3 Total Gas VOCs



Attachment 1
Computer Disk With Historic Monitoring Data