PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

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1413.001.05

Washington Department of Ecology
Northwest Regional Office Toxics Control Program
15700 Dayton Avenue North
Shoreline, WA 98133-9716
Attn: Ms. Tena Seeds

BY EMAIL ONLY

INTERIM ACTION WORK PLAN ADDENDUM NO. 2
AMERICAN LINEN SUPPLY CO - DEXTER AVE SITE
AGREED ORDER NO. DE 14302

Dear Ms. Seeds:

On behalf of BMR-Dexter LLC (BMRD), PES Environmental, Inc. (PES), has prepared this work plan addendum (addendum) for the American Linen Supply Co. Dexter Avenue Site (the Site), located at 700 Dexter Avenue North, Seattle, Washington. PES has been performing an interim action (IA) on behalf of BMRD at the Site, consistent with the Final Interim Action Work Plan ("IAWP")[1]. The IAWP was prepared consistent with the requirements of Sections VI.G and VII.K of Agreed Order No. DE 14302 (the AO) between the State of Washington Department of Ecology (Ecology) and BMRD.

For purposes of this addendum, the word "Site" refers to an area where contamination released at the property located at 700 Dexter Avenue North has come to be located, consistent with the definition of "site" or "facility" in the Washington Model Toxics Control Act (Chapter 173-340 of the Washington Administrative Code). The word "Property" refers to the area within the 700 Dexter Avenue North property boundary.

BACKGROUND

Identification of HMW-9IB Area of Concern

In a January 8, 2021, e-mail, Ecology made PES aware of an area with elevated concentrations of chlorinated volatile organic compounds (CVOCs) in groundwater, near monitoring well HMW-9IB on the Seattle Department of Transportation (DOT) Mercer Parcels property,[2] located south of the 700 Dexter Avenue North property. In this e-mail and in follow-up discussions, Ecology requested that the extent of the elevated CVOC groundwater concentrations in the vicinity of HMW-9IB be defined

[1] PES Environmental, Inc. 2018. *Final Interim Action Work Plan, American Linen Supply Co-Dexter Avenue Site, 700 Dexter Avenue North, Seattle, Washington.* Prepared for BMR-Dexter LLC. August.

[2] The Seattle DOT Mercer Parcels site is generally located at 800 Mercer Street and is listed in Ecology's contaminated sites database as Facility Site ID No. 27913.

and, if appropriate, treated prior to the redevelopment of the Seattle DOT Parcels by a prospective purchaser (800 Mercer, LLC). The primary CVOCs of concern are tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cDCE), and vinyl chloride (VC).

HMW-9IB is a 67-foot-deep Intermediate B Zone monitoring well installed by Hart Crowser on February 28, 2020, on the western portion of the Seattle DOT Mercer Parcels property (Figure 1). The well was installed during RI activities Hart Crowser conducted on behalf of 800 Mercer, LLC, for the Seattle DOT Mercer Parcels site. Hart Crowser sampled groundwater from HMW-9IB on March 19, 2020, and the results indicated the presence of elevated CVOCs. The information presented in the Seattle DOT Mercer Parcels Draft RI Report[3] indicates that the nature and extent of CVOCs in groundwater on the Seattle DOT Mercer Parcels property, including the area of HMW-9IB, are consistent with the distribution of the American Linen CVOC groundwater plume. PES sampled HMW-9IB on January 26, 2021, to confirm data and evaluate additional geochemical parameters. The geochemical parameter analytical results for the January 26, 2021, HMW-9IB sample indicate subsurface conditions conducive to biodegradation, with detectable ethene (137 µg/L), low dissolved oxygen (0.83 mg/L), and a negative oxidation-reduction potential (-544 millivolts).

Based on groundwater elevations in the Seattle DOT Mercer Parcels Draft RI Report and data collected during groundwater monitoring events performed for the American Linen Site, the groundwater flow directions in the HMW-9IB area are to the east-northeast in both the Intermediate A Zone and Intermediate B Zone, with a groundwater high located near the southwest corner of the parcel in the Intermediate B Zone (Figure 1). This groundwater flow direction indicates that CVOCs in Intermediate A and B groundwater are moving toward Roy Street in the HMW-9IB area.

As requested by Ecology, PES prepared a Remedial Investigation/Feasibility Study (RI/FS) Work Plan Addendum No. 2[4] that provided the scope of work for the investigation to assess the concentrations and distribution of CVOCs in groundwater near HMW-9IB.

Proposed Redevelopment of Seattle DOT Mercer Parcels

The Seattle DOT Mercer Parcels are to be redeveloped with two 13-story towers - one on the western half, and one on the eastern half of the Property - separated above grade by the vacated Eighth Avenue North right-of-way. The two separate towers will share a below-grade parking garage that will underlie the vast majority of the Seattle DOT Mercer Parcels. Four levels of below-grade parking are planned, resulting in a uniform lowest finished floor having a design elevation of approximately 10.75 feet (approximately 23 to 48 feet below the variable ground surface elevation of the Seattle DOT Mercer Parcels). The foundation for the buildings and garage will consist of a 3-foot to 8-foot thick concrete mat, resulting in a bottom of excavation ranging from elevation 2.75 to 7.75 feet. Shoring will be used to conduct the excavation, and will consist of a combination of soldier piles with tie-backs (western portion of the excavation), and secant piles (eastern portion of the excavation). Dewatering will also be required throughout the excavation and construction process. Redevelopment is expected to begin in mid-2022 and is expected to be completed by late 2024.

[3] Hart Crowser. 2021. *Draft 3, Remedial Investigation, Seattle DOT Mercer Parcels, 800 Mercer Street, Seattle, Washington.* Prepared for 800 Mercer, LLC. January 15.

[4] PES Environmental, Inc. 2021. *Remedial Investigation/Feasibility Study Work Plan Addendum No. 2, American Linen Supply Co-Dexter Avenue Site, 700 Dexter Avenue North, Seattle, Washington.* Prepared for BMR-Dexter LLC. March 30.

OBJECTIVES

The primary objectives of this IAWP addendum are to:

- Summarize the results of the focused investigation of the area near monitoring well HMW-9IB on the Seattle DOT Mercer Parcels property; and,

- Describe the scope of work for an IA in the HMW-9IB area to address the elevated concentrations of CVOCs in groundwater before redevelopment activities on the Seattle DOT Mercer Parcels eliminate access to this area.

The proposed IA is similar to the approach included in the Final IAWP, which included injection of emulsified vegetable oil (EVO) and other amendments (e.g., sodium lactate, pH buffers, and bioaugmentation cultures) into groundwater.

HMW-9IB INVESTIGATION AND RESULTS

The HMW-9IB investigation was conducted consistent with RI/FS Work Plan Addendum No. 2 and included the following tasks:

- Installing seven monitoring wells in the Intermediate A and B Zones on the Seattle DOT Mercer Parcels property around HMW-9IB between May 13 and June 2, 2021;

- Collecting soil samples during well installation and analyzing them for CVOCs;

- Developing the seven new monitoring wells and sampling these wells in June and August, 2021, concurrently with the May and August 2021 Site-wide groundwater monitoring event. Groundwater samples were also collected from HMW-9IB, HMW-9IA, and HMW-20IA; and,

- Conducting groundwater level monitoring in the seven new wells as part of Site-wide groundwater level monitoring events on June 7 and August 16, 2021.

Well Installation and Sampling Activities

Well Installation and Development. The seven new wells, one Intermediate A Zone well (MW-344) and six Intermediate B Zone wells (MW-345 through MW-350), were installed during this investigation at the locations specified in RI/FS Work Plan Addendum No. 2, except for monitoring wells MW-344, MW-345, and MW-350, which were moved northwest of their intended locations to avoid the surveyed location of the Mercer Street Tunnel (Figure 1). MW-344 (Intermediate A zone well) was screened at a depth of 39.4 to 49.4 feet below ground surface (bgs; elevations 13.6 to 3.6 feet North American Vertical Datum of 1988 (NAVD88)), at a similar elevation to both MW-146 and HMW-20IA (both screened from elevation 12.8 to 2.8 feet NAVD88), and MW-345 through MW-350 (all Intermediate B wells) were screened at similar depths to HMW-9IB (approximately 57 to 67 feet bgs; elevations -2 to -12 feet NAVD88). Table 1 shows the well completion details, and Attachment A provides the boring logs for the well installed during this investigation.

Cascade Drilling developed the monitoring wells no sooner than 48 hours after installation. Development consisted of repeated surging of the entire screen length with a bailer or surge block, and pumping from the well until the color of the discharge water did not change with additional development. Any volume of potable water added during drilling was removed, and (if possible) the turbidity of the purge water was under 100 nephelometric turbidity units (NTUs).

Bush, Roed & Hitchings, Inc. (BRH) surveyed the horizontal and vertical locations of the monitoring wells. The surveying was conducted to provide accurate location and elevation data for wells and samples, ensure accuracy of the Site figures, allow calculation of groundwater elevations, and aid in evaluation of the data. BRH conducted the survey in May 2021. The horizontal datum was the North American Datum of 1983/1991 (NAD 83/91), and the vertical datum was NAVD 88. Survey results are summarized in Table 1.

Soil Sampling. Consistent with RI/FS Work Plan Addendum No. 2, soil samples were collected continuously with a sonic drill rig for lithologic logging, and were field screened for indications of contamination. Soil samples were collected every 5 feet starting below the proposed base of the redevelopment excavation, at approximately 48 to 53 feet bgs (i.e., below an elevation of 5 feet) and analyzed for volatile organic compounds (VOCs) by the U.S. Environmental Protection Agency (EPA) Method 8260. Additional soil samples were collected from wells MW-345 through MW-350, above elevation 5 feet based on field screening results to characterize soil for waste disposal.

Groundwater Monitoring and Water Level Measurement. Groundwater samples were collected from each new monitoring well and existing wells concurrently, with the second and third quarter Site-wide monitoring events in June and August, respectively. Samples were analyzed for VOCs by EPA Method 8260 and geochemical parameters (alkalinity, chloride, total iron, total manganese, nitrate, dissolved gases, sulfate, and total organic carbon[5]).

Investigation-Derived Waste

Investigation activities that generated waste included monitoring well installation, well development, and groundwater sampling. Wastes generated consisted of soil, water, and wet soil. All waste generated from the RI activities was profiled, transported, and disposed of by Waste Management.

Soil. Drilling and installing monitoring wells generated PCE-contaminated soil that was placed in 55-gallon steel drums or large-volume, flexible-fabric bags (super sacks). All of this soil was profiled and disposed of as hazardous waste. Approximately 8.25 tons of hazardous waste soil was transported for disposal at the Chemical Waste Management of the Northwest facility in Arlington, Oregon.

Water. Water generated during the RI addendum activities included CVOC-contaminated water from drilling monitoring wells, monitoring well development, and quarterly groundwater sampling. All water was stored in intermediate bulk containers (275-gallon totes) or 55-gallon drums, profiled, and disposed of as hazardous waste. Approximately 300 gallons of water were generated and disposed of as hazardous waste at the Chemical Waste Management of the Northwest facility in Arlington, Oregon.

[5] The samples were analyzed by Methods 2320B (alkalinity), 9056A (chloride, nitrate, and sulfate), 9060A (total organic carbon), 6020A (iron and manganese), and RSK-175 (dissolved gases).

Investigation Results

The discussion of the investigation results below focuses on the nature and extent of CVOCs in the vicinity of HMW-9IB as defining the area where an interim action may be necessary to treat elevated COVCs. Other data collected during the investigation (e.g., the presence of petroleum-related compounds not related to the American Linen CVOC plume) are discussed in the draft RI report for the Site, currently being prepared by PES. Soil analytical results are summarized in Table 3, and groundwater analytical results are summarized in Tables 4 and 5. Attachment B provides the laboratory reports, and data validation reports are included in Attachment C.

Geology. Fill was encountered in the immediate subsurface under the Seattle DOT Mercer Parcels property. The fill was encountered to a depth of approximately 15 to 20 feet, corresponding to elevations of approximately 38 to 33 feet. The fill deposits are composed of inconsistent mixes of sand with silt, silty sand, and sandy silt, with varying amounts of gravel. Beneath the fill, dense to very dense, fines-rich silty sand, sandy silt, and silt with varying amounts of gravel were encountered to the maximum depth explored of approximately 69.4 feet (approximate elevation -14.6 feet). Occasional interbeds of sand with silt were encountered in these deposits.

The lithologies encountered beneath the Seattle DOT Mercer Parcels are consistent with anthropogenic fill, ice contact deposits, and glacial till observed in the Shallow Zone, Intermediate A and Intermediate B Zones beneath the Property. Attachment A provides the boring logs and well completion diagrams for the wells installed during the HMW-9IB investigation.

Hydrogeology. Depth to groundwater was measured in ten wells (MW-344 through MW-350 and HMW-9IA, HMW-9IB, and HMW-20IA) concurrently with Site-wide water level measurement events on June 7 and August 16, 2021. Groundwater elevations ranged from 25.99 to 26.51 feet in the Intermediate A Zone, and from 22.72 to 25.56 feet in the Intermediate B Zone during the June 2021 monitoring event. Groundwater elevations ranged from 25.65 to 26.18 feet in the Intermediate A Zone, and from 22.05 to 25.13 feet in the Intermediate B Zone during the August 2021 monitoring event. Depth to groundwater and groundwater elevations are summarized in Table 2. In the HMW-9IB area, groundwater flow in the Intermediate B Zone was away from a groundwater high at the southwest corner of the Seattle DOT Mercer Parcels property, to the north to northeast in the northern portion of the area and to the southeast in the southeast portion of the area. Approximate groundwater flow directions in the Intermediate B Zone in the vicinity of HMW-9IB are shown on Figure 1.

Soil Sampling Results. The Site-related CVOC constituents detected above their screening levels in soil[6] were PCE, TCE, cDCE, 1,1-DCE, and VC. PCE was detected above the screening level in samples from all of the sampled borings except for MW-350, located upgradient of HMW-9IB. For all soil samples where TCE, cDCE, 1,1-DCE, and/or VC were detected above the screening level, PCE was also detected above the screening level, and the concentrations of these other CVOCs were significantly lower than the PCE concentrations. PCE concentrations in soil are shown on Figure 2, and PCE soil data from other locations in the vicinity of the HMW-9IB investigation area are included for context. As shown on Figure 2, the highest concentrations of PCE (up to 8.8 milligram per kilogram (mg/kg) in MW114 collected in 2012, and up to 4.43 mg/kg in the recent investigation in MW-346) were detected in soil samples collected between approximately 41 and 47 feet bgs (elevations 4.8 and 13 feet) and, as

[6] Screening levels for soil and groundwater are defined in the Final RI/FS Work Plan (PES 2019).

described below, are anticipated to be excavated during redevelopment of the Seattle DOT Mercer Parcels. Soil analytical results are summarized in Table 3.

Groundwater Monitoring Results. The Site-related constituents detected above their screening levels in groundwater were PCE, TCE, cDCE, and VC. Groundwater analytical results for the Intermediate A and Intermediate B zones in the HMW-9IB vicinity are shown on Figures 3 and 4, respectively; groundwater data from wells nearby the HMW-9IB investigation area are included for context. Groundwater analytical results for Site-related CVOCs are summarized in Table 4.

Groundwater CVOC analytical results were generally consistent between the June and August 2021 sampling events. cDCE and VC were detected at the highest concentrations during the sampling events, with PCE and TCE at significantly lower concentrations. The highest concentrations of CVOCs were detected in wells HMW-20IA and HMW-9IB in the middle of the investigation area (Figures 3 and 4). Monitoring wells MW-344, MW-345, MW-349, and MW-350 to the north, west, and southwest only had CVOC detections of VC above the screening level (benzene was also detected above the screening level in well MW-350); the concentrations of VC in these wells were two to three orders of magnitude lower than in HMW-20IA and HMW-9IB.

In the Intermediate A Zone, the maximum concentrations of PCE, TCE, cDCE, and VC in HMW-20IA were measured at 5.5 micrograms per liter (µg/L), 31.9 µg/L, 6,400 µg/L, and 5,940 µg/L, respectively (Figure 3). Concentrations of PCE, TCE, cDCE, and VC in the Intermediate A Zone well with the next highest concentrations (HMW-9IA) were measured at 0.42 µg/L, 0.916 µg/L, 136 µg/L, and 196 µg/L, respectively. In the Intermediate B Zone, the maximum concentrations of PCE, TCE, cDCE, and VC in HMW-9IB were measured at 660 µg/L, 420 µg/L, 9,100 µg/L, and 1,900 µg/L, respectively (Figure 4). Concentrations of PCE, TCE, cDCE, and VC in the Intermediate B Zone wells with the next highest concentrations were measured at 25.3 µg/L (MW-346), 8.62 µg/L (MW-348), 123 µg/L (MW-347), and 66.9 µg/L (MW-347), respectively.

Geochemical parameters (alkalinity, chloride, total iron, total manganese, nitrate, dissolved gases, sulfate, and total organic carbon) and water quality parameters (conductivity, dissolved oxygen, oxidation reduction potential, and pH) were measured to assess the evidence of anaerobic biodegradation in the CVOC plume. In general, there are qualitative indications of biodegradation in the Intermediate A Zone and Intermediate B Zone at the Seattle DOT Mercer Parcels property. PCE, TCE, and especially cDCE and VC were detected above the MRL in all wells sampled for this investigation, except MW-350 (upgradient of HMW-9IB), and ethene or ethane detected above the MRL in eight of the ten sampled wells.

To determine whether natural biodegradation is occurring in the CVOC plume and/or whether conditions are suitable for enhancing anaerobic degradation, PES screened CVOC and geochemical data from the June 2021 groundwater monitoring event (Tables 4 through 6) using the first step of the screening procedure outlined in the EPA's technical protocol for evaluating natural attenuation of CVOCs.[7] In the Intermediate A Zone, there is adequate to strong geochemical evidence of anaerobic biodegradation of CVOCs in HMW-9IA, HMW-20IA, and MW-344 (see Figure 3). In the Intermediate B Zone, there is adequate evidence of anaerobic biodegradation of CVOCs in HMW-9IB and MW-347

[7] United States Environmental Protection Agency. 1998. *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water*. September.

(located northeast of HMW-9IB). The screening results for MW-345, MW-346, MW-348, MW-349, and MW-350 indicate limited evidence of anaerobic biodegradation in those Intermediate B Zone wells (see Figure 4).

Conclusions

The HMW-9IB-focused investigation defined the area of elevated CVOCs on the Seattle DOT Mercer Parcels. Elevated concentrations of cDCE and VC (greater than 3,000 µg/L combined concentration of cDCE and VC) were detected in wells HMW-20IA in the Intermediate A Zone, and HMW-9IB in the Intermediate B Zone. In the monitoring wells surrounding HMW-20IA and HMW-9IB, including the new wells installed as part of this this investigation, the concentrations of CVOCs detected in the recent sampling were more than an order of magnitude lower and generally less than 100 µg/L. These results show that the area of elevated CVOC concentrations is limited to the interior of the Seattle DOT Mercer Parcels and that CVOCs from this area have not migrated from this area, and define the area where an interim action is appropriate (Figures 3 and 4).

The results of the HMW-9IB-focused investigation also indicate that conditions on the Seattle DOT Mercer Parcels around HMW-9IB are similar to conditions observed at the Property and along Roy Street, where previous interim actions have been implemented consistent with the Final IAWP. Specifically:

- The lithologies encountered beneath the Seattle DOT Mercer Parcels are consistent with anthropogenic fill, ice contact deposits, and glacial till observed in the Shallow Zone, Intermediate A Zone, and Intermediate B Zone beneath the Property, and appear to be a continuation of those units;
- Groundwater elevations and flow directions in the Intermediate B Zone are generally consistent with elevations and the general east to northeast groundwater flow at the Site; and,
- The range of CVOCs and geochemical parameters in the HMW-9IB area is consistent with the range of these parameters measured in Intermediate A Zone well MW-146 and Intermediate B Zone well MW-147, located along Roy Street between the Property and the Seattle DOT Mercer Parcels property (Tables 4, 5, and 6). It is important to note that the elevated CVOC concentrations in HMW-9IB appear to have become detached from the MW-146/MW-147 CVOCs based on the very low CVOC concentrations observed in MW-344 and MW-345 located midway between these two sets of monitoring wells.

PROPOSED INTERIM ACTION

Based on the information collected during the investigation activities summarized above, there is a limited area in the vicinity of monitoring well HMW-9IB where CVOC concentrations (i.e., cDCE and VC) warrant implementing an IA before the development of the Seattle DOT Mercer Parcels proceeds in mid-2022. The remainder of this section provides the rationale for the IA treatment area, the scope of work for implementing the IA, and the approach for monitoring the effectiveness of the IA.

Rationale for Interim Action Treatment Area

CVOC Concentrations. As stated above, the purpose of the IA in the HMW-9IB area is to address elevated concentrations of CVOCs in groundwater before redevelopment activities on the Seattle

DOT/Mercer Parcels limit access to this area. As shown in Figure 4, the most recent monitoring of HMW-9IB has shown elevated concentrations of cDCE and VC (2,990 µg/L and 1,030 µg/L, respectively). Results from the newly installed wells surrounding HMW-9IB (i.e., MW-345 through MW-349) show low concentrations of parent compounds (generally less than 10 ug/L), with the cDCE and VC concentrations being approximately one to two orders of magnitude lower than HMW-9IB. Based on this data, the area shown on Figure 5 is expected to encompass the portion of the Intermediate B zone, with elevated CVOC concentrations that warrant implementing an interim action.

Elevated CVOC concentrations were also detected in Intermediate A well HMW-20IA (see Figure 3). As described in more detail below, this well is screened from elevation 2.8 to 12.8 ft NAVD, and most, if not all, of this portion of the aquifer will be excavated during the proposed redevelopment of the Seattle DOT Mercer Parcels property.

Physical Constraints. There are two primary factors that will constrain where and how a potential HMW-9IB IA can be implemented: (1) the Mercer Street Tunnel, and (2) the excavation planned for the property redevelopment. The Mercer Street Tunnel runs southwest to northeast across the Seattle DOT Mercer Parcels and passes north of the HMW-9IB area. This 15-foot diameter combined sewer concrete tunnel is located between approximately 52 to 67 feet bgs (elevations +1 ft and -14 ft NAVD) and precludes installing injection wells above, or close (less than 10 ft away), to the tunnel to prevent damaging this critical infrastructure. Another impact of the tunnel's location and depth is that construction of the proposed building over the top of the tunnel will require a series of dewatering wells installed along the south edge of the tunnel to relieve the hydraulic uplift forces that would occur during development excavation. The preliminary location of these dewatering wells is shown on Figure 5, and schematically on the cross-section on Figure 6; note that the dewatering wells currently are designed with 20-foot-long screens from between approximately elevations 0 ft and -20 ft NAVD. Injecting EVO in close proximity to these dewatering wells may result in the EVO and other amendments from being withdrawn from the aquifer, thereby limiting the effectiveness of the IA. Therefore, injection wells installed as part of the IA will be installed a minimum of 20 feet away from the dewatering wells.

The other significant constraint that limits where the IA can be implemented is the excavation of the property as part of the proposed redevelopment. Based on the engineering and shoring plan and geotechnical report provided by 800 Mercer, LLC., proposed redevelopment includes three floors of subsurface parking, and the entire property (except around the East Tunnel Drop Structure located along Roy Street) will be excavated down to an approximate elevation of between 2 ft and 5 ft. Implementing an IA for the portion of the aquifer that will be excavated is not required, as this material will be removed during redevelopment construction.

Proposed Treatment Area. Based on the discussion above, the area proposed for implementing an IA is shown on Figure 5 between elevations of approximately 2 ft and -13 ft NAVD (see Figure 6). This area is bound to the north by the Mercer Street Tunnel and the low CVOC concentrations in MW-345 just to the north of the tunnel, and to the east and south by the monitoring results from MW-346 through MW-349. The proposed injection wells are far enough away from the planned dewatering wells to minimize loss of the EVO and other amendments during dewatering, and are spaced to provide good coverage of the elevated CVOC area. Soil and groundwater above the proposed treatment zone will be excavated during property redevelopment.

Interim Action Scope of Work

The IA proposed for the area shown on Figure 5 will consist of installing ten new injection wells to inject EVO and other amendments into the Intermediate B zone. Once the injections are completed, short-term monitoring will be conducted using select on-property wells before the injection and monitoring wells need to be decommissioned, prior to ARE initiating construction activities.

The scope of work to implement the IA in this area is described below.

Well Installation. The ten new injection wells will be installed at the approximate locations shown on Figure 5, with 15-foot-long well screens placed between elevations of approximately 2 ft and -13 ft NAVD. These wells will be installed using a sonic drill rig consistent with the procedures described in Sections 6.1.2 and 11.6 of the Final IAWP for installing the on-Property and perimeter injection wells. Once installed, the wells will be developed using the procedures described in the Final IAWP. Some of the locations may be adjusted based on field conditions, and further consultation with 800 Mercer, LLC., as they refine their excavation and dewatering plans, but the final distribution of wells will provide coverage for the area shown on Figure 5.

EVO Injection Approach and Procedures. When evaluating the approach for the perimeter injections, PES and In-Situ Oxidative Technologies, Inc. (ISOTEC), reviewed the chemistry results for the monitoring wells in the HMW-9IB area and based on those results, concluded that conditions are substantially similar to baseline conditions prior to initiating the perimeter injections. As a result, the proposed IA in the vicinity of HMW-9IB will be conducted generally consistent with the perimeter injections, with a few modifications and enhancements given the fact that this IA will be a single injection event with no opportunity for future injections beneath the building. ISOTEC will be conducting the injections. The primary components of the material injected in the HMW-9IB treatment area will be the same EVO product (SRS-SD®) and dehalococcoides (DHC) bioaugmentation culture used during the on-Property and perimeter injection programs.

Additional reagents including zero valent iron (ZVI), and a supplemental nutrient/additive blend will be added to increase short and long-term treatment rates. The ZVI will be added using the product SRS-Z®, which is very similar to SRS-SD® except that it contains 45 percent EVO and approximately 10 percent ZVI by weight. The ZVI used in the SRS-Z® consists of approximately 4-micron iron particles that are small enough to be suspended in the EVO and water solution. The small size allows the ZVI to spread out further from the injection point (even at low pressure) compared to larger iron particle size used in ZVI slurries. ZVI included in the SRS-Z® also has much greater surface area, which results in higher reactivity and faster reductions in CVOC concentrations. The ZVI used in the SRS-Z® is also sulfidated, which coats the ZVI particles with an iron sulfide surface coating that results in fewer side reactions with water (notably hydrolysis of water, which can passivate the iron), and increases the longevity of the ZVI. The iron sulfide coating also performs abiotic dechlorination as an additional reaction pathway, and CVOC degradation rates in column studies have been observed to be up to 50 times faster with sulfidated ZVI than equivalent non-sulfidated ZVI.

The other addition to the injection mixture for this IA is a blend of nutrients and additives that contains nitrogen, phosphorus, sulfate, and iron sold under the NutriMax label by Terra Systems (supplier of the other injection products). The nitrogen and phosphorus in the blend will support and accelerate in-situ bioremediation. The added iron and sulfate chemicals will dissolve into the diluted EVO solution and will be distributed with the injection solutions, and can migrate with groundwater. As reducing conditions are established/enhanced, reduced iron sulfide minerals will precipitate in-situ. The iron

sulfide minerals will support additional abiotic dechlorination of residual CVOCs. The nutrient package will be mixed directly into the diluted EVO solution.

The HMW-9IB injection program will consist of the following specific components:

- **Target pore volume:** The target pore volume is 9.5 percent, which is equivalent to approximately 1,060 gallons of total injected fluids for the 15-foot screens. This is slightly higher than the perimeter injections to deliver additional injectate into the subsurface;
- **EVO dosage:** Given the similar geochemical conditions and CVOC concentrations of the HMW-9IB area, and the perimeter injection area along Roy Street, the target volume of 60 percent EVO to be injected for this IA will be the same as the dosage calculated for the perimeter injections. As described in the September 16, 2020, Perimeter Injection Plan,[8] the EVO dosage was calculated to be 170 gallons of 60 percent EVO for a 15-ft screen using the Substrate Estimating Tool, developed for Environmental Security Technology Certification Program (ESTCP). Given the total injection volume, EVO will be injected at a concentration of approximately 9 percent. The EVO will be provided by blending equal volumes of two related products: (1) the SRS-SD® (60 percent EVO) used in previous injections, and (2) SRS-Z® (45 percent EVO). The mixture of these products also includes sodium lactate (4 to 5%) to provide a quick-release carbon substrate electron donor that accelerates generation of anaerobic conditions, in-situ bioremediation along with nutrients, and Vitamin B12 to enhance the activity and growth of dechlorinating bacteria;
- **ZVI Dosage:** Approximately 66 pounds of ZVI will be injected into each well through the addition of the SRS-Z®. This dosage is based on previous cleanup actions implemented by ISOTEC using the SRS-Z® product that have produced rapid and sustained dechlorination;
- **Supplemental Nutrients:** Approximately 36 pounds of NutriMax will be injected into each well. This is the manufacturer's recommended dosage for this type of application;
- **Bioaugmentation amendment:** 2 liters of the same DHC bioaugmentation culture consortium used during the on-Property and perimeter injections will be injected in each well; and,
- **pH buffer dosage:** Approximately one pound of a pH buffer, consisting of a blend of calcium and sodium bicarbonate, will be added per gallon of 60 percent EVO added (approximately 170 pounds per well).

As described above, the procedures to be used in the perimeter injections are consistent with the procedures described in the IAWP.

Well Decommissioning. To facilitate the beginning of shoring installation and excavation work on the Seattle DOT Mercer Parcels, all monitoring wells installed as part of the HMW-9IB investigation, including the ten new injection wells, will be decommissioned following the short-term monitoring activities described below. The wells will be decommissioned by a licensed well driller consistent with Ecology well regulations (WAC-173-160-460).

[8] PES Environmental, Inc. 2020. *Perimeter Injection Plan, American Linen Supply Co – Dexter Avenue Site, Agreed Order No. DE 14302.* September 16.

Investigation-Derived Waste. Residual soil and groundwater generated during well installation will be stored in drums or totes on the Seattle DOT Mercer Parcels. These wastes will be profiled, then transported to appropriate facilities for disposal.

Post-Interim Action Groundwater Monitoring

Monitoring of the IA will be conducted in two phases: (1) short-term monitoring of wells in and around the injection area until construction activities require decommissioning of the existing on-property wells, and (2) long-term monitoring of wells located around the perimeter of the Seattle DOT Mercer Parcels.

Short-Term Monitoring. Monitoring of B-zone monitoring wells in and around the injection area will be conducted to document the distribution of injection fluids, confirm that the injections create conditions conducive to reductive dechlorination, and track the changes in contaminant concentrations over time. Short-term monitoring will be conducted using monitoring wells HMW-9IB, MW-346, MW-347, MW-348, and MW-349 and will consist of the following events:

- Baseline monitoring conducted after installation of the injection wells but prior to injections; and,
- Post-injection monitoring conducted quarterly starting 2 to 3 weeks after the injections.

Groundwater samples collected during this short-term monitoring will be analyzed for VOCs and a limited suite of geochemical parameters including TOC, dissolved gasses, sulfate, nitrate, and chloride. In addition, during the baseline and final monitoring event, samples will be collected from wells HMW-9IB and MW-347 for analysis of DHC bacteria to document pre- and post-injection bacterial populations responsible for the reductive dechlorination of the CVOCs.

Based on the preliminary schedule, the monitoring wells will be installed in the last half of March, with the injections occurring in mid to late April. Assuming this schedule, the baseline sampling would occur in early April and post-injection monitoring would begin in May concurrent with routine quarterly monitoring for the Site, with subsequent events in August and November, if possible, based on the construction schedule for the SDOT Mercer Parcels. The frequency of the post-injection monitoring will be re-evaluated in May to optimize data collection based on the construction schedule at that time.

Long-Term Monitoring. Groundwater monitoring will continue in existing wells around the perimeter of the Seattle DOT Mercer Parcels on the schedule established in the Ecology-approved Revised Groundwater and Soil Vapor Monitoring Plan[9]. The groundwater monitoring includes the following wells in the Intermediate A and B Zones:

- **Intermediate A Zone Wells:** MW-146, BB-8, MW119, MW-325, and MW-315; and,
- **Intermediate B Zone Wells:** MW-147, MW-148, and MW-316.

Consistent with the approved groundwater monitoring plan, all of these wells will be monitored quarterly, except for MW-315 and MW-316 located on the south-central edge of the Seattle DOT Mercer Parcels, which will be monitored on a semi-annual basis (CVOCs have not been detected in any of the six sampling events for these two wells).

[9] PES. 2020. *Revised Groundwater and Soil Vapor Monitoring Plan, American Linen Supply Co – Dexter Avenue Site, Agreed Order No. DE 14302.* October 27.

This well network will effectively monitor groundwater downgradient of the HMW-9IB IA treatment area. Current monitoring on and off of the Seattle DOT Mercer Parcels indicates that the CVOCs in the HMW-9IB hot spot area are not migrating off the property, and the chances of this migration in the future will be significantly reduced through implementation of the IA. Monitoring the wells listed above will provide sufficient data to assess the effectiveness of HMW-9IB IA, and of CVOC trends around the Seattle DOT Mercer Parcels property.

Monitoring will continue in these wells until the construction activities on the Seattle DOT Mercer Parcels restrict access to the wells for monitoring. Following completion of construction activities in late 2024, PES and Ecology will assess the current conditions and develop a comprehensive monitoring strategy.

Anticipated Schedule

Obtaining access to the property has already been initiated with Seattle DOT (current property owner) and 800 Mercer, LLC. (future property owner), with scheduling of utility clearance, drilling, and injections to follow. Assuming timely receipt of a property access agreement and driller availability, PES anticipates completing the injection well installation within 45 days after Ecology approval of this addendum, with injections occurring within 30 days after completing the well installation and development. These activities must be completed in advance of 800 Mercer, LLC., initiating construction activities, currently anticipated to begin in mid-2022. Therefore, Ecology approval is needed by February 25, 2022. PES will notify Ecology when the drilling schedule has been finalized, and will also notify Ecology if the overall schedule changes for any reason.

We appreciate your review of the scope of work. Please let us know if you have any questions or need additional information prior to your review.

Sincerely,

PES ENVIRONMENTAL, INC.

Chris DeBoer, LG
Project Geologist

Brian L. O'Neal, P.E.
Principal Engineer

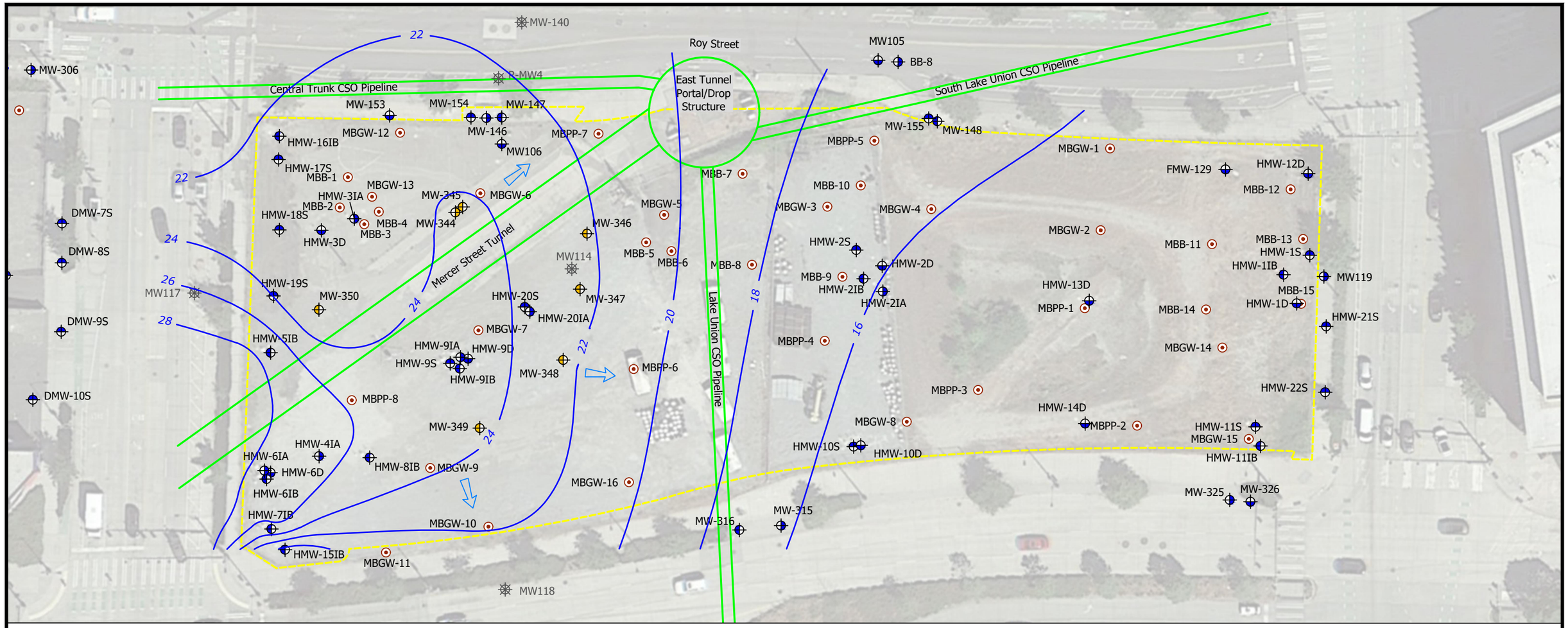
Attachments: Figures 1 through 6

Tables 1 through 6

Attachment A – Boring Logs
Attachment B – Laboratory Reports
Attachment C – Data Validation Reports

cc: John Moshy, BMRD

ILLUSTRATIONS



Explanation

- Approximate SDOT Mercer Parcels Property Boundary
- Sanitary Sewer Pipe
- MW-310 — Shallow Zone Monitoring Well
- MW116 — Intermediate A Zone Monitoring Well
- W-MW-02 — Intermediate B Zone Monitoring Well
- MW105 — Deep Zone Monitoring Well
- MW-140 — Decommissioned Monitoring Well
- MW-344 — 2021 Intermediate A Monitoring Well
- MW-345 — 2021 Intermediate B Monitoring Well
- Soil Boring
- 28 — Intermediate B Zone Groundwater Contour August 16, 2021
- Generalized Groundwater Flow Direction

Note:
All investigation locations on the Seattle DOT Mercer Parcels shown for clarity.

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Engineering & Environmental Services
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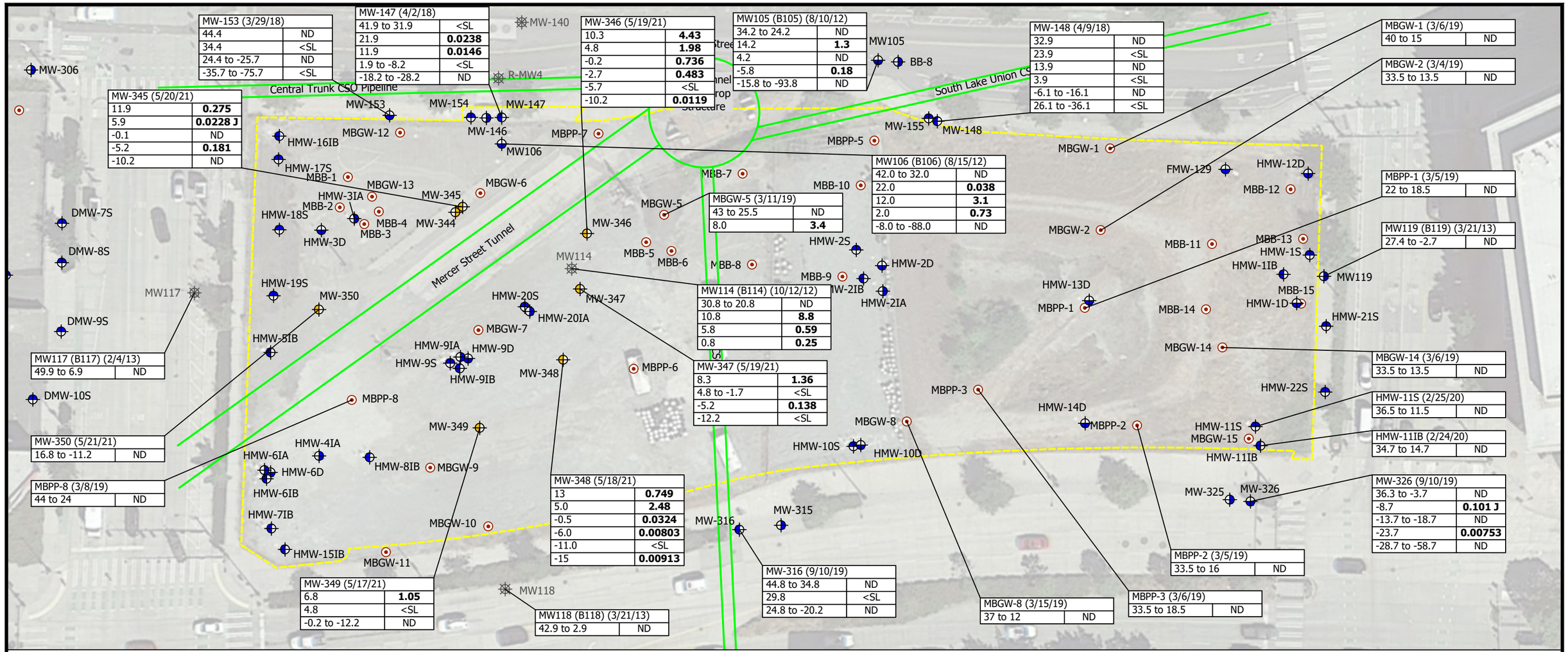
Seattle DOT Mercer Parcels Monitoring Well Locations
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

FIGURE 1

1413.001.02.501.09	14130010250109_IAWP_1-6	BLO	12/21
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

- Approximate SDOT Mercer Parcels Property Boundary
- Sanitary Sewer Pipe
- MW-310 — Shallow Zone Monitoring Well
- MW116 — Intermediate A Zone Monitoring Well
- W-MW-02 — Intermediate B Zone Monitoring Well
- MW105 — Deep Zone Monitoring Well
- MW-140 — Decommissioned Monitoring Well
- MW-344 — 2021 Intermediate A Monitoring Well
- MW-345 — 2021 Intermediate B Monitoring Well

Notes:
All investigation locations on the Seattle DOT Mercer Parcels shown for clarity
Data shown only for locations with PCE data in the Intermediate A or B zones
Results shown in milligrams per kilogram (mg/kg)
Tetrachloroethene (PCE) screening level (SL): 0.007 mg/kg
ND = PCE not detected at or above the laboratory reporting limit
J = The identification of the analyte is acceptable; the reported value is an estimate
<SL = PCE detected below the screening level of 0.007 mg/kg
PCE detections greater than or equal to the SL are shown in **bold**

Sample Location (Date)	
Elevation	PCE Concentration

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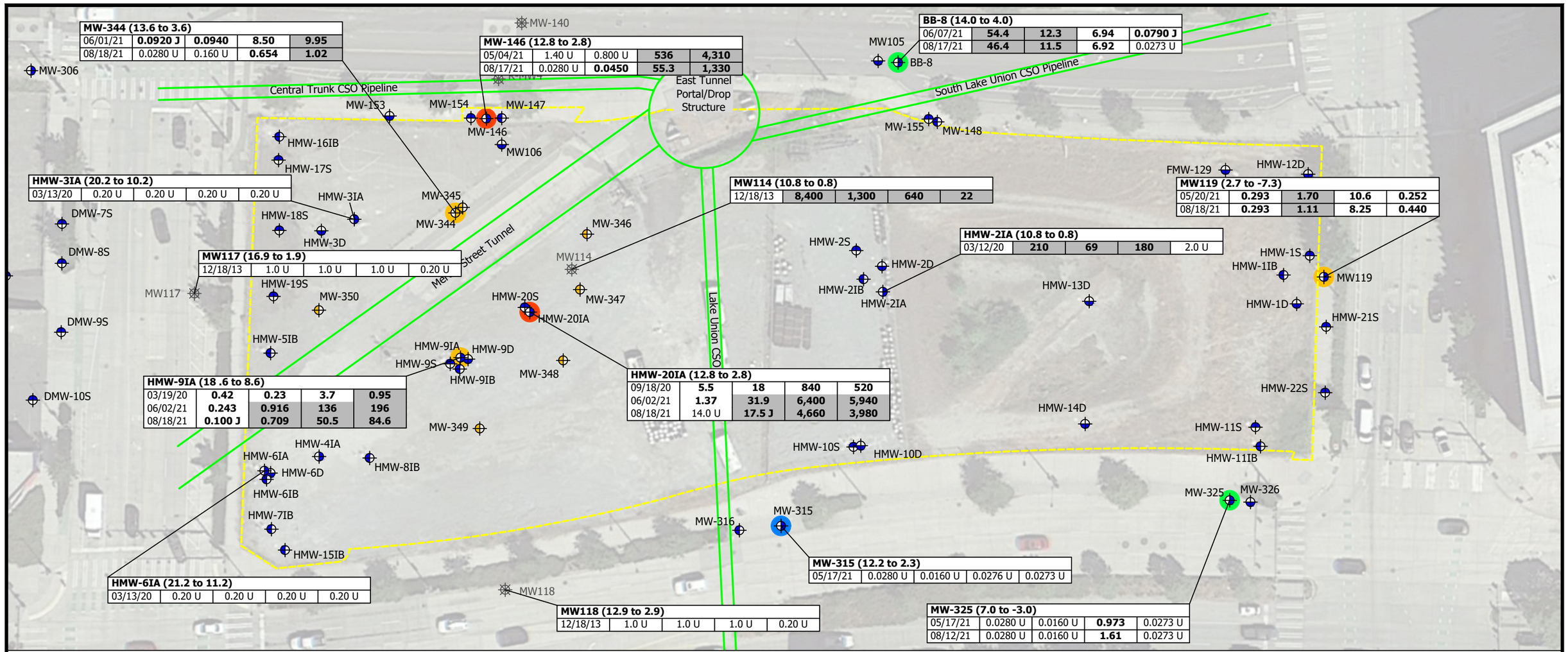
Seattle DOT Mercer Parcels Intermediate A and B Soil PCE Concentrations
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

FIGURE 2

1413.001.02.501.09	14130010250109_IAWP_1-6	BLO	12/21
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

- Approximate SDOT Mercer Parcels Property Boundary
- Sanitary Sewer Pipe
- MW-310 — Shallow Zone Monitoring Well
- MW116 — Intermediate A Zone Monitoring Well
- W-MW-02 — Intermediate B Zone Monitoring Well
- MW105 — Deep Zone Monitoring Well
- MW-140 — Decommissioned Monitoring Well
- MW-344 — 2021 Intermediate A Monitoring Well
- MW-345 — 2021 Intermediate B Monitoring Well

Notes:
All investigation locations on the Seattle DOT Mercer Parcels shown for clarity
PCE = tetrachloroethene
TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
Concentrations reported in micrograms per liter (µg/L)
U = not detected at or above the reporting limit
Concentrations detected above the reporting limit are shown in bold
Concentrations detected above the screening level are shown in bold and highlighted
J = The identification of the analyte is acceptable; the reported value is an estimate
J+ = The identification of the analyte is acceptable; the reported value is an estimate
The reported value may be biased high

MNA Evaluation

- Inadequate evidence for anaerobic biodegredation of CVOCs
- Limited evidence for anaerobic biodegredation of CVOCs
- Adequate evidence for anaerobic biodegredation of CVOCs
- Strong evidence for anaerobic biodegredation of CVOCs

	Well Location (Screen Interval Elevation)			
Analyte	PCE	TCE	cDCE	VC
GW Screening Level	2.4	0.5	16	0.5

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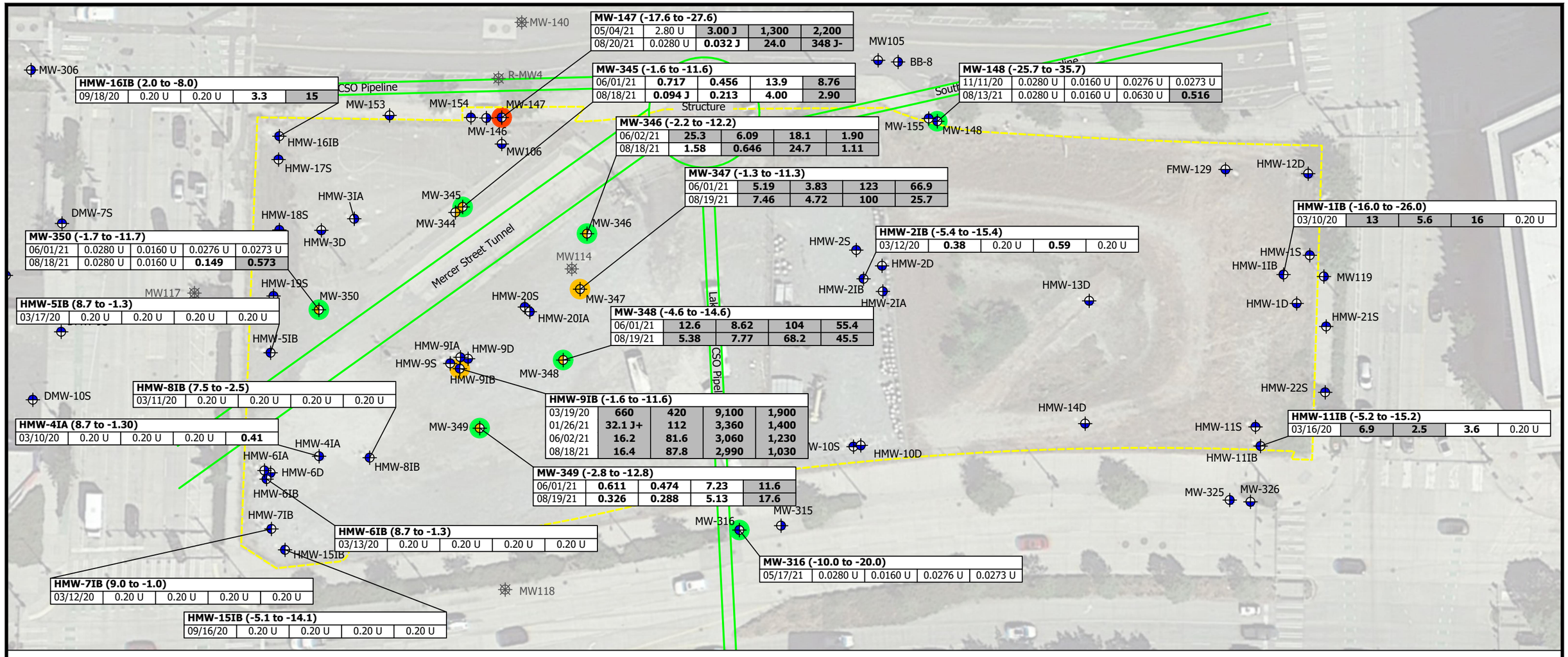
Seattle DOT Mercer Parcels Intermediate A Groundwater CVOC Concentrations
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

FIGURE 3

1413.001.02.501.09	14130010250109_IAWP_1-6	BLO	12/21
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

- Approximate SDOT Mercer Parcels Property Boundary
- Sanitary Sewer Pipe
- MW-310 — Shallow Zone Monitoring Well
- MW116 — Intermediate A Zone Monitoring Well
- W-MW-02 — Intermediate B Zone Monitoring Well
- MW105 — Deep Zone Monitoring Well
- MW-140 — Decommissioned Monitoring Well
- MW-344 — 2021 Intermediate A Monitoring Well
- MW-345 — 2021 Intermediate B Monitoring Well

Notes:
All investigation locations on the Seattle DOT Mercer Parcels shown for clarity
PCE = tetrachloroethene
TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
Concentrations reported in micrograms per liter (µg/L)
U = not detected at or above the reporting limit
Concentrations detected above the reporting limit are shown in bold
Concentrations detected above the screening level are shown in bold and highlighted
J = The identification of the analyte is acceptable; the reported value is an estimate
J+ = The identification of the analyte is acceptable; the reported value is an estimate
The reported value may be biased high

MNA Evaluation

- Inadequate evidence for anaerobic biodegredation of CVOCs
- Limited evidence for anaerobic biodegredation of CVOCs
- Adequate evidence for anaerobic biodegredation of CVOCs
- Strong evidence for anaerobic biodegredation of CVOCs

Well Location (Screen Interval Elevation)				
Analyte	PCE	TCE	cDCE	VC
GW Screening Level	2.4	0.5	16	0.5

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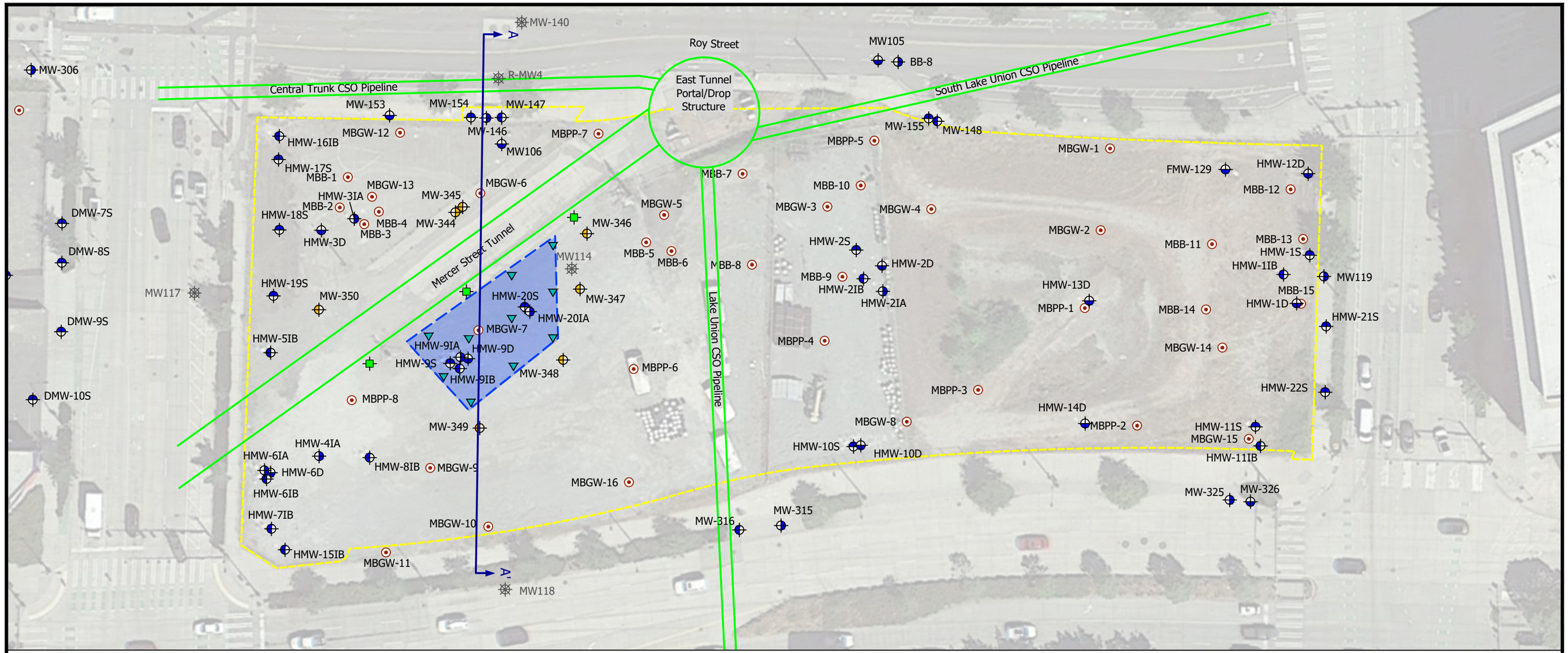
Seattle DOT Mercer Parcels Intermediate B Groundwater CVOC Concentrations
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

FIGURE 4

1413.001.02.501.09	14130010250109_IAWP_1-6	BLO	12/21
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

- Approximate SDOT Mercer Parcels Property Boundary
- Sanitary Sewer Pipe
- MW-310 — Shallow Zone Monitoring Well
- MW116 — Intermediate A Zone Monitoring Well
- W-MW-02 — Intermediate B Zone Monitoring Well
- MW105 — Deep Zone Monitoring Well
- MW-140 — Decommissioned Monitoring Well
- MW-344 — 2021 Intermediate A Monitoring Well
- MW-345 — 2021 Intermediate B Monitoring Well
- Soil Boring
- Potential Interim Action Area
- Preliminary location of dewatering wells located adjacent to Mercer Street Tunnel
- Approximate location of interim action injection well
- A A' — Geologic Cross Section Location (Arrows show direction of view) Cross-Section shown on Figure 6

Note:
All investigation locations on the Seattle DOT Mercer Parcels shown for clarity.

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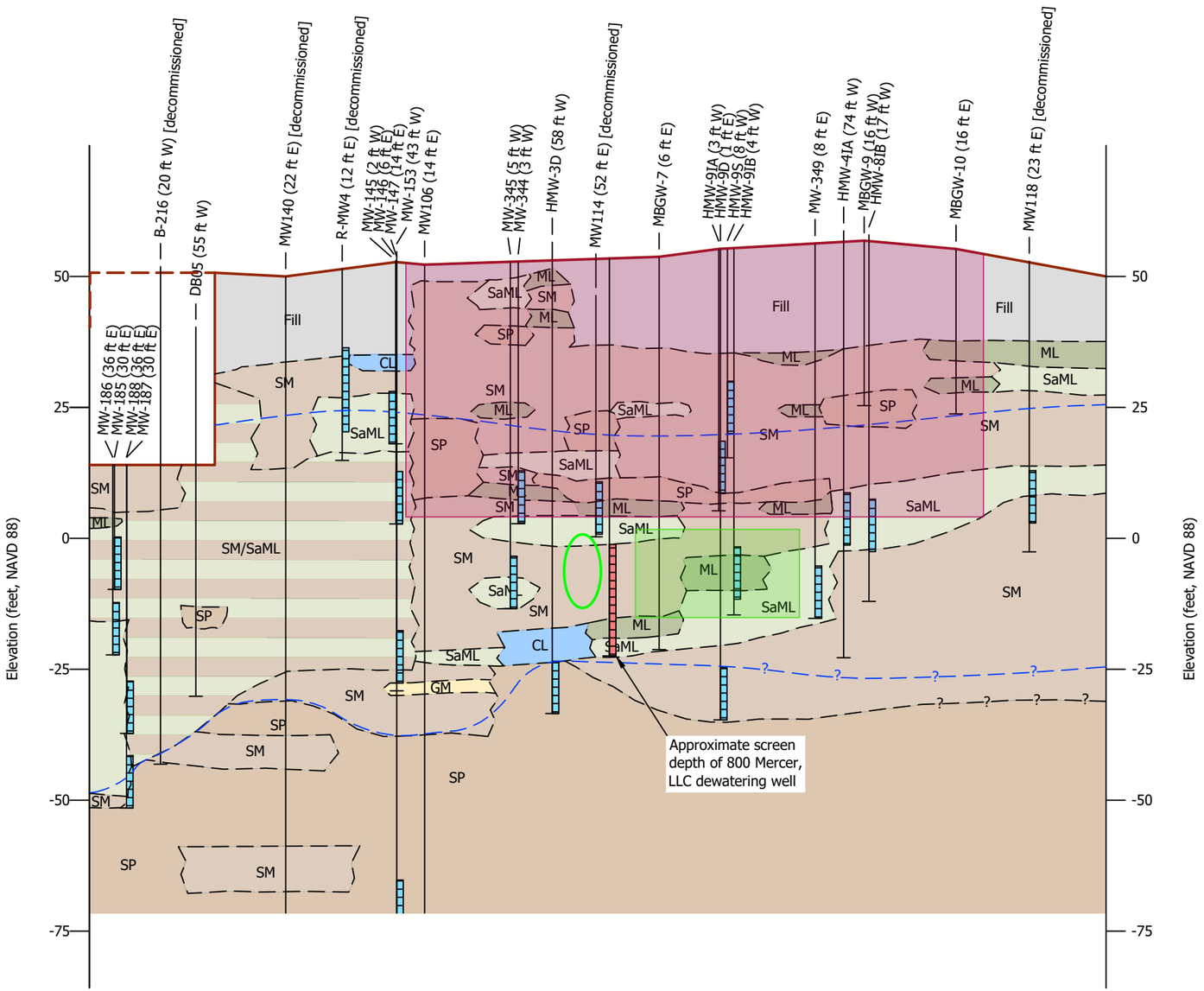
Proposed Seattle DOT Mercer Parcels Interim Action Area
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

FIGURE
5

1413.001.02.501.09	14130010250109_IAWP_1-6	BLO	12/21
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

- Approximate Ground Surface Elevation
- Geologic Contact, queried where uncertain
- MW-145 — Lithologic Boring Location with Monitoring Well Screen
- [decom] — Decommissioned Well
- (65 ft S) — Approximate distance and direction to feature from line of cross section
- Approximate Mercer Tunnel Location (Mercer Tunnel shown to scale)
- SP/SM — Interbedded Unit
- Approximate 800 Mercer, LLC Excavation
- Approximate Interim Action Treatment Zone

	Soil Description based on Unified Soil Classification System
Predominantly coarse-grained deposits	Fill
	(GP) Poorly Graded Gravel
	(SP) Poorly Graded Sand
	(GM) Silty Gravel
	(SM) Silty Sand
Predominantly fine-grained deposits	(SaML) Sandy Silt
	(ML) Silt with or without sand and gravel
	(SaCL) Sandy Clay
	(CL) Clay with or without sand and gravel
	(PT) Peat

25 — 0 — Vertical Scale in Feet

0 — 50 — Horizontal Scale in Feet

Vertical Exaggeration 2:1

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Geologic Cross Section A-A' and Section of Interim Action Treatment Area
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

FIGURE 6

1413.001.02.501.09	14130010250109_IAWP_1-6	BLO	12/21
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

TABLES

Table 1

Monitoring Well and Boring Completion Details
Focused HMW-9IB Investigation
800 Mercer Street, Seattle, Washington

Sample Location	Description of Location	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia	Drill Rig Type
							Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth Top	Depth Bottom	Elevation Top	Elevation Bottom	(in)	
Intermediate A Zone Wells																	
MW-344	Seattle DOT Mercer Parcels, NW quadrant	BNA-413	05/20/21	1,268,477.82	231,685.10	May 2021	50.0	49.7	53.02	53.06	52.70	39.4	49.4	13.6	3.6	2	Sonic
Intermediate B Zone Wells																	
MW-345	Seattle DOT Mercer Parcels, NW quadrant	BNA-412	05/20/21	1,268,481.59	231,687.90	May 2021	65.0	64.7	52.85	52.87	52.61	54.4	64.4	-1.6	-11.6	2	Sonic
MW-346	Seattle DOT Mercer Parcels, NW quadrant	BNA-411	05/19/21	1,268,545.50	231,674.21	May 2021	65.0	64.2	51.78	51.91	51.63	53.9	63.9	-2.2	-12.2	2	Sonic
MW-347	Seattle DOT Mercer Parcels, NW quadrant	BNA-410	05/19/21	1,268,541.92	231,645.66	May 2021	65.0	64.3	52.79	52.98	52.70	54.0	64.0	-1.3	-11.3	2	Sonic
MW-348	Seattle DOT Mercer Parcels, SW quadrant	BNA-409	5/17/21-5/18/21	1,268,533.26	231,609.29	May 2021	69.0	68.9	53.96	54.13	53.84	58.6	68.6	-4.6	-14.6	2	Sonic
MW-349	Seattle DOT Mercer Parcels, SW quadrant	BNA-408	05/17/21	1,268,490.33	231,574.32	May 2021	69.0	68.9	55.84	55.92	55.58	58.6	68.6	-2.8	-12.8	2	Sonic
MW-350	Seattle DOT Mercer Parcels, NW quadrant	BNA-414	05/21/21	1,268,407.70	231,635.14	May 2021	70.0	69.7	57.77	57.90	57.55	59.4	69.4	-1.7	-11.7	2	Sonic

Notes:
Wells were surveyed by Bush, Roed & Hitchings, Inc. (BR&H) of Seattle, Washington, relative to NAVD 88 (vertical) and NAD83/91, Washington State Plane Coordinate System, North Zone (horizontal)
TOC = top of PVC casing
ft = feet; bgs = below ground surface; Dia = diameter; in = inches
Sonic = rotosonic or rotary vibratory drilling.

Table 2

Summary of Groundwater Elevations
Focused HMW-9IB Investigation
800 Mercer Street, Seattle, Washington

Sample Location	Property	Screen Interval (ft bgs)	Screen Interval Elevation (feet)	Top of Casing Elevation (feet)	Date	Measured By	Depth to Water	Groundwater Elevation [a]
Intermediate A Zone								
HMW-9IA	Seattle DOT Mercer Parcels	36.7 to 46.7	18.6 to 8.6	58.21	03/19/20	HC	34.18	24.03
					05/11/20	HC	34.48	23.73
					07/13/20	HC	34.95	23.26
					11/16/20	PES	32.91	25.30
					02/01/21	HC	30.98	27.23
					06/07/21	PES	32.22	25.99
					08/16/21	PES	32.56	25.65
HMW-20IA	Seattle DOT Mercer Parcels	41.0 to 51.0	12.8 to 2.8	56.47	11/16/20	PES	30.74	25.73
					06/07/21	PES	30.43	26.04
					06/07/21	PES	30.43	26.04
MW-344	Seattle DOT Mercer Parcels	39.4 to 49.4	13.6 to 3.6	52.70	06/07/21	PES	26.19	26.51
					08/16/21	PES	26.52	26.18
Intermediate B Zone								
HMW-9IB	Seattle DOT Mercer Parcels	57.0 to 67.0	-1.6 to -11.6	57.89	03/19/20	HC	36.54	21.35
					05/11/20	HC	37.15	20.74
					07/13/20	HC	37.60	20.29
					11/16/20	PES	32.81	25.08
					02/01/21	HC	29.99	27.90
					06/07/21	PES	32.33	25.56
					08/16/21	PES	32.66	25.23
MW-345	Seattle DOT Mercer Parcels	54.4 to 64.4	-1.6 to -11.6	52.61	06/07/21	PES	28.30	24.31
					08/16/21	PES	28.42	24.19
MW-346	Seattle DOT Mercer Parcels	53.9 to 63.9	-2.2 to -12.2	51.63	06/07/21	PES	28.91	22.72
					08/16/21	PES	29.30	22.33
MW-347	Seattle DOT Mercer Parcels	54.0 to 64.0	-1.3 to -11.3	52.70	06/07/21	PES	29.97	22.73
					08/16/21	PES	30.19	22.51
MW-348	Seattle DOT Mercer Parcels	58.6 to 68.6	-4.6 to -14.6	53.84	06/07/21	PES	31.11	22.73
					08/16/21	PES	31.44	22.40
MW-349	Seattle DOT Mercer Parcels	58.6 to 68.6	-2.8 to -12.8	55.58	06/07/21	PES	31.02	24.56
					08/16/21	PES	31.25	24.33
MW-350	Seattle DOT Mercer Parcels	59.4 to 69.4	-1.7 to -11.7	57.55	06/07/21	PES	35.53	22.02
					08/16/21	PES	35.50	22.05

Notes:
Top of casings relative to the North American Vertical Datum 1988.
Depth to water measured in feet below the top of casing.
[a] Calculated by subtracting the depth to groundwater from the casing elevation.
ft bgs = Feet below ground surface
PES = PES Environmental, Inc.
HC = Hart Crowser

Table 3

Soil VOCs
Focused HMW-9IB Investigation
800 Mercer Street, Seattle, Washington

Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Elevation (feet NAVD 88)	Analytical Results in milligrams per kilogram					
					1,1-DCE	cDCE	PCE	tDCE	TCE	VC
Saturated Zone Screening Level					**0.003**	**0.005**	**0.003**	**0.032**	**0.001**	**0.003**
MW-345	MW-345-41	5/20/2021	41	11.85	0.000747 U	**0.984**	**0.275**	**0.00746**	**0.0273**	**0.189**
	MW-345-47	5/20/2021	47	5.85	0.000712 U	**0.0973**	**0.0228 J**	0.00122 U	**0.00257**	**0.181**
	MW-2023-47	5/20/2021	47 (dup)	5.85	0.000877 U	**0.122**	**0.00622 J**	0.00150 U	**0.00105 J**	**0.136**
	MW-345-53	5/20/2021	53	-0.15	0.000709 U	0.000859 U	0.00105 U	0.00122 U	0.000683 U	0.00136 U
	MW-345-58	5/20/2021	58	-5.15	0.000888 U	**0.108**	**0.181**	0.00152 U	**0.0175**	**0.0184**
	MW-345-63	5/20/2021	63	-10.15	0.000813 U	0.000985 U	0.00120 U	0.00140 U	0.000784 U	0.00156 U
MW-346	MW-346-41.5	5/19/2021	41.5	10.28	**0.00121 J**	**0.661**	**4.43**	**0.00216 J**	**0.415**	**0.124**
	MW-346-47	5/19/2021	47	4.78	**0.00111 J**	**0.148**	**1.98**	0.00122 U	**0.228**	**0.0149**
	MW-346-52	5/19/2021	52	-0.22	0.000708 U	**0.0516**	**0.736**	0.00121 U	**0.0726**	**0.00481**
	MW-346-54.5	5/19/2021	54.5	-2.72	0.00293 U	**0.0694**	**0.483**	0.00504 U	**0.0531**	0.00563 U
	MW-346-57.5	5/19/2021	57.5	-5.72	0.000708 U	0.000858 U	**0.00118 J**	0.00122 U	0.000682 U	0.00136 U
	MW-346-62	5/19/2021	62	-10.22	0.000775 U	**0.00167 J**	**0.0119**	0.00133 U	**0.00165**	0.00148 U
MW-347	MW-347-44.5	5/19/2021	44.5	8.29	**0.00558**	**0.954**	**1.36**	**0.00465 J**	**0.699 J**	**0.466 J**
	MW-2022-44.5	5/19/2021	44.5 (dup)	8.29	**0.00525**	**0.753**	**1.08**	**0.00442 J**	**0.509 J**	**0.321 J**
	MW-347-48	5/19/2021	48	4.79	0.000708 U	0.000858 U	**0.00171 J**	0.00122 U	0.000682 U	0.00136 U
	MW-347-54.5	5/19/2021	54.5	-1.71	0.000730 U	**0.00202 J**	**0.00129 J**	0.00125 U	**0.000733 J**	0.00140 U
	MW-347-58	5/19/2021	58	-5.21	0.000721 U	**0.0781**	**0.138**	0.00124 U	**0.0215**	**0.0150**
	MW-347-65	5/19/2021	65	-12.21	0.000770 U	**0.00183 J**	**0.00224 J**	0.00132 U	0.000742 U	0.00147 U
MW-348	MW-348-41	5/18/2021	41	12.96	**0.0173**	**6.55**	**0.749**	**0.0186**	**0.249**	**0.569**
	MW-348-49	5/18/2021	49	4.96	**0.00394**	**0.472**	**2.48**	0.00134 U	**0.421**	**0.0668**
	MW-348-54.5	5/18/2021	54.5	-0.54	0.000701 U	**0.0299**	**0.0324**	0.00120 U	**0.00636**	**0.00172 J**
	MW-348-60	5/18/2021	60	-6.04	0.000698 U	**0.0190**	**0.00803**	0.00120 U	**0.00294**	0.00134 U
	MW-348-65	5/18/2021	65	-11.04	0.000757 U	**0.00259 J**	**0.00157 J**	0.00130 U	**0.000740 J**	0.00145 U
	MW-348-69	5/18/2021	69	-15.04	0.000741 U	**0.0198**	**0.00913**	0.00127 U	**0.00300**	0.00142 U
MW-349	MW-349-49	5/17/2021	49	6.84	0.000776 U	**0.572**	**1.05**	0.00133 U	**0.209**	**0.0752**
	MW-349-51	5/17/2021	51	4.84	0.000723 U	**0.0675**	**0.00546**	0.00124 U	**0.00274**	**0.00802**
	MW-349-56	5/17/2021	56	-0.16	0.000721 U	**0.00200 J**	0.00107 U	0.00124 U	0.000695 U	0.00138 U
	MW-349-61	5/17/2021	61	-5.16	0.000738 U	0.000894 U	0.00109 U	0.00127 U	0.000712 U	0.00141 U
	MW-349-66	5/17/2021	66	-10.16	0.000739 U	0.000895 U	0.00109 U	0.00127 U	0.000712 U	0.00141 U
	MW-349-68	5/17/2021	68	-12.16	0.000760 U	**0.00213 J**	0.00112 U	0.00130 U	0.000733 U	0.00146 U
MW-350	MW-350-41	5/21/2021	41	16.77	0.000782 U	0.000947 U	0.00116 U	0.00134 U	0.000754 U	0.00150 U
	MW-350-53	5/21/2021	53	4.77	0.000715 U	0.000866 U	0.00106 U	0.00123 U	0.000689 U	0.00137 U
	MW-350-58	5/21/2021	58	-0.23	0.000709 U	0.000859 U	0.00105 U	0.00122 U	0.000684 U	0.00136 U
	MW-350-64.5	5/21/2021	64.5	-6.73	0.000744 U	0.000902 U	0.00110 U	0.00128 U	0.000717 U	0.00143 U
	MW-350-69	5/21/2021	69	-11.23	0.000769 U	0.000931 U	0.00114 U	0.00132 U	0.000741 U	0.00147 U

Notes:
VOCs analyzed by EPA Method 8260
Detected results shown in **bold**.
Detections above the screening level in the vadose zone are shown in **bold** and **highlighted gray**.
U = Not detected at a concentration exceeding laboratory reporting limit
J = The reported concentration is an estimate based on detectable results between the method detection limit and reporting limit, laboratory QA/QC, or data validation review.

Abbreviations:
1,1-DCE = 1,1-dichloroethene
cDCE = cis-1,2-dichloroethene
PCE = perchloroethylene (tetrachloroethene)
TCE = trichloroethene
tDCE = trans-1,2-dichloroethene
VC = vinyl chloride
VOCs = Volaitle organic compounds
(dup) = Field duplicate sample
NAVD = North American Vertical Datum 1988
ft bgs = Feet below ground surface

Table 4

Groundwater CVOCs in the Intermediate Zone
Focused HMW-9IB Investigation
800 Mercer Street, Seattle, Washington

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter) 1,1-DCE	PCE	TCE	cDCE	tDCE	VC
				Screening Level	7	2.4	1	16	100	0.2
Intermediate A Zone										
HMW-9IA	Seattle DOT Mercer Parcels	03/19/20	HC	–	0.20 U	**0.42**	**0.23**	**3.7**	0.20 U	**0.95**
(18.6 to 8.6)	SW quadrant	06/02/21	PES	Bladder	**0.265**	**0.243**	**0.916**	**136**	**0.197 J**	**196**
		08/18/21	PES	Bladder	**0.100 J**	**0.100 J**	**0.709**	**50.5**	**0.0840 J**	**84.6**
HMW-20IA	Seattle DOT Mercer Parcels	09/18/20	HC	–	**2.5**	**5.5**	**18**	**840**	**2.5**	**520**
(12.8 to 2.8)	NW quadrant	06/02/21	PES	Bladder	**10.9**	**1.37**	**31.9**	**6,400**	**17.1**	**5,940**
		08/18/21	PES	Bladder	10.0 U	14.0 U	**17.5 J**	**4,660**	28.6 U	**3,980**
MW-146	Roy St ROW, S side	05/04/21	PES	Bladder	1.00 U	1.40 U	0.800 U	**536**	**6.30 J**	**4,310**
(12.8 to 2.8)		08/17/21	PES	Bladder	0.0200 U	0.0280 U	**0.0450**	**55.3**	**2.51**	**1,330**
MW-344	Seattle DOT Mercer Parcels	06/01/21	PES	Bladder	0.0200 U	**0.0920 J**	**0.0940**	**8.50**	0.0572 U	**9.95**
(13.6 to 3.6)	NW quadrant	08/18/21	PES	Bladder	0.0200 U	0.0280 U	0.0160 U	**0.654**	0.0572 U	**1.02**
Intermediate B Zone										
HMW-9IB	Seattle DOT Mercer Parcels	03/19/20	HC	–	**13**	**660**	**420**	**9,100**	**8.3**	**1,900**
(-1.6 to -11.6)	SW quadrant	01/26/21	PES	Bladder	**6.03 J+**	**32.1 J+**	**112**	**3,360**	**4.24 J+**	**1,400**
		06/02/21	PES	Bladder	**5.30 J**	**16.2**	**81.6**	**3,060**	**6.30 J**	**1,230**
		08/18/21	PES	Bladder	**4.70 J**	**16.4**	**87.8**	**2,990**	**6.20 J**	**1,030**
MW-147	Roy St ROW, S side	05/04/21	PES	Bladder	2.00 U	2.80 U	**3.00 J**	**1,300**	5.72 U	**2,200**
(-17.6 to -27.6)		08/20/21	PES	Bladder	**0.0970 J**	0.0280 U	**0.0320 J**	**24.0**	**1.73**	**348 J-**
MW-345	Seattle DOT Mercer Parcels	06/01/21	PES	Bladder	0.0200 U	**0.717**	**0.456**	**13.9**	**0.0600 J**	**8.76**
(-1.6 to -11.6)	NW quadrant	08/18/21	PES	Bladder	0.0200 U	**0.0940 J**	**0.213**	**4.00**	0.0572 U	**2.90**
MW-346	Seattle DOT Mercer Parcels	06/02/21	PES	Bladder	**0.0590 J**	**25.3**	**6.09**	**18.1**	0.0572 U	**1.90**
(duplicate)	NW quadrant	06/02/21	PES	Bladder	**0.0610 J**	**25.1**	**6.16**	**18.3**	0.0572 U	**1.93**
(-2.2 to -12.2)		08/18/21	PES	Bladder	**0.0750 J**	**1.58**	**0.646**	**24.7**	**0.0880 J**	**1.11**
MW-347	Seattle DOT Mercer Parcels	06/01/21	PES	Bladder	**0.147**	**5.19**	**3.83**	**123**	**0.291**	**66.9**
(-1.3 to -11.3)	NW quadrant	08/19/21	PES	Bladder	**0.262**	**7.46**	**4.72**	**100**	**0.807**	**25.7**
MW-348	Seattle DOT Mercer Parcels	06/01/21	PES	Bladder	**1.29**	**12.6**	**8.62**	**104**	**0.107 J**	**55.4**
(-4.6 to -14.6)	SW quadrant	08/19/21	PES	Bladder	**1.10**	**5.38**	**7.77**	**68.2**	0.0572 U	**45.5**
(duplicate)		08/19/21	PES	Bladder	**1.05**	**5.41**	**8.30**	**66.6**	**0.0660 J**	**45.7**
MW-349	Seattle DOT Mercer Parcels	06/01/21	PES	Bladder	0.0200 U	**0.611**	**0.474**	**7.23**	0.0572 U	**11.6**
(-2.8 to -12.8)	SW quadrant	08/19/21	PES	Bladder	0.0200 U	**0.326**	**0.288**	**5.13**	0.0572 U	**17.6**
MW-350	Seattle DOT Mercer Parcels	06/01/21	PES	Bladder	0.0200 U	0.0280 U	0.0160 U	0.0276 U	0.0572 U	0.0273 U
(-1.7 to -11.7)	NW quadrant	08/18/21	PES	Bladder	0.0200 U	0.0280 U	0.0160 U	**0.149**	0.0572 U	**0.573**

Notes:
VOCs analyzed by EPA Method 8260.
– = Not available
U = Not detected at a concentration exceeding laboratory reporting limit
J = The reported concentration is an estimate based on detectable results between the method detection limit and reporting limit, laboratory QA/QC, or data validation review.
J+ = The result is an estimated quanitity, but the result may be biased high.
J- = The result is an estimated quanitity, but the result may be biased low.
Well screen elevations indicated below Sample Location in parentheses in feet using North American Vertical Datum 1998.

Abbreviations:
1,1-DCE = 1,1-dichloroethene
cDCE = cis-1,2-dichloroethene
HC = Hart Crowser
PCE = perchloroethylene (tetrachloroethene)
ROW = right-of-way
TCE = trichloroethene
tDCE = trans-1,2-dichloroethene
VC = vinyl chloride
CVOCs = chlorinated volatile organic compounds

Table 5

Groundwater Monitored Natural Attenuation Parameters in the Intermediate Zone
Focused HMW-9IB Investigation
800 Mercer Street, Seattle, Washington

Sample Location	Property	Sample Date	Sampled By	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
									Total	Ferrous	Ferric		Methane	Ethane	Ethene
Intermediate A Zone															
HMW-9IA	Seattle DOT	06/02/21	PES	**270**	**20.4**	0.0480 U	**38.5**	**1.25**	**1.95**	–	–	**0.772**	**316**	4.07 U	**17.7**
	Mercer Parcels	08/18/21	PES	**260**	**21.9**	0.0480 U	**41.0**	**1.06**	**2.06**	–	–	**0.765**	**153**	0.296 U	**7.66**
HMW-20IA	Seattle DOT	06/02/21	PES	**363**	**41.4**	**0.115**	**21.7**	**2.44**	**0.867**	–	–	**0.905**	**3,540**	4.07 U	**269**
	Mercer Parcels	08/18/21	PES	**335**	**37.9**	0.0480 U	**27.9**	**2.11**	**0.409**	–	–	**0.775**	**2,530**	0.296 U	**189**
MW-146	8th Ave N ROW	05/04/21	PES	–	–	–	**5.87**	**19.0**	**6.29**	–	–	**1.11**	**16,100**	0.296 U	**1,060**
		08/17/21	PES	–	–	–	**3.18 J**	**11.4**	**7.62**	–	–	**1.23**	**8,260**	**334**	**1,810**
MW-344	Seattle DOT	06/01/21	PES	**227**	**19.9**	0.0480 R	**57.8**	0.924 U	**2.06**	–	–	**0.641**	**96.5**	0.296 U	0.422 U
	Mercer Parcels	08/18/21	PES	**216**	**20.8**	0.0480 U	**60.4**	**1.20**	**33.3**	**1.4**	**31.9**	**1.16**	**43.0**	0.296 U	0.422 U
Intermediate B Zone															
HMW-9IB	Seattle DOT	01/26/21	PES	**290**	**29.8**	0.0480 U	**31.3**	**2.61**	**0.429**	**0.25**	**0.2**	**0.565**	**2,530**	0.296 U	**137**
	Mercer Parcels	06/02/21	PES	**294**	**26.0**	0.0480 U	**32.7**	**1.77**	**0.948**	–	–	**0.629**	**1,660**	4.07 U	**86.9**
		08/18/21	PES	**280**	**27.6**	0.0480 U	**32.3**	**1.87**	**0.682**	–	–	**0.578**	**2,550**	0.296 U	**122**
MW-147	Roy Street ROW	05/04/21	PES	–	–	–	**1.35 J**	**18.7**	**8.90**	–	–	**0.910**	**5,960**	0.296 U	**785**
		08/20/21	PES	–	–	–	**0.826 J**	**57.3**	**7.13**	–	–	**1.17**	**17,500**	**446**	**1,420**
MW-345	Seattle DOT	06/01/21	PES	**233**	**50.5**	**0.0647 J**	**55.7**	**2.74**	**0.961**	–	–	**0.125**	**241**	**7.26**	**9.64**
	Mercer Parcels	08/18/21	PES	**239**	**46.0**	0.0480 U	**47.9**	**1.73**	**1.15**	0.0	**1.2**	**0.174**	**251**	**2.54**	**3.81**
MW-346	Seattle DOT	06/02/21	PES	**189**	**54.1**	0.0480 U	**96.4**	**5.57**	**6.57**	–	–	**0.227**	**166**	**14.7**	**10.9 J**
(dup)	Mercer Parcels	06/02/21	PES	**193**	**54.1**	0.0480 U	**96.2**	**5.73**	**6.52**	–	–	**0.228**	**141**	**11.2 J**	**8.86 J**
		08/18/21	PES	**221**	**45.0**	0.0480 U	**48.7**	**1.83**	**3.16**	0.0	**3.2**	**0.184**	**189**	**7.36**	**5.08**
MW-347	Seattle DOT	06/01/21	PES	**226**	**60.4**	0.0480 R	**85.7**	**2.74**	**2.02**	–	–	**0.109**	**55.3**	**19.8**	**34.8**
	Mercer Parcels	08/19/21	PES	**309**	**34.7**	0.0480 U	**93.6**	**2.53**	**1.22**	0.0	**1.2**	**0.0704**	**75.9**	**29.3**	**43.4**
MW-348	Seattle DOT	06/01/21	PES	**233**	**57.3**	**0.0865 J**	**66.9**	**2.09**	**2.05**	–	–	**0.114**	**166**	0.296 U	**13.1**
	Mercer Parcels	08/19/21	PES	**237**	**39.8**	0.0480 U	**52.5**	**1.87**	**0.507 J**	0.0	**0.5**	**0.103**	**117**	0.296 U	**9.34**
(dup)		08/19/21	PES	**238**	**40.2**	0.0480 U	**53.1**	**1.88**	**0.878 J**	0.0	**0.9**	**0.107**	**126**	0.296 U	**10.2**
MW-349	Seattle DOT	06/01/21	PES	**233**	**33.7**	0.0480 R	**57.1**	**2.75**	**0.722**	–	–	**0.116**	**184**	0.296 U	0.422 U
	Mercer Parcels	08/19/21	PES	**253**	**33.3**	0.0480 U	**45.8**	**1.95**	**0.196**	0.0	**0.2**	**0.136**	**245**	0.296 U	**8.43**
MW-350	Seattle DOT	06/01/21	PES	**264**	**23.2**	0.0480 R	**59.8**	**2.52**	**2.93**	–	–	**0.191**	**145**	**16.0**	**9.41**
	Mercer Parcels	08/18/21	PES	**274**	**13.7**	0.0480 U	**21.0**	**2.19**	**1.54**	0.0	**1.5**	**0.318**	**166**	0.296 U	0.422 U

Notes:
Alkalinity analyzed by EPA Method 2320.
Anions analyzed by EPA Method 9056A.
Total Organic Carbon (TOC) analyzed by EPA Method 9060A.
Metals Analyzed by EPA Method 6020B.
Ferrous Iron measured during field sampling using a Hach field kit.
Dissolved gases analyzed by EPA Method RSK175.
Ferric iron = total iron minus ferrous iron; if total iron < ferrous iron, ferric iron is reported as 0.
U = not detected at or above the laboratory method detection limit (MDL).
Detected results shown in **bold**.
J = The identification of the analyte is acceptable; the reported value is an estimate.
R = The data is unusable. The sample result is rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
– = Not sampled or results not available.

Abbreviations:
(dup) = Field duplicate sample
ROW = right-of-way
mg$CaCO_3$/L= milligrams of calcium carbonate per liter.
mg/L = milligrams per liter.
ug/L = micrograms per liter.

Table 6

Groundwater Field Parameters in the Intermediate Zone
Focused HMW-9IB Investigation
800 Mercer Street, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mv)	Ferrous Iron (mg/L)
Intermediate A Zone									
HMW-9IA	Seattle DOT Mercer Parcels	06/02/21	7.53	596	22.2	22.0	0.26	-107	0.00
	SW quadrant	08/18/21	7.45	599	18.2	41	0.29	-111	0.25
HMW-20IA	Seattle DOT Mercer Parcels	06/02/21	7.32	757	19.4	16.5	0.45	-19	0.50
	NW quadrant	08/18/21	7.54	735	16.3	2	0.23	-94	0.0
MW-344	Seattle DOT Mercer Parcels	06/01/21	7.19	567	19.5	94	0.29	-186	1.0
	NW quadrant	08/18/21	7.28	547	19.0	–	0.21	149	1.4
MW-146	Roy St ROW, S side	05/04/21	7.12	710	17.5	53.9	0.19	-265	–
		08/17/21	6.85	696	17.1	11	0.23	-73	–
Intermediate B Zone									
HMW-9IB	SDOT Mercer Parcels	01/26/21	7.86	655	10.1	11.0	0.83	-544	–
	Seattle DOT Mercer Parcels	06/02/21	7.58	653	29.3	19.4	0.63	-132	0.5
		08/18/21	7.59	648	20.3	7	0.45	-112	–
MW-147	Roy St ROW, S side	05/04/21	7.17	727	17.7	265	0.39	-213	–
		08/20/21	6.81	985	19.6	–	0.33	155	–
MW-345	Seattle DOT Mercer Parcels	06/01/21	7.93	675	22.8	82	0.51	-291	0.0
	NW Quadrant	08/18/21	8.16	650	19.8	36	0.35	138	0.0
MW-346	Seattle DOT Mercer Parcels	06/02/21	7.93	695	17.0	189	0.54	-396	0.6
	NW Quadrant	08/18/21	8.07	632	22.8	106	0.15	146	0.0
MW-347	Seattle DOT Mercer Parcels	06/01/21	8.42	736	21.7	84	0.39	-14	0.0
	NW Quadrant	08/19/21	8.79	829	17.0	32	0.24	140	0.0
MW-348	Seattle DOT Mercer Parcels	06/01/21	7.70	692	21.1	100	0.58	29	0.0
	SW Quadrant	08/19/21	7.89	625	17.9	23	0.30	147	0.0
MW-349	Seattle DOT Mercer Parcels	06/01/21	7.53	595	19.1	37	0.28	16	0.0
	SW Quadrant	08/19/21	8.01	618	18.0	11	0.42	62	0.0
MW-350	Seattle DOT Mercer Parcels	06/01/21	7.91	652	23.2	161	0.28	-493	0.0
	NW Quadrant	08/18/21	7.93	572	21.7	67	0.28	-100	0.0

Notes:
– = not measured
µS/cm = microsiemens
(°C) = degrees Celcius
NTUs = nephelometer turbidity units
(mg/L) = Milligrams per liter
(mv) = millivolts

ATTACHMENT A
BORING LOGS

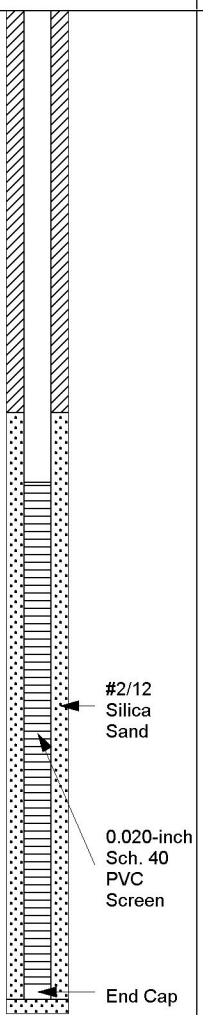
PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

LOG OF BORING: MW-344

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
Concrete Sch. 40 PVC Casing Bentonite Chips					0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30		See lithology for MW-345

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 413

Total Drilled Depth: 50 feet
Diameter of Boring: 6 inches
Drill Date: 5/20/21
Drilled By: Cascade
Drill Method: Sonic

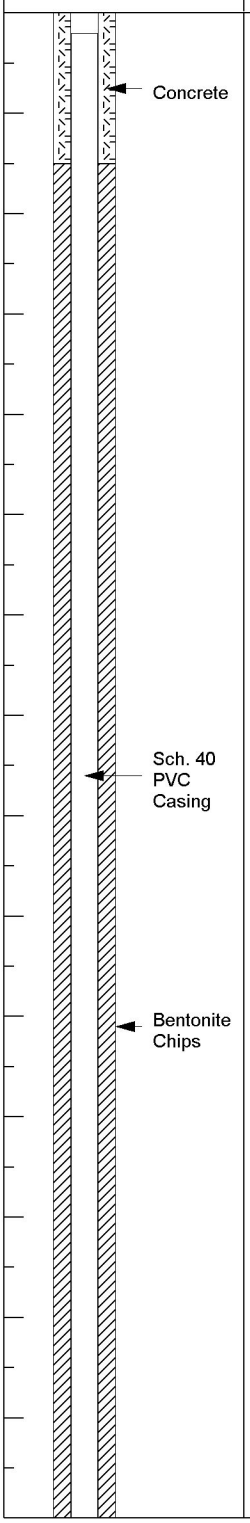
Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					32 34 36 38 40 42 44 46 48 50		
					52 54 56 58 60		Bottom of Boring at 50.0 feet Well Completion Details: Well constructed with 2-inch Schedule 40 PVC pipe and a 0.020-inch machine slotted screen with #12-20 Sand Total Well Depth: 49.7 feet Well Sump/Endcap: 49.4 to 49.7 feet Well Screen: 39.4 to 49.4 feet Well Riser: 0.3 to 39.4 feet Filter Pack: 38 to 50.0 feet Well Seal: 3 to 38 feet (hydrated bentonite chips) Surface Seal: 0 to 3 feet (concrete) Well Monument: Flush with grade 8-inch steel monument

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 413

Total Drilled Depth: 50 feet
Diameter of Boring: 6 inches
Drill Date: 5/20/21
Drilled By: Cascade
Drill Method: Sonic

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

LOG OF BORING: MW-345



PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
				0		Concrete (4 inches)
				2		BROWN SILTY SAND (SM), dry to moist, fine to medium, little fines, few fine to coarse subangular to subrounded gravel, occasional cobbles
				4		BROWN SANDY SILT (ML), dry to moist, some fine to medium sand, few fine to coarse subangular gravel, hydrocarbon-like odor
55.9						
20.6				6		Air knife & vac to 5 feet
26.8		60				at 7 feet: 4 inches of gray staining
187.1				8		GRAY SILTY SAND (SM), moist, fine to medium, little fines, few fine to coarse subangular gravel, rare cobbles, hydrocarbon-like odor
222.3				10		at 11 feet: grayish brown
27.2						
16.1		60		12		
41.1				14		
92.3						BROWNISH GRAY SAND WITH SILT (SP), moist, fine to medium, few to little fines, trace fine to coarse subangular gravel, faint hydrocarbon-like odor
11.6				16		
17.6						
5.7		60		18		SILTY SAND (SM), moist, fine to medium, little fines, fine to coarse subrounded gravel, interbedded with SANDY SILT (ML), moist, some fine sand, hydrocarbon-like odor at 19 feet: brown, faint hydrocarbon-like odor
1.4						
0.1				20		DARK BROWN SILTY SAND (SM), moist to wet, fine to medium, some fines, few coarse subangular gravel
0.0						BROWN SILTY SAND (SM), moist, fine, some fines, orange mottling
		60		22		DARK BROWN SILTY SAND (SM), moist to wet, fine to medium, some fines, few coarse subangular gravel
0.4						LIGHT BROWN SILT (ML), dry to moist, few fine sand, low plasticity, medium to rapid dilatancy
0.4				24		BROWN SILTY SAND (SM), moist, fine to medium, some fines, few fine subangular gravel
0.7						
0.2				26		at 24.5 feet: gray
0.1						BROWN SILTY SAND (SM), moist to wet, fine to medium, little fines, trace fine subrounded gravel, horizons of medium sand and silt up to 1.5 inches thick, abundant orange staining
0.1		60		28		
0.2				▽		LIGHT BROWN SILT (ML), dry to moist, few fine sand, no to low plasticity, orange staining
0.9				30		

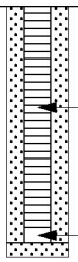
Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 412

Total Drilled Depth: 65 feet
Diameter of Boring: 6 inches
Drill Date: 5/20/21
Drilled By: Cascade
Drill Method: Sonic

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Depth (Feet)	Lithologic Description
	0.0				GRAY SILTY SAND (SM), moist, fine to medium, some fines, few fine to coarse subrounded gravel
	0.1			32	
	0.0				GRAY SILTY SAND (SM), moist, fine to medium, some fines
	0.1			34	GRAY SAND WITH SILT (SP), wet, medium, few fines
	0.1		120		GRAY SILTY SAND WITH GRAVEL (SM), moist, fine to medium, some fines, little fine to coarse subrounded gravel at 35 feet: moist to wet, trace coarse gravel
	0.1			36	
	0.0				GRAY SANDY SILT (ML), moist to wet, some fine sand, few fine to coarse subrounded gravel, nonplastic
	0.1			38	
	0.3				GRAY SILTY SAND (SM), dry to moist, fine to medium, some fines, few fine to coarse subrounded gravel, denser than above
	0.9			40	
	124.4	MW-345-41			GRAY SILTY SAND (SM), wet, fine to medium, little fines, trace fine subrounded gravel, coarser at base of unit
	81.4			42	
	35.7		50		GRAY SILT WITH SAND (ML), moist, little fine sand, trace coarse subrounded gravel, nonplastic
	49.0			44	
	9.7				GRAY SILTY SAND WITH GRAVEL (SM), moist, fine to medium, some fines, little fine to coarse subrounded gravel
	46.6	MW-345-47 MW-2023-31		46	
	3.1		56		
	4.8			48	GRAY SILTY SAND (SM), moist, fine to medium, some fines, few fine to coarse subrounded gravel, grades from unit above
	3.7			50	
	0.0				GRAY SANDY SILT (ML), dry to moist, some fine to medium sand, trace fine subrounded gravel, low plasticity
	0.1			52	GRAY SILTY SAND (SM), wet, fine to medium, some fines, trace fine to coarse subrounded gravel
	0.2	MW-345-53	54		GRAY SILTY SAND WITH GRAVEL (SM), moist, fine to medium, some fine to coarse subrounded gravel, some fines, homogeneous
	0.0			54	
	0.1				at 55 feet: little gravel
	0.0			56	
	0.0				
#2/12 Silica Sand	0.1	MW-345-58		58	
	0.0				
	0.0		120	60	

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 412

Total Drilled Depth: 65 feet
Diameter of Boring: 6 inches
Drill Date: 5/20/21
Drilled By: Cascade
Drill Method: Sonic

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
 0.020-inch Sch. 40 PVC Screen; End Cap	0.0 0.1 0.0 0.0 0.1	MW-345-63			62 64		GRAY SANDY SILT (ML), moist, some fine to coarse sand, few fine to coarse subrounded gravel
					66		Bottom of Boring at 65.0 feet Well Completion Details: Well constructed with 2-inch Schedule 40 PVC pipe and a 0.020-inch machine slotted screen with #12-20 Sand Total Well Depth: 64.7 feet Well Sump/Endcap: 64.4 to 64.7 feet Well Screen: 54.4 to 64.4 feet Well Riser: 0.3 to 54.4 feet Filter Pack: 52 to 65 feet Well Seal: 3 to 52 feet (hydrated bentonite chips) Surface Seal: 0 to 3 feet (concrete) Well Monument: Flush with grade 8-inch steel monument
					68		
					70		
					72		
					74		
					76		
					78		
					80		
					82		
					84		
					86		
					88		
					90		

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 412

Total Drilled Depth: 65 feet
Diameter of Boring: 6 inches
Drill Date: 5/20/21
Drilled By: Cascade
Drill Method: Sonic

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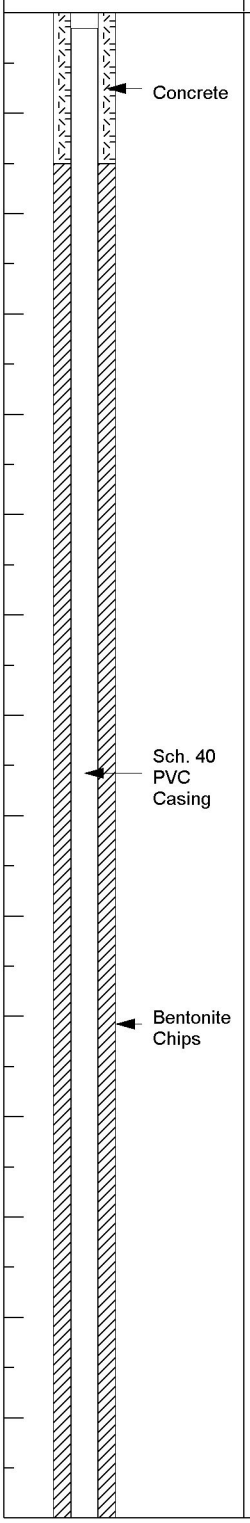
LOG OF BORING: MW-346



PID (PPM)	Sample ID	Sample Recovery (in)	Depth (Feet)	Lithologic Description
			0	
			2	
			4	
0.5			6	BROWN SILTY SAND (SM), moist, fine to medium, some fines, few fine to coarse subrounded gravel, fines percentage varies over 6- to 12-inch intervals
0.1				
0.2		60		at 6.5 feet: moist to wet, no gravel
			8	at 8 feet: moist, few gravel
0.3				
0.3			10	
0.0				
0.0			12	at 12 feet: little gravel
0.0		60		
0.0			14	at 14 feet: few gravel
0.0				
0.0			16	BROWN SANDY SILT (ML), moist, some fine to medium sand, few fine to coarse subangular to subrounded gravel
0.0				
0.0		57		
0.0			18	
0.0				at 19 feet: little gravel, occasional cobbles
0.0			20	at 20 feet: 4 inches of brown silty sand
0.0				at 21 feet: 4 inches of brown silty sand at 21.3 feet: 2 inches of brown clay
0.0			22	
0.2		53		
0.0			24	
0.0				
0.0			26	at 26 feet: moist to wet, occasional brown staining
0.0				
0.1		53	28	
0.0				
0.0			30	

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 411

Total Drilled Depth: 65 feet
Diameter of Boring: 6 inches
Drill Date: 5/19/21
Drilled By: Cascade
Drill Method: Sonic

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	0.0				30		GRAY SILTY SAND (SM), moist, fine to medium, some fines, few fine to coarse subrounded gravel
	0.0				32		
	0.0		56				
	0.0				34		
	0.0						
	0.0				36		GRAY SANDY SILT (ML), moist, some fine to medium sand, few fine to coarse subrounded gravel, frequent horizons of moist to wet brown silty sand up to 2 inches thick
	0.0						
	10.3		60		38		
	8.5						
	26.6				40		GRAY SILTY SAND (SM), moist, fine to medium, some fines, trace fine to coarse subrounded gravel
	89.9	MW-346-41.5	30				
	64.1				42		GRAY SILTY SAND WITH GRAVEL (SM), moist, fine to medium, some fine to coarse subrounded gravel, some fines
	2.5						GRAY SANDY SILT (ML), moist to wet, some fine to medium sand, few fine to coarse subrounded gravel, frequent horizons of wet fine to medium silty sand up to 2 inches thick
	0.2				44		
	1.5						
	3.8	MW-346-47	95		46		GRAY SILTY SAND (SM), moist, fine to medium, some fines, few fine to coarse subrounded gravel, homogeneous, grades from unit above
	0.0				48		
	0.0						
	0.1				50		
	0.0	MW-346-52					
	0.1				52		
	0.1						
	1.2	MW-346-54.5	110		54		GRAY SILTY SAND WITH GRAVEL (SM), moist, fine to medium, some fines, little fine to coarse subrounded gravel
	0.0				56		
	0.0	MW-346-57.5					
#2/12 Silica Sand	0.0				58		at 58.5 feet: few gravel
	0.0						
					60		

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 411

Total Drilled Depth: 65 feet
Diameter of Boring: 6 inches
Drill Date: 5/19/21
Drilled By: Cascade
Drill Method: Sonic

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
0.020-inch Sch. 40 PVC Screen	0.0	MW-346-62	48		62		GRAY SILTY SAND (SM), wet, fine to medium, little fines, few coarse subangular gravel
	0.1				64		GRAY SILTY SAND WITH GRAVEL (SM), moist, fine to medium, some fines, little fine to coarse subrounded gravel
End Cap	0.0				66		Bottom of Boring at 65.0 feet Well Completion Details: Well constructed with 2-inch Schedule 40 PVC pipe and a 0.020-inch machine slotted screen with #12-20 Sand Total Well Depth: 64.2 feet Well Sump/Endcap: 63.9 to 64.2 feet Well Screen: 53.9 to 63.9 feet Well Riser: 0.3 to 53.9 feet Filter Pack: 52 to 65 feet Well Seal: 3 to 52 feet (hydrated bentonite chips) Surface Seal: 0 to 3 feet (concrete) Well Monument: Flush with grade 8-inch steel monument
	0.0				68		
					70		
					72		
					74		
					76		
					78		
					80		
					82		
					84		
					86		
					88		
					90		

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 411

Total Drilled Depth: 65 feet
Diameter of Boring: 6 inches
Drill Date: 5/19/21
Drilled By: Cascade
Drill Method: Sonic

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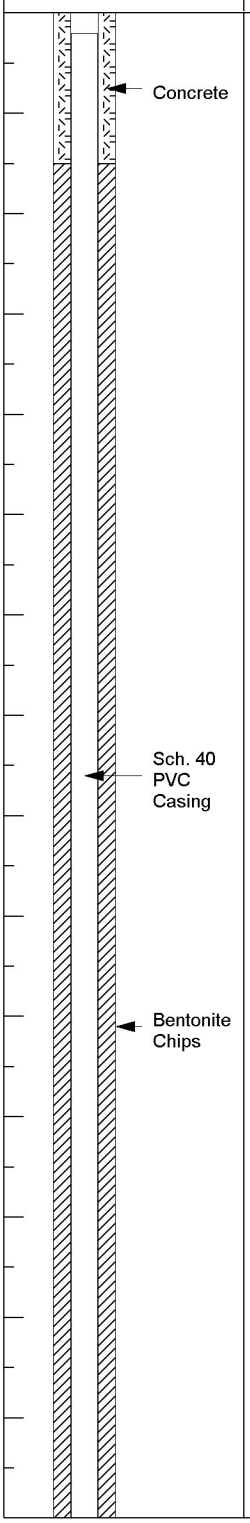
LOG OF BORING: MW-347



PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
				0		BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to medium, little fine to coarse subangular gravel, little fines (FILL)
				2		Concrete (18 inches thick)
				4		BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to medium, little fine to coarse subangular gravel, little fines (FILL)
2.1				6		Air knife & vac to 5 feet at 5 feet: asphalt debris
1.7		60		8		BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to medium, some fine to coarse subangular to subrounded gravel, little fines
1.1						
1.8				10		DARK GRAY SANDY SILT (ML), moist, little fine to medium sand, trace fine subrounded gravel, organic decomposition odor
0.8						BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to medium, little fine to coarse subrounded to subangular gravel, little fines
0.3		60		12		at 13 feet: some gravel
0.7				14		BROWN SILTY GRAVEL WITH SAND (GM), moist, fine to coarse subangular to subrounded, little fine to coarse sand, little fines
0.0						BROWN SILTY SAND (SM), moist, medium, some fines, few fine to coarse subangular to subrounded gravel
0.0						
0.1				16		
0.2		60				
1.7				18		at 18 feet: occasional horizons of medium silty sand with little fines and no gravel up to 2 inches thick, rare gray mottling
0.1						
0.5				20		at 20 feet: fine to medium
0.1						
0.0				22		
0.0		55				at 23 feet: gray, no gravel
0.1				24		at 34 feet: brown
0.1						
0.0				26		
0.0						
0.5		60		28		BROWN SILTY SAND (SM), moist to wet, medium, little fines, trace fine subrounded gravel
0.7						
0.0				30		

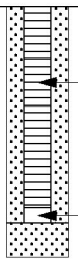
Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 410

Total Drilled Depth: 65 feet
Diameter of Boring: 6 inches
Drill Date: 5/19/21
Drilled By: Cascade
Drill Method: Sonic

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Depth (Feet)	Lithologic Description
	0.0				BROWNISH-GRAY SILTY SAND (SM), moist, fine to medium, little fines, few fine to coarse subangular to subrounded gravel
	0.0			32	at 32 feet: gray with brown mottling
	0.0				BROWN SILTY SAND (SM), moist to wet, medium, little fines, trace fine subrounded gravel
	0.0			34	GRAY SILTY SAND (SM), moist, fine to medium, some fines, few fine to coarse subrounded gravel, rare cobbles, occasional fine to medium sand lenses up to 1-inch thick
	6.1		118		
	16.0			36	GRAY SILTY SAND (SM), moist to wet, fine to medium, little fines, trace fine subrounded gravel
	21.1				GRAY SILTY SAND (SM), moist, fine to medium, some fines, few fine to coarse subrounded gravel
	28.0			38	
	36.0				
				40	
	13.8				
				42	GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, fine to coarse, little fine subrounded gravel, little fines
	21.5				GRAY SANDY SILT (ML), moist, some fine to medium sand, little fine to coarse subrounded gravel
				44	GRAY SILTY SAND (SM), moist to wet, fine to medium, little fines
	17.1	MW-347-44.5 MW-2022-	120		GRAY SANDY SILT (ML), moist, some fine to medium sand, little fine to coarse subrounded gravel
				46	GRAY SILTY SAND (SM), moist, fine to medium, some fines, few subrounded gravel, homogeneous
	1.7				
		MW-347-48		48	
				50	at 50 feet: little gravel, rare subrounded cobbles
	0.0				
	0.0			52	
	0.0		78		
		MW-347-54.5		54	
	1.1				GRAY SANDY SILT (ML), moist, some fine to medium sand, few fine to coarse subrounded gravel, rare cobbles, nonplastic
	0.2			56	
	0.2				
#2/12 Silica Sand	7.7	MW-347-58		58	GRAY SILT WITH SAND (ML), moist, little fine to medium sand
					GRAY SILTY SAND (SM), moist to wet, fine to medium, little fines
	0.1			60	GRAY SILTY SAND (SM), moist, fine to medium, some fines

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 410

Total Drilled Depth: 65 feet
Diameter of Boring: 6 inches
Drill Date: 5/19/21
Drilled By: Cascade
Drill Method: Sonic

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
 0.020-inch Sch. 40 PVC Screen End Cap	0.5 0.2 0.1 0.8	MW-347-65	93		62 64		GRAY SANDY SILT (ML), moist, some fine to medium sand
					66		Bottom of Boring at 65.0 feet Well Completion Details: Well constructed with 2-inch Schedule 40 PVC pipe and a 0.020-inch machine slotted screen with #12-20 Sand Total Well Depth: 64.3 feet Well Sump/Endcap: 64.0 to 64.3 feet Well Screen: 54.0 to 64.0 feet Well Riser: 0.3 to 54.0 feet Filter Pack: 52 to 65 feet Well Seal: 3 to 52 feet (hydrated bentonite chips) Surface Seal: 0 to 3 feet (concrete) Well Monument: Flush with grade 8-inch steel monument
					68 70 72 74 76 78 80 82 84 86 88 90		

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 410

Total Drilled Depth: 65 feet
Diameter of Boring: 6 inches
Drill Date: 5/19/21
Drilled By: Cascade
Drill Method: Sonic

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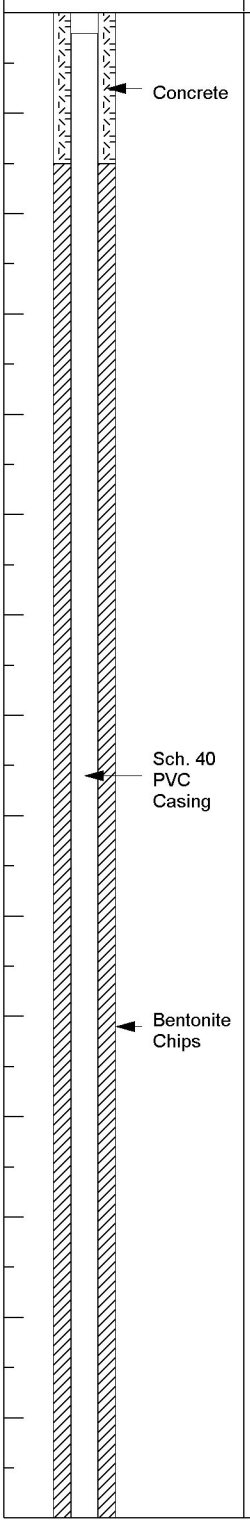
LOG OF BORING: MW-348



PID (PPM)	Sample ID	Sample Recovery (in)	Depth (Feet)	Lithologic Description
			0	BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to medium, little fine to coarse subangular gravel, little fines, abundant 4-inch angular cobbles (FILL)
			2	at 3 feet: 5 inches of asphalt and gravel base layer
			4	at 4 feet: concrete debris Air knife & vac to 5 feet
0.0			6	at 5 feet: some gravel, gray mottling
0.0				
0.0		57	8	BROWN SILTY SAND WITH GRAVEL (SM), moist to wet, fine to medium, some fines, little fine to coarse subangular to subrounded gravel, rare orange-brown mottling (FILL)
0.0				
0.0			10	
0.0				BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to coarse, little fine to coarse subangular to subrounded gravel, little fines, black slag (FILL)
0.0			12	
0.0		60		
0.0			14	at 14 feet: black geotextile fabric
0.0				DARK BROWN GRAVEL WITH SILT (GP), moist, fine to coarse subangular to subrounded, few fine to medium sand, few fines, abundant angular cobbles (FILL)
0.0			16	at 17 feet: light brown woven fabric
0.0				BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to medium, some fine to coarse subrounded gravel, little fines at 17.5 feet: few fine gravel
0.0			18	
0.0		86		
0.0			20	at 20.5 feet: trace fine gravel
0.0				
0.0			22	
0.0				
0.0			24	at 24 feet: 4-inch horizon with some fine to coarse gravel
0.0				
0.0			26	at 26 feet: horizon of clay 2 inches thick
0.2		84		BROWN SILTY SAND (SM), moist, fine, little fines, few fine to coarse subrounded to rounded gravel, rare brown-orange staining
0.0			28	at 28 feet: higher moisture content, fine to medium at 29 feet: horizon of dark red staining 1 inch thick
0.0				
0.0			30	BROWN SILTY SAND (SM), moist, fine to medium, some fines, trace coarse subrounded

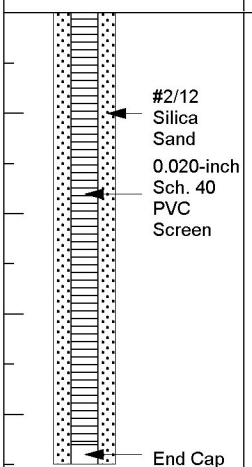
Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 409

Total Drilled Depth: 69 feet
Diameter of Boring: 6 inches
Drill Date: 5/18/21
Drilled By: Cascade
Drill Method: Sonic

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	0.0						
	0.0				32		BROWN CLAY (CL), moist, few fine sand, medium plasticity, slow dilitancy, sticky consistancy, rare orange mottling
	0.0		60				BROWN SILTY SAND (SM), wet, medium, little fines at 34 feet: 2 inches of gray-brown wet gravel with medium sand at 34.2 feet: 3 inches of gray silty fine to medium sand with fine gravel at 34.5 feet: 3 inches of dark red-stained silty medium sand at 34.8 feet: 4 inches of brown silty gravel with fine to coarse sand
	0.0				34		
	0.0						GRAY SILTY SAND (SM), moist to wet, medium, some fines trace fine subrounded gravel, abundant coarse sand at base
	0.0				36		heterogenous mix of GRAY SILTY SAND (SM), moist, fine to medium, some fines, and GRAY SILTY SAND (SM), moist, medium sand, little fines, trace fine to coarse subrounded to rounded gravel
	1.5		60				
	1.3				38		GRAY SILTY SAND (SM), dry to moist, fine to medium, some fines, few fine subrounded gravel
	2.2				40		GRAY SILT (ML), moist, few fine sand, trace coarse subrounded gravel, low plasticity
	84.1	MW-348-40					
	66.2				42		
	47.8		60				
	24.1				44		GRAY SILTY SAND (SM), moist, fine to medium, some fines, few fine to coarse subrounded gravel
	23.6				46		
	24.0		60				
	57.7				48		GRAY SAND WITH SILT (SP), wet, medium, few fines
		MW-348-49					GRAY SILTY SAND (SM), moist, fine do medium some fines, few fine to coarse rounded gravel, rounded cobbles
	18.8				50		
	1.5						
	0.1		60		52		
	2.5						GRAY SANDY SILT (ML), moist, some fine sand, few fine to coarse subrounded gravel, no to low plasticity, grades from unit above
	2.1	MW-348-54.5			54		
	0.0						
	0.0				56		
	0.0						
	0.0				58		
	0.0		84				
	0.8				60		

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 409

Total Drilled Depth: 69 feet
Diameter of Boring: 6 inches
Drill Date: 5/18/21
Drilled By: Cascade
Drill Method: Sonic



PID (PPM)	Sample ID	Sample Recovery (in)	Depth (Feet)	Lithologic Description
0.2	MW-348-60		62	
0.1				
0.0			64	
0.1	MW-348-65	72		GRAY SILTY SAND (SM), moist, fine to medium, some fines, few fine to coarse subrounded gravel
0.0			66	
0.0				
0.0			68	
	MW-348-69			Bottom of Boring at 69 feet Well Completion Details: Well constructed with 2-inch Schedule 40 PVC pipe and a 0.020-inch machine slotted screen with #12-20 Sand Total Well Depth: 68.9 feet Well Sump/Endcap: 68.6 to 68.9 feet Well Screen: 58.6 to 68.6 feet Well Riser: 0.4 to 58.6 feet Filter Pack: 56 to 69 feet Well Seal: 3 to 56 feet (hydrated bentonite chips) Surface Seal: 0 to 3 feet (concrete) Well Monument: Flush with grade 8-inch steel monument
			70	
			72	
			74	
			76	
			78	
			80	
			82	
			84	
			86	
			88	
			90	

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 409

Total Drilled Depth: 69 feet
Diameter of Boring: 6 inches
Drill Date: 5/18/21
Drilled By: Cascade
Drill Method: Sonic

PES Environmental, Inc.
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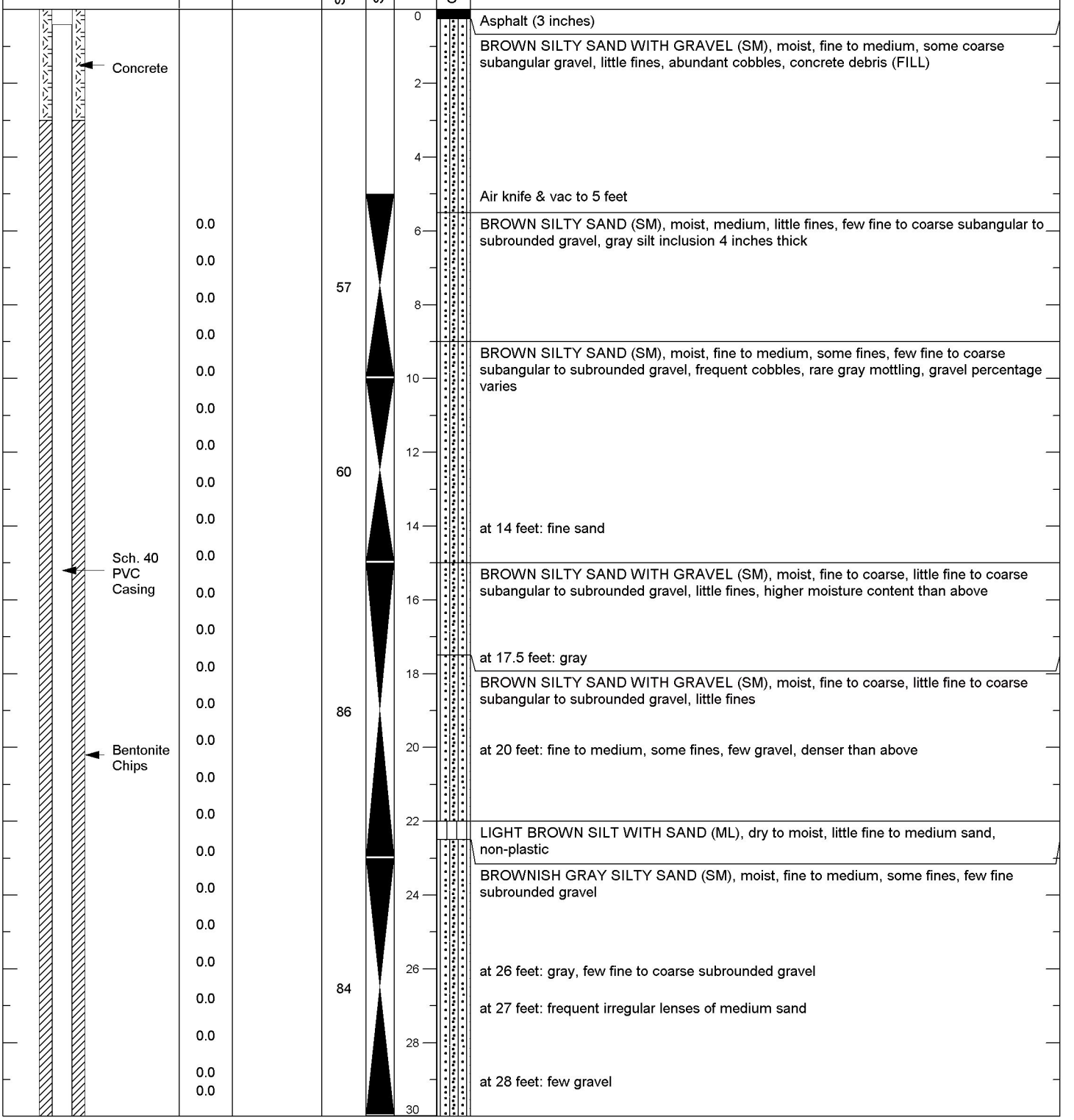
AN NV5 COMPANY

LOG OF BORING: MW-349



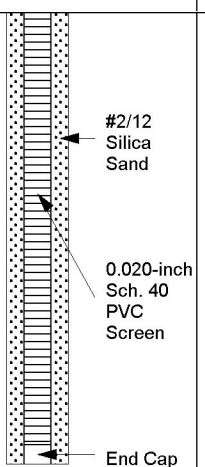
Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 408

Total Drilled Depth: 69 feet
Diameter of Boring: 6 inches
Drill Date: 5/17/21
Drilled By: Cascade
Drill Method: Sonic

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	0.0						
	0.0				32		GRAY SILT (ML), dry to moist, few fine sand, low plasticity, rapid dilatancy
	0.0		60				
	0.0				34		GRAY SILTY SAND (SM), moist, fine to medium, some fines, few coarse subrounded gravel, grades from unit above
	0.1						
	0.0				36		GRAY SILTY SAND (SM), moist, fine, little fines, trace fine to coarse subrounded gravel, frequent inclusions of fine to medium silty sand
	0.0						
	0.0		60				GRAY SILT (ML), dry to moist, few fine sand, low plasticity, rapid dilatancy
	0.0				38		GRAY SILTY SAND (SM), moist, fine to medium, some fines, trace fine to coarse subrounded gravel
	0.0						
	0.0				40		
	0.0						
	0.0				42		at 41.5 feet: occasional lenses of fine to medium silty sand
	0.0		60				
	0.0				44		at 44 feet: 4-inch surounded cobble
	0.0						
	0.0				46		
	3.9						GRAY SAND WITH SILT (SP), wet, fine to coarse, few fines
	6.0		60				
	3.1				48		
		MW-349-49					
	2.9				50		GRAY SILT WITH SAND (ML), moist to wet, little fine sand, no to low plasticity, rapid dilatancy
	2.9	MW-349-51					
	0.0				52		GRAY SILTY SAND (SM), moist, fine to medium, some fines, few fine to coarse subrounded gravel, rare cobbles up to 4 inches thick, grades from unit above
	0.0		60				
	0.0				54		
	0.0						
	0.0	MW-349-56			56		
	0.0						
	0.0				58		
	0.0		84				GRAY SANDY SILT (ML), moist, some fine to medium sand, few coarse subrounded gravel, rare cobbles
	0.0				60		

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 408

Total Drilled Depth: 69 feet
Diameter of Boring: 6 inches
Drill Date: 5/17/21
Drilled By: Cascade
Drill Method: Sonic

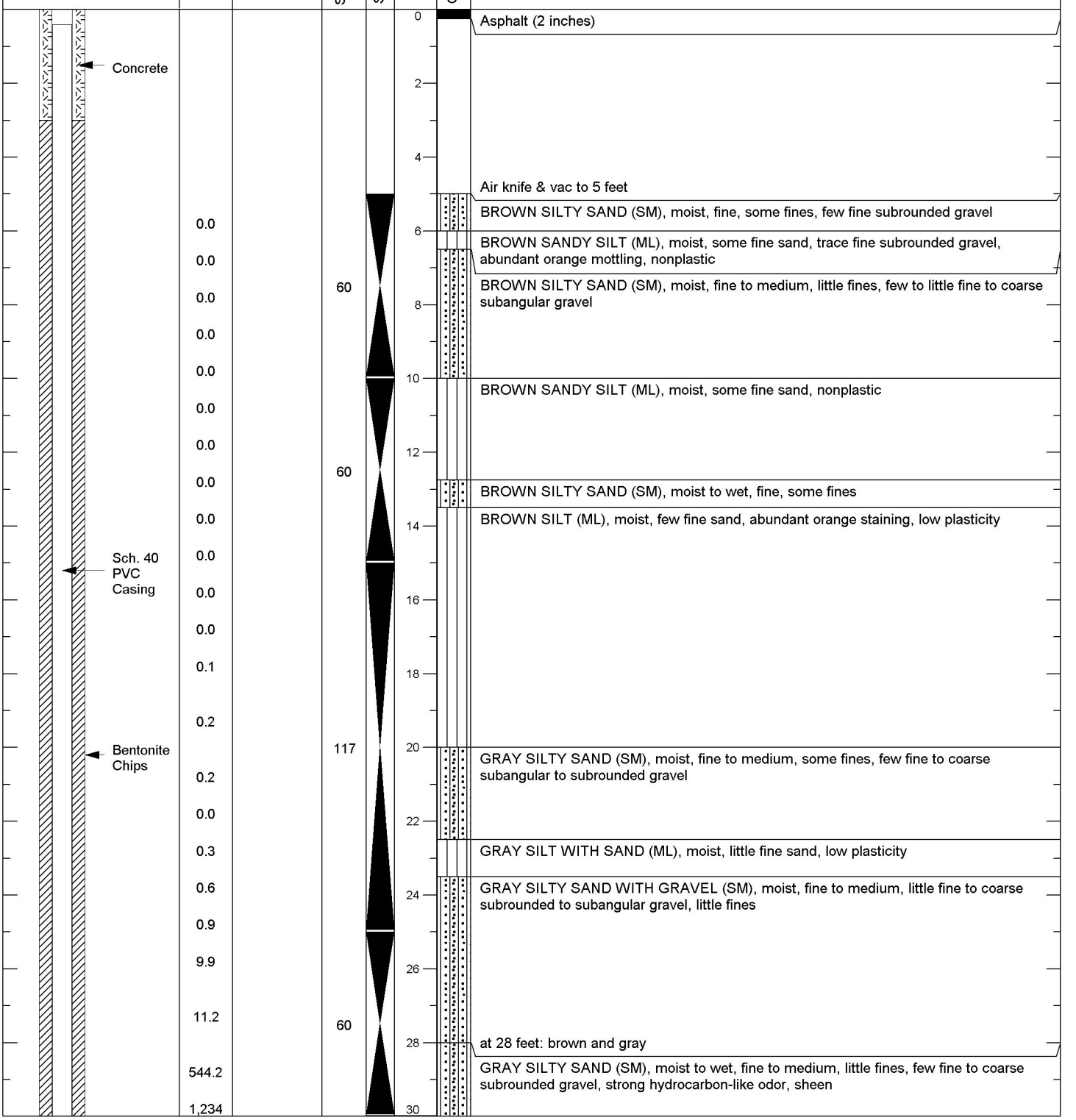
Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	0.0	MW-349-61	72		62		
	0.0						
	0.0						
	0.0				64		
	0.0						
	0.0	MW-349-66			66		
	0.0						
	0.1	MW-349-68.5			68		
					70		Bottom of Boring at 69.0 feet Well Completion Details: Well constructed with 2-inch Schedule 40 PVC pipe and a 0.020-inch machine slotted screen with #12-20 Sand Total Well Depth: 68.9 feet Well Sump/Endcap: 68.6 to 68.9 feet Well Screen: 58.6 to 68.6 feet Well Riser: 0.3 to 58.6 feet Filter Pack: 56 to 69.0 feet Well Seal: 3 to 56 feet (hydrated bentonite chips) Surface Seal: 0 to 3 feet (concrete) Well Monument: Flush with grade 8-inch steel monument
					72		
					74		
					76		
					78		
					80		
					82		
					84		
					86		
					88		
					90		

Project: American Linen Supply Co - Dexter Avenue Site
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 408

Total Drilled Depth: 69 feet
Diameter of Boring: 6 inches
Drill Date: 5/17/21
Drilled By: Cascade
Drill Method: Sonic

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

LOG OF BORING: MW-350



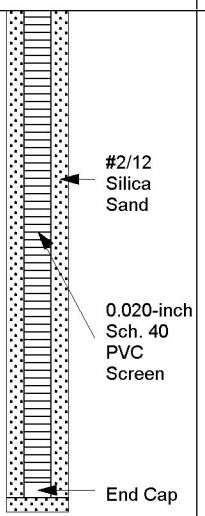
Project: Former American Linen Supply
Project Number: 1413.001.02.501I
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 414

Total Drilled Depth: 70 feet
Diameter of Boring: 6 inches
Drill Date: 5/21/21
Drilled By: Cascade
Drill Method: Sonic

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Depth (Feet)	Lithologic Description
	46.0				GRAYISH BROWN SILTY SAND (SM), moist, fine, some fines, few fine to coarse subrounded gravel
	6.0			32	at 32 feet: gray
	3.0		60		
	2.0			34	GRAY SANDY SILT (ML), moist, some fine sand, nonplastic, brown at base of unit
	1.8				BROWN SANDY SILT (ML), moist, some fine to medium sand, mixed with abundant lenses of BROWN SAND WITH SILT (SP), moist to wet, fine to medium, few fines
	0.2			36	
	0.1				
			60		
	1.7			38	GRAY SILTY SAND (SM), moist, fine to medium, some fines, few fine to coarse subrounded gravel
	1.4				
				40	at 40 feet: occasional inclusions of medium sand up to 2 inches thick
	251.1	MW-350-41			at 41 feet: strong chemical odor
	1.5			42	
			60		
	0.0				
	0.1			44	GRAY SILTY SAND (SM) moist, fine, some fines, trace fine to coarse subrounded gravel, abundant inclusions of fine to medium sand
	0.0				
	0.0			46	
	0.0				GRAY SANDY SILT (ML), moist, some fine sand, nonplastic
			60		
	1.0			48	
					at 49 feet: medium sand lense 4 inches thick
	2.4			50	GRAY SILTY SAND WITH GRAVEL (SM), moist, fine to medium, some fines, little fine to coarse subrounded gravel
	0.0				
	0.0				at 51 feet: 4-inch cobble
				52	GRAY SILT WITH SAND (ML), moist, little fine sand, low plasticity
	0.4	MW-350-53	60		GRAY SILTY SAND (SM), moist, fine to medium, some fines, few fine to coarse subrounded gravel, homogeneous
	0.0			54	
	0.0				
	0.0			56	
	0.1				
	0.1	MW-350-58		58	GRAY SANDY SILT (ML), moist, some fine sand, few fine subrounded gravel
	0.2				
	0.0		112	60	

Project: Former American Linen Supply
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 414

Total Drilled Depth: 70 feet
Diameter of Boring: 6 inches
Drill Date: 5/21/21
Drilled By: Cascade
Drill Method: Sonic

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	0.0				62		
	0.0						
	0.0				64		
	0.0	MW-350-64.5					
	7.4				66		
	0.0		60				
	0.1				68		
	0.2						
	1.2	MW-350-69			70		Bottom of Boring at 70.0 feet Well Completion Details: Well constructed with 2-inch Schedule 40 PVC pipe and a 0.020-inch machine slotted screen with #12-20 Sand Total Well Depth: 69.7 feet Well Sump/Endcap: 69.4 to 69.7 feet Well Screen: 59.4 to 69.4 feet Well Riser: 0.3 to 59.4 feet Filter Pack: 57 to 70 feet Well Seal: 3 to 57 feet (hydrated bentonite chips) Surface Seal: 0 to 3 feet (concrete) Well Monument: Flush with grade 8-inch steel monument
	0.0				72		
					74		
					76		
					78		
					80		
					82		
					84		
					86		
					88		
					90		

Project: Former American Linen Supply
Project Number: 1413.001.02.501l
Site Location: Seattle, WA
Logged By: C. DeBoer
Ecology I.D.: BNA - 414

Total Drilled Depth: 70 feet
Diameter of Boring: 6 inches
Drill Date: 5/21/21
Drilled By: Cascade
Drill Method: Sonic

ATTACHMENT B
LABORATORY REPORTS

ANALYTICAL REPORT

June 09, 2021

PES Environmental, Inc.- WA

Sample Delivery Group:	L1355982
Samples Received:	05/20/2021
Project Number:	1413.001.02.501l
Description:	American Linen
Site:	FORMER AMERICAN LINEN
Report To:	Brian O'Neal/Bill Haldeman 2101 Fourth Ave., Suite 1310 Seattle, WA 98121

Entire Report Reviewed By:

Jared Starkey
Project Manager

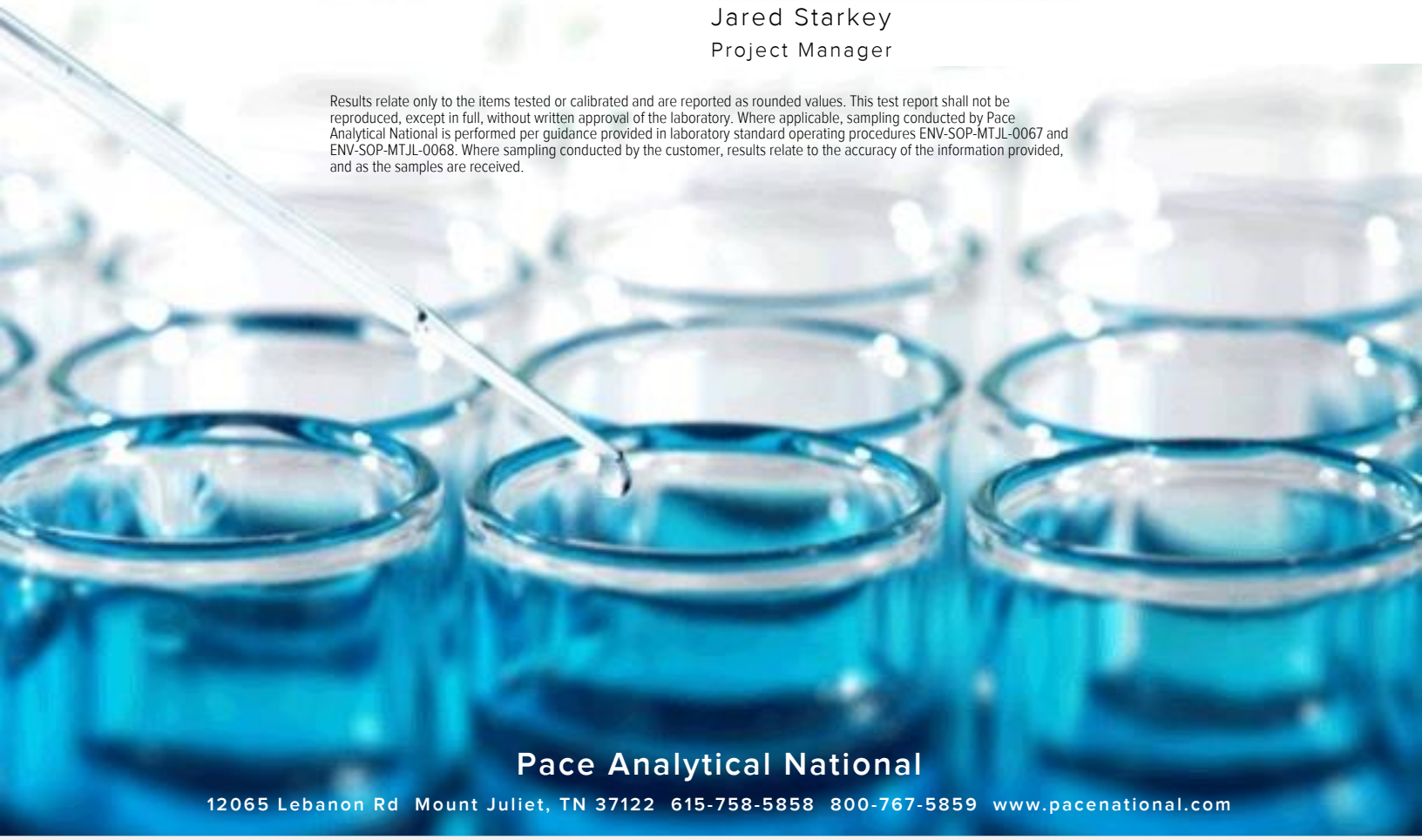


TABLE OF CONTENTS

MW-349-51 L1355982-01 Solid

Collected by: Chris DeBoer | Collected date/time: 05/17/21 11:10 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677072	1	05/25/21 19:04	05/25/21 19:12	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/17/21 11:10	05/26/21 23:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1680309	1	05/17/21 11:10	05/31/21 11:02	TPR	Mt. Juliet, TN

MW-349-56 L1355982-02 Solid

Collected by: Chris DeBoer | Collected date/time: 05/17/21 11:20 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677072	1	05/25/21 19:04	05/25/21 19:12	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/17/21 11:20	05/26/21 23:33	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1680309	1	05/17/21 11:20	05/31/21 11:21	TPR	Mt. Juliet, TN

MW-349-61 L1355982-03 Solid

Collected by: Chris DeBoer | Collected date/time: 05/17/21 11:30 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677074	1	05/26/21 09:59	05/26/21 10:05	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/17/21 11:30	05/26/21 23:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1680309	1	05/17/21 11:30	05/31/21 11:40	TPR	Mt. Juliet, TN

MW-349-66 L1355982-04 Solid

Collected by: Chris DeBoer | Collected date/time: 05/17/21 11:50 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677074	1	05/26/21 09:59	05/26/21 10:05	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/17/21 11:50	05/27/21 00:11	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1680309	1	05/17/21 11:50	05/31/21 11:59	TPR	Mt. Juliet, TN

MW-349-68 L1355982-05 Solid

Collected by: Chris DeBoer | Collected date/time: 05/17/21 12:00 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677074	1	05/26/21 09:59	05/26/21 10:05	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/17/21 12:00	05/27/21 00:30	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1680309	1	05/17/21 12:00	05/31/21 12:18	TPR	Mt. Juliet, TN

MW-349-49 L1355982-06 Solid

Collected by: Chris DeBoer | Collected date/time: 05/17/21 12:10 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677074	1	05/26/21 09:59	05/26/21 10:05	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/17/21 12:10	05/27/21 00:49	BMB	Mt. Juliet, TN

MW-348-49 L1355982-07 Solid

Collected by: Chris DeBoer | Collected date/time: 05/18/21 12:40 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677074	1	05/26/21 09:59	05/26/21 10:05	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/18/21 12:40	05/27/21 01:08	BMB	Mt. Juliet, TN

MW-348-54.5 L1355982-08 Solid

Collected by: Chris DeBoer | Collected date/time: 05/18/21 13:10 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677074	1	05/26/21 09:59	05/26/21 10:05	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/18/21 13:10	05/27/21 01:26	BMB	Mt. Juliet, TN

MW-348-60 L1355982-09 Solid

Collected by: Chris DeBoer | Collected date/time: 05/18/21 13:25 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677074	1	05/26/21 09:59	05/26/21 10:05	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/18/21 13:25	05/27/21 01:45	BMB	Mt. Juliet, TN

MW-348-41 L1355982-10 Solid

Collected by: Chris DeBoer | Collected date/time: 05/18/21 13:45 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677074	1	05/26/21 09:59	05/26/21 10:05	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/18/21 13:45	05/27/21 02:04	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1680309	20	05/18/21 13:45	05/31/21 14:31	TPR	Mt. Juliet, TN

MW-348-65 L1355982-11 Solid

Collected by: Chris DeBoer | Collected date/time: 05/18/21 13:50 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677074	1	05/26/21 09:59	05/26/21 10:05	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/18/21 13:50	05/27/21 02:23	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1680309	1	05/18/21 13:50	05/31/21 13:15	TPR	Mt. Juliet, TN

MW-348-69 L1355982-12 Solid

Collected by: Chris DeBoer | Collected date/time: 05/18/21 14:00 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677074	1	05/26/21 09:59	05/26/21 10:05	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/18/21 14:00	05/27/21 02:42	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1680309	1	05/18/21 14:00	05/31/21 13:34	TPR	Mt. Juliet, TN

MW-2022-44.5 L1355982-13 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 09:40 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677076	1	05/26/21 10:06	05/26/21 10:14	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/19/21 09:40	05/27/21 03:01	BMB	Mt. Juliet, TN

MW-347-48 L1355982-14 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 09:50 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677076	1	05/26/21 10:06	05/26/21 10:14	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678061	1	05/19/21 09:50	05/27/21 03:20	BMB	Mt. Juliet, TN

MW-347-54.5 L1355982-15 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 10:10 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677076	1	05/26/21 10:06	05/26/21 10:14	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678763	1	05/19/21 10:10	05/27/21 18:01	JHH	Mt. Juliet, TN

MW-347-58 L1355982-16 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 10:20 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677076	1	05/26/21 10:06	05/26/21 10:14	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678763	1	05/19/21 10:20	05/27/21 18:22	JHH	Mt. Juliet, TN

MW-347-65 L1355982-17 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 10:40 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677076	1	05/26/21 10:06	05/26/21 10:14	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678763	1	05/19/21 10:40	05/27/21 18:43	JHH	Mt. Juliet, TN

MW-347-44.5 L1355982-18 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 10:50 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677076	1	05/26/21 10:06	05/26/21 10:14	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678763	1	05/19/21 10:50	05/27/21 19:03	JHH	Mt. Juliet, TN

MW-346-41.5 L1355982-19 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 14:20 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677076	1	05/26/21 10:06	05/26/21 10:14	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678763	1	05/19/21 14:20	05/27/21 19:24	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679857	10	05/19/21 14:20	05/29/21 18:22	ACG	Mt. Juliet, TN

MW-346-47 L1355982-20 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 14:35 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677076	1	05/26/21 10:06	05/26/21 10:14	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678763	1	05/19/21 14:35	05/27/21 19:45	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679857	4	05/19/21 14:35	05/29/21 18:41	ACG	Mt. Juliet, TN

MW-346-52 L1355982-21 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 15:10 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677076	1	05/26/21 10:06	05/26/21 10:14	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678763	1	05/19/21 15:10	05/27/21 20:05	JHH	Mt. Juliet, TN

MW-346-54.5 L1355982-22 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 14:55 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677076	1	05/26/21 10:06	05/26/21 10:14	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678763	4	05/19/21 14:55	05/27/21 22:15	JHH	Mt. Juliet, TN

MW-346-57.5 L1355982-23 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 15:15 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677078	1	05/26/21 11:17	05/26/21 11:23	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678763	1	05/19/21 15:15	05/27/21 22:36	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679857	1	05/19/21 15:15	05/29/21 19:00	ACG	Mt. Juliet, TN

MW-346-62 L1355982-24 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 15:25 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1677078	1	05/26/21 11:17	05/26/21 11:23	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1678763	1	05/19/21 15:25	05/27/21 22:57	JHH	Mt. Juliet, TN

TB-051921 L1355982-25 Solid

Collected by: Chris DeBoer | Collected date/time: 05/19/21 00:00 | Received date/time: 05/20/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1681785	1	05/19/21 00:00	06/02/21 17:14	ADM	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jared Starkey
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.3		1	05/25/2021 19:12	WG1677072

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0527	J	0.0436	0.0597	1	05/26/2021 23:14	WG1678061
Acrylonitrile	U		0.00431	0.0149	1	05/26/2021 23:14	WG1678061
Benzene	U		0.000557	0.00119	1	05/26/2021 23:14	WG1678061
Bromobenzene	U		0.00107	0.0149	1	05/26/2021 23:14	WG1678061
Bromodichloromethane	U		0.000865	0.00298	1	05/26/2021 23:14	WG1678061
Bromochloromethane	U		0.000673	0.00597	1	05/26/2021 23:14	WG1678061
Bromoform	U		0.00140	0.0298	1	05/26/2021 23:14	WG1678061
Bromomethane	U		0.00235	0.0149	1	05/26/2021 23:14	WG1678061
n-Butylbenzene	U		0.00626	0.0149	1	05/26/2021 23:14	WG1678061
sec-Butylbenzene	U		0.00344	0.0149	1	05/26/2021 23:14	WG1678061
tert-Butylbenzene	U		0.00233	0.00597	1	05/26/2021 23:14	WG1678061
Carbon disulfide	U		0.000835	0.0149	1	05/26/2021 23:14	WG1678061
Carbon tetrachloride	U		0.00107	0.00597	1	05/26/2021 23:14	WG1678061
Chlorobenzene	U		0.000251	0.00298	1	05/26/2021 23:14	WG1678061
Chlorodibromomethane	U		0.000730	0.00298	1	05/26/2021 23:14	WG1678061
Chloroethane	U		0.00203	0.00597	1	05/26/2021 23:14	WG1678061
Chloroform	U		0.00123	0.00298	1	05/26/2021 23:14	WG1678061
Chloromethane	U		0.00519	0.0149	1	05/26/2021 23:14	WG1678061
2-Chlorotoluene	U		0.00103	0.00298	1	05/26/2021 23:14	WG1678061
4-Chlorotoluene	U		0.000537	0.00597	1	05/26/2021 23:14	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00465	0.0298	1	05/26/2021 23:14	WG1678061
1,2-Dibromoethane	U		0.000773	0.00298	1	05/26/2021 23:14	WG1678061
Dibromomethane	U		0.000895	0.00597	1	05/26/2021 23:14	WG1678061
1,2-Dichlorobenzene	U		0.000507	0.00597	1	05/26/2021 23:14	WG1678061
1,3-Dichlorobenzene	U		0.000716	0.00597	1	05/26/2021 23:14	WG1678061
1,4-Dichlorobenzene	U		0.000835	0.00597	1	05/26/2021 23:14	WG1678061
Dichlorodifluoromethane	U		0.00192	0.00298	1	05/26/2021 23:14	WG1678061
1,1-Dichloroethane	U		0.000586	0.00298	1	05/26/2021 23:14	WG1678061
1,2-Dichloroethane	U		0.000774	0.00298	1	05/26/2021 23:14	WG1678061
1,1-Dichloroethene	U		0.000723	0.00298	1	05/26/2021 23:14	WG1678061
cis-1,2-Dichloroethene	0.0675		0.000876	0.00298	1	05/26/2021 23:14	WG1678061
trans-1,2-Dichloroethene	U		0.00124	0.00597	1	05/26/2021 23:14	WG1678061
1,2-Dichloropropane	U		0.00169	0.00597	1	05/26/2021 23:14	WG1678061
1,1-Dichloropropene	U		0.000965	0.00298	1	05/26/2021 23:14	WG1678061
1,3-Dichloropropane	U		0.000598	0.00597	1	05/26/2021 23:14	WG1678061
cis-1,3-Dichloropropene	U		0.000903	0.00298	1	05/26/2021 23:14	WG1678061
trans-1,3-Dichloropropene	U		0.00136	0.00597	1	05/26/2021 23:14	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00222	0.00597	1	05/26/2021 23:14	WG1678061
2,2-Dichloropropane	U		0.00165	0.00298	1	05/26/2021 23:14	WG1678061
Di-isopropyl ether	U		0.000489	0.00119	1	05/26/2021 23:14	WG1678061
Ethylbenzene	0.00101	J	0.000879	0.00298	1	05/26/2021 23:14	WG1678061
Hexachloro-1,3-butadiene	U		0.00716	0.0298	1	05/26/2021 23:14	WG1678061
2-Hexanone	U		0.00401	0.0298	1	05/26/2021 23:14	WG1678061
n-Hexane	U		0.00270	0.00597	1	05/26/2021 23:14	WG1678061
Iodomethane	U		0.00277	0.0149	1	05/26/2021 23:14	WG1678061
Isopropylbenzene	U		0.000507	0.00298	1	05/26/2021 23:14	WG1678061
p-Isopropyltoluene	U		0.00304	0.00597	1	05/26/2021 23:14	WG1678061
2-Butanone (MEK)	U		0.0758	0.119	1	05/26/2021 23:14	WG1678061
Methylene Chloride	U		0.00792	0.0298	1	05/26/2021 23:14	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00272	0.0298	1	05/26/2021 23:14	WG1678061

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000418	0.00119	1	05/26/2021 23:14	WG1678061
Naphthalene	U		0.00582	0.0149	1	05/26/2021 23:14	WG1678061
n-Propylbenzene	U		0.00113	0.00597	1	05/26/2021 23:14	WG1678061
Styrene	U		0.000273	0.0149	1	05/26/2021 23:14	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00113	0.00298	1	05/26/2021 23:14	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000829	0.00298	1	05/26/2021 23:14	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000900	0.00298	1	05/26/2021 23:14	WG1678061
Tetrachloroethene	0.00546		0.00107	0.00298	1	05/26/2021 23:14	WG1678061
Toluene	0.0114		0.00155	0.00597	1	05/26/2021 23:14	WG1678061
1,2,3-Trichlorobenzene	U		0.00875	0.0149	1	05/26/2021 23:14	WG1678061
1,2,4-Trichlorobenzene	U		0.00525	0.0149	1	05/26/2021 23:14	WG1678061
1,1,1-Trichloroethane	U		0.00110	0.00298	1	05/26/2021 23:14	WG1678061
1,1,2-Trichloroethane	U		0.000712	0.00298	1	05/26/2021 23:14	WG1678061
Trichloroethene	0.00274		0.000697	0.00119	1	05/31/2021 11:02	WG1680309
Trichlorofluoromethane	U		0.000987	0.00298	1	05/26/2021 23:14	WG1678061
1,2,3-Trichloropropane	U		0.00193	0.0149	1	05/26/2021 23:14	WG1678061
1,2,4-Trimethylbenzene	U		0.00189	0.00597	1	05/26/2021 23:14	WG1678061
1,2,3-Trimethylbenzene	U		0.00189	0.00597	1	05/26/2021 23:14	WG1678061
1,3,5-Trimethylbenzene	U		0.00239	0.00597	1	05/26/2021 23:14	WG1678061
Vinyl acetate	U		0.00303	0.0149	1	05/26/2021 23:14	WG1678061
Vinyl chloride	0.00802		0.00138	0.00298	1	05/26/2021 23:14	WG1678061
Xylenes, Total	U		0.00105	0.00776	1	05/26/2021 23:14	WG1678061
(S) Toluene-d8	*102*			*75.0-131*		*05/26/2021 23:14*	WG1678061
(S) Toluene-d8	*98.2*			*75.0-131*		*05/31/2021 11:02*	WG1680309
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*05/26/2021 23:14*	WG1678061
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*05/31/2021 11:02*	WG1680309
(S) 1,2-Dichloroethane-d4	*96.0*			*70.0-130*		*05/26/2021 23:14*	WG1678061
(S) 1,2-Dichloroethane-d4	*96.3*			*70.0-130*		*05/31/2021 11:02*	WG1680309

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	05/25/2021 19:12	WG1677072

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0435	0.0595	1	05/26/2021 23:33	WG1678061
Acrylonitrile	U		0.00430	0.0149	1	05/26/2021 23:33	WG1678061
Benzene	U		0.000556	0.00119	1	05/26/2021 23:33	WG1678061
Bromobenzene	U		0.00107	0.0149	1	05/26/2021 23:33	WG1678061
Bromodichloromethane	U		0.000863	0.00298	1	05/26/2021 23:33	WG1678061
Bromochloromethane	U		0.000671	0.00595	1	05/26/2021 23:33	WG1678061
Bromoform	U		0.00139	0.0298	1	05/26/2021 23:33	WG1678061
Bromomethane	U		0.00235	0.0149	1	05/26/2021 23:33	WG1678061
n-Butylbenzene	U		0.00625	0.0149	1	05/26/2021 23:33	WG1678061
sec-Butylbenzene	U		0.00343	0.0149	1	05/26/2021 23:33	WG1678061
tert-Butylbenzene	U		0.00232	0.00595	1	05/26/2021 23:33	WG1678061
Carbon disulfide	U		0.000833	0.0149	1	05/26/2021 23:33	WG1678061
Carbon tetrachloride	U		0.00107	0.00595	1	05/26/2021 23:33	WG1678061
Chlorobenzene	U		0.000250	0.00298	1	05/26/2021 23:33	WG1678061
Chlorodibromomethane	U		0.000729	0.00298	1	05/26/2021 23:33	WG1678061
Chloroethane	U		0.00202	0.00595	1	05/26/2021 23:33	WG1678061
Chloroform	U		0.00123	0.00298	1	05/26/2021 23:33	WG1678061
Chloromethane	U		0.00518	0.0149	1	05/26/2021 23:33	WG1678061
2-Chlorotoluene	U		0.00103	0.00298	1	05/26/2021 23:33	WG1678061
4-Chlorotoluene	U		0.000536	0.00595	1	05/26/2021 23:33	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00464	0.0298	1	05/26/2021 23:33	WG1678061
1,2-Dibromoethane	U		0.000771	0.00298	1	05/26/2021 23:33	WG1678061
Dibromomethane	U		0.000893	0.00595	1	05/26/2021 23:33	WG1678061
1,2-Dichlorobenzene	U		0.000506	0.00595	1	05/26/2021 23:33	WG1678061
1,3-Dichlorobenzene	U		0.000714	0.00595	1	05/26/2021 23:33	WG1678061
1,4-Dichlorobenzene	U		0.000833	0.00595	1	05/26/2021 23:33	WG1678061
Dichlorodifluoromethane	U		0.00192	0.00298	1	05/26/2021 23:33	WG1678061
1,1-Dichloroethane	U		0.000585	0.00298	1	05/26/2021 23:33	WG1678061
1,2-Dichloroethane	U		0.000773	0.00298	1	05/26/2021 23:33	WG1678061
1,1-Dichloroethene	U		0.000721	0.00298	1	05/26/2021 23:33	WG1678061
cis-1,2-Dichloroethene	0.00200	J	0.000874	0.00298	1	05/26/2021 23:33	WG1678061
trans-1,2-Dichloroethene	U		0.00124	0.00595	1	05/26/2021 23:33	WG1678061
1,2-Dichloropropane	U		0.00169	0.00595	1	05/26/2021 23:33	WG1678061
1,1-Dichloropropene	U		0.000963	0.00298	1	05/26/2021 23:33	WG1678061
1,3-Dichloropropane	U		0.000596	0.00595	1	05/26/2021 23:33	WG1678061
cis-1,3-Dichloropropene	U		0.000901	0.00298	1	05/26/2021 23:33	WG1678061
trans-1,3-Dichloropropene	U		0.00136	0.00595	1	05/26/2021 23:33	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00221	0.00595	1	05/26/2021 23:33	WG1678061
2,2-Dichloropropane	U		0.00164	0.00298	1	05/26/2021 23:33	WG1678061
Di-isopropyl ether	U		0.000488	0.00119	1	05/26/2021 23:33	WG1678061
Ethylbenzene	U		0.000877	0.00298	1	05/26/2021 23:33	WG1678061
Hexachloro-1,3-butadiene	U		0.00714	0.0298	1	05/26/2021 23:33	WG1678061
2-Hexanone	U		0.00400	0.0298	1	05/26/2021 23:33	WG1678061
n-Hexane	U		0.00269	0.00595	1	05/26/2021 23:33	WG1678061
Iodomethane	U		0.00276	0.0149	1	05/26/2021 23:33	WG1678061
Isopropylbenzene	U		0.000506	0.00298	1	05/26/2021 23:33	WG1678061
p-Isopropyltoluene	U		0.00304	0.00595	1	05/26/2021 23:33	WG1678061
2-Butanone (MEK)	U		0.0756	0.119	1	05/26/2021 23:33	WG1678061
Methylene Chloride	U		0.00791	0.0298	1	05/26/2021 23:33	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00271	0.0298	1	05/26/2021 23:33	WG1678061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000417	0.00119	1	05/26/2021 23:33	WG1678061
Naphthalene	U		0.00581	0.0149	1	05/26/2021 23:33	WG1678061
n-Propylbenzene	U		0.00113	0.00595	1	05/26/2021 23:33	WG1678061
Styrene	U		0.000273	0.0149	1	05/26/2021 23:33	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00113	0.00298	1	05/26/2021 23:33	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000827	0.00298	1	05/26/2021 23:33	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000898	0.00298	1	05/26/2021 23:33	WG1678061
Tetrachloroethene	U		0.00107	0.00298	1	05/26/2021 23:33	WG1678061
Toluene	0.00206	J	0.00155	0.00595	1	05/26/2021 23:33	WG1678061
1,2,3-Trichlorobenzene	U		0.00873	0.0149	1	05/26/2021 23:33	WG1678061
1,2,4-Trichlorobenzene	U		0.00524	0.0149	1	05/26/2021 23:33	WG1678061
1,1,1-Trichloroethane	U		0.00110	0.00298	1	05/26/2021 23:33	WG1678061
1,1,2-Trichloroethane	U		0.000711	0.00298	1	05/26/2021 23:33	WG1678061
Trichloroethene	U		0.000695	0.00119	1	05/31/2021 11:21	WG1680309
Trichlorofluoromethane	U		0.000985	0.00298	1	05/26/2021 23:33	WG1678061
1,2,3-Trichloropropane	U		0.00193	0.0149	1	05/26/2021 23:33	WG1678061
1,2,4-Trimethylbenzene	U		0.00188	0.00595	1	05/26/2021 23:33	WG1678061
1,2,3-Trimethylbenzene	U		0.00188	0.00595	1	05/26/2021 23:33	WG1678061
1,3,5-Trimethylbenzene	U		0.00238	0.00595	1	05/26/2021 23:33	WG1678061
Vinyl acetate	U		0.00302	0.0149	1	05/26/2021 23:33	WG1678061
Vinyl chloride	U		0.00138	0.00298	1	05/26/2021 23:33	WG1678061
Xylenes, Total	U		0.00105	0.00774	1	05/26/2021 23:33	WG1678061
(S) Toluene-d8	*105*			*75.0-131*		*05/26/2021 23:33*	WG1678061
(S) Toluene-d8	*106*			*75.0-131*		*05/31/2021 11:21*	WG1680309
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*05/26/2021 23:33*	WG1678061
(S) 4-Bromofluorobenzene	*99.5*			*67.0-138*		*05/31/2021 11:21*	WG1680309
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*05/26/2021 23:33*	WG1678061
(S) 1,2-Dichloroethane-d4	*90.9*			*70.0-130*		*05/31/2021 11:21*	WG1680309

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	05/26/2021 10:05	WG1677074

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0445	0.0609	1	05/26/2021 23:52	WG1678061
Acrylonitrile	U		0.00440	0.0152	1	05/26/2021 23:52	WG1678061
Benzene	U		0.000569	0.00122	1	05/26/2021 23:52	WG1678061
Bromobenzene	U		0.00110	0.0152	1	05/26/2021 23:52	WG1678061
Bromodichloromethane	U		0.000883	0.00305	1	05/26/2021 23:52	WG1678061
Bromochloromethane	U		0.000687	0.00609	1	05/26/2021 23:52	WG1678061
Bromoform	U		0.00143	0.0305	1	05/26/2021 23:52	WG1678061
Bromomethane	U		0.00240	0.0152	1	05/26/2021 23:52	WG1678061
n-Butylbenzene	U		0.00640	0.0152	1	05/26/2021 23:52	WG1678061
sec-Butylbenzene	U		0.00351	0.0152	1	05/26/2021 23:52	WG1678061
tert-Butylbenzene	U		0.00238	0.00609	1	05/26/2021 23:52	WG1678061
Carbon disulfide	U		0.000853	0.0152	1	05/26/2021 23:52	WG1678061
Carbon tetrachloride	U		0.00109	0.00609	1	05/26/2021 23:52	WG1678061
Chlorobenzene	U		0.000256	0.00305	1	05/26/2021 23:52	WG1678061
Chlorodibromomethane	U		0.000746	0.00305	1	05/26/2021 23:52	WG1678061
Chloroethane	U		0.00207	0.00609	1	05/26/2021 23:52	WG1678061
Chloroform	U		0.00126	0.00305	1	05/26/2021 23:52	WG1678061
Chloromethane	U		0.00530	0.0152	1	05/26/2021 23:52	WG1678061
2-Chlorotoluene	U		0.00105	0.00305	1	05/26/2021 23:52	WG1678061
4-Chlorotoluene	U		0.000548	0.00609	1	05/26/2021 23:52	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00475	0.0305	1	05/26/2021 23:52	WG1678061
1,2-Dibromoethane	U		0.000790	0.00305	1	05/26/2021 23:52	WG1678061
Dibromomethane	U		0.000914	0.00609	1	05/26/2021 23:52	WG1678061
1,2-Dichlorobenzene	U		0.000518	0.00609	1	05/26/2021 23:52	WG1678061
1,3-Dichlorobenzene	U		0.000731	0.00609	1	05/26/2021 23:52	WG1678061
1,4-Dichlorobenzene	U		0.000853	0.00609	1	05/26/2021 23:52	WG1678061
Dichlorodifluoromethane	U		0.00196	0.00305	1	05/26/2021 23:52	WG1678061
1,1-Dichloroethane	U		0.000598	0.00305	1	05/26/2021 23:52	WG1678061
1,2-Dichloroethane	U		0.000791	0.00305	1	05/26/2021 23:52	WG1678061
1,1-Dichloroethene	U		0.000738	0.00305	1	05/26/2021 23:52	WG1678061
cis-1,2-Dichloroethene	U		0.000894	0.00305	1	05/26/2021 23:52	WG1678061
trans-1,2-Dichloroethene	U		0.00127	0.00609	1	05/26/2021 23:52	WG1678061
1,2-Dichloropropane	U		0.00173	0.00609	1	05/26/2021 23:52	WG1678061
1,1-Dichloropropene	U		0.000986	0.00305	1	05/26/2021 23:52	WG1678061
1,3-Dichloropropane	U		0.000611	0.00609	1	05/26/2021 23:52	WG1678061
cis-1,3-Dichloropropene	U		0.000922	0.00305	1	05/26/2021 23:52	WG1678061
trans-1,3-Dichloropropene	U		0.00139	0.00609	1	05/26/2021 23:52	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00227	0.00609	1	05/26/2021 23:52	WG1678061
2,2-Dichloropropane	U		0.00168	0.00305	1	05/26/2021 23:52	WG1678061
Di-isopropyl ether	U		0.000500	0.00122	1	05/26/2021 23:52	WG1678061
Ethylbenzene	U		0.000898	0.00305	1	05/26/2021 23:52	WG1678061
Hexachloro-1,3-butadiene	U		0.00731	0.0305	1	05/26/2021 23:52	WG1678061
2-Hexanone	U		0.00409	0.0305	1	05/26/2021 23:52	WG1678061
n-Hexane	U		0.00275	0.00609	1	05/26/2021 23:52	WG1678061
Iodomethane	U		0.00283	0.0152	1	05/26/2021 23:52	WG1678061
Isopropylbenzene	U		0.000518	0.00305	1	05/26/2021 23:52	WG1678061
p-Isopropyltoluene	U		0.00311	0.00609	1	05/26/2021 23:52	WG1678061
2-Butanone (MEK)	U		0.0774	0.122	1	05/26/2021 23:52	WG1678061
Methylene Chloride	U		0.00809	0.0305	1	05/26/2021 23:52	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00278	0.0305	1	05/26/2021 23:52	WG1678061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000426	0.00122	1	05/26/2021 23:52	WG1678061
Naphthalene	U		0.00595	0.0152	1	05/26/2021 23:52	WG1678061
n-Propylbenzene	U		0.00116	0.00609	1	05/26/2021 23:52	WG1678061
Styrene	U		0.000279	0.0152	1	05/26/2021 23:52	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00116	0.00305	1	05/26/2021 23:52	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000847	0.00305	1	05/26/2021 23:52	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000919	0.00305	1	05/26/2021 23:52	WG1678061
Tetrachloroethene	U		0.00109	0.00305	1	05/26/2021 23:52	WG1678061
Toluene	U		0.00158	0.00609	1	05/26/2021 23:52	WG1678061
1,2,3-Trichlorobenzene	U		0.00893	0.0152	1	05/26/2021 23:52	WG1678061
1,2,4-Trichlorobenzene	U		0.00536	0.0152	1	05/26/2021 23:52	WG1678061
1,1,1-Trichloroethane	U		0.00112	0.00305	1	05/26/2021 23:52	WG1678061
1,1,2-Trichloroethane	U		0.000727	0.00305	1	05/26/2021 23:52	WG1678061
Trichloroethene	U		0.000712	0.00122	1	05/31/2021 11:40	WG1680309
Trichlorofluoromethane	U		0.00101	0.00305	1	05/26/2021 23:52	WG1678061
1,2,3-Trichloropropane	U		0.00197	0.0152	1	05/26/2021 23:52	WG1678061
1,2,4-Trimethylbenzene	U		0.00193	0.00609	1	05/26/2021 23:52	WG1678061
1,2,3-Trimethylbenzene	U		0.00193	0.00609	1	05/26/2021 23:52	WG1678061
1,3,5-Trimethylbenzene	U		0.00244	0.00609	1	05/26/2021 23:52	WG1678061
Vinyl acetate	U		0.00310	0.0152	1	05/26/2021 23:52	WG1678061
Vinyl chloride	U		0.00141	0.00305	1	05/26/2021 23:52	WG1678061
Xylenes, Total	U		0.00107	0.00792	1	05/26/2021 23:52	WG1678061
(S) Toluene-d8	*105*			*75.0-131*		*05/26/2021 23:52*	WG1678061
(S) Toluene-d8	*102*			*75.0-131*		*05/31/2021 11:40*	WG1680309
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*		*05/26/2021 23:52*	WG1678061
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*05/31/2021 11:40*	WG1680309
(S) 1,2-Dichloroethane-d4	*96.5*			*70.0-130*		*05/26/2021 23:52*	WG1678061
(S) 1,2-Dichloroethane-d4	*92.4*			*70.0-130*		*05/31/2021 11:40*	WG1680309

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.8		1	05/26/2021 10:05	WG1677074

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0445	0.0609	1	05/27/2021 00:11	WG1678061
Acrylonitrile	U		0.00440	0.0152	1	05/27/2021 00:11	WG1678061
Benzene	U		0.000569	0.00122	1	05/27/2021 00:11	WG1678061
Bromobenzene	U		0.00110	0.0152	1	05/27/2021 00:11	WG1678061
Bromodichloromethane	U		0.000884	0.00305	1	05/27/2021 00:11	WG1678061
Bromochloromethane	U		0.000687	0.00609	1	05/27/2021 00:11	WG1678061
Bromoform	U		0.00143	0.0305	1	05/27/2021 00:11	WG1678061
Bromomethane	U		0.00240	0.0152	1	05/27/2021 00:11	WG1678061
n-Butylbenzene	U		0.00640	0.0152	1	05/27/2021 00:11	WG1678061
sec-Butylbenzene	U		0.00351	0.0152	1	05/27/2021 00:11	WG1678061
tert-Butylbenzene	U		0.00238	0.00609	1	05/27/2021 00:11	WG1678061
Carbon disulfide	U		0.000853	0.0152	1	05/27/2021 00:11	WG1678061
Carbon tetrachloride	U		0.00109	0.00609	1	05/27/2021 00:11	WG1678061
Chlorobenzene	U		0.000256	0.00305	1	05/27/2021 00:11	WG1678061
Chlorodibromomethane	U		0.000746	0.00305	1	05/27/2021 00:11	WG1678061
Chloroethane	U		0.00207	0.00609	1	05/27/2021 00:11	WG1678061
Chloroform	U		0.00126	0.00305	1	05/27/2021 00:11	WG1678061
Chloromethane	U		0.00530	0.0152	1	05/27/2021 00:11	WG1678061
2-Chlorotoluene	U		0.00105	0.00305	1	05/27/2021 00:11	WG1678061
4-Chlorotoluene	U		0.000549	0.00609	1	05/27/2021 00:11	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00475	0.0305	1	05/27/2021 00:11	WG1678061
1,2-Dibromoethane	U		0.000790	0.00305	1	05/27/2021 00:11	WG1678061
Dibromomethane	U		0.000914	0.00609	1	05/27/2021 00:11	WG1678061
1,2-Dichlorobenzene	U		0.000518	0.00609	1	05/27/2021 00:11	WG1678061
1,3-Dichlorobenzene	U		0.000731	0.00609	1	05/27/2021 00:11	WG1678061
1,4-Dichlorobenzene	U		0.000853	0.00609	1	05/27/2021 00:11	WG1678061
Dichlorodifluoromethane	U		0.00196	0.00305	1	05/27/2021 00:11	WG1678061
1,1-Dichloroethane	U		0.000599	0.00305	1	05/27/2021 00:11	WG1678061
1,2-Dichloroethane	U		0.000791	0.00305	1	05/27/2021 00:11	WG1678061
1,1-Dichloroethene	U		0.000739	0.00305	1	05/27/2021 00:11	WG1678061
cis-1,2-Dichloroethene	U		0.000895	0.00305	1	05/27/2021 00:11	WG1678061
trans-1,2-Dichloroethene	U		0.00127	0.00609	1	05/27/2021 00:11	WG1678061
1,2-Dichloropropane	U		0.00173	0.00609	1	05/27/2021 00:11	WG1678061
1,1-Dichloropropene	U		0.000986	0.00305	1	05/27/2021 00:11	WG1678061
1,3-Dichloropropane	U		0.000611	0.00609	1	05/27/2021 00:11	WG1678061
cis-1,3-Dichloropropene	U		0.000923	0.00305	1	05/27/2021 00:11	WG1678061
trans-1,3-Dichloropropene	U		0.00139	0.00609	1	05/27/2021 00:11	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00227	0.00609	1	05/27/2021 00:11	WG1678061
2,2-Dichloropropane	U		0.00168	0.00305	1	05/27/2021 00:11	WG1678061
Di-isopropyl ether	U		0.000500	0.00122	1	05/27/2021 00:11	WG1678061
Ethylbenzene	U		0.000898	0.00305	1	05/27/2021 00:11	WG1678061
Hexachloro-1,3-butadiene	U		0.00731	0.0305	1	05/27/2021 00:11	WG1678061
2-Hexanone	U		0.00410	0.0305	1	05/27/2021 00:11	WG1678061
n-Hexane	U		0.00275	0.00609	1	05/27/2021 00:11	WG1678061
Iodomethane	U		0.00283	0.0152	1	05/27/2021 00:11	WG1678061
Isopropylbenzene	U		0.000518	0.00305	1	05/27/2021 00:11	WG1678061
p-Isopropyltoluene	U		0.00311	0.00609	1	05/27/2021 00:11	WG1678061
2-Butanone (MEK)	U		0.0774	0.122	1	05/27/2021 00:11	WG1678061
Methylene Chloride	U		0.00809	0.0305	1	05/27/2021 00:11	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00278	0.0305	1	05/27/2021 00:11	WG1678061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000427	0.00122	1	05/27/2021 00:11	WG1678061
Naphthalene	U		0.00595	0.0152	1	05/27/2021 00:11	WG1678061
n-Propylbenzene	U		0.00116	0.00609	1	05/27/2021 00:11	WG1678061
Styrene	U		0.000279	0.0152	1	05/27/2021 00:11	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00116	0.00305	1	05/27/2021 00:11	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000847	0.00305	1	05/27/2021 00:11	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000919	0.00305	1	05/27/2021 00:11	WG1678061
Tetrachloroethene	U		0.00109	0.00305	1	05/27/2021 00:11	WG1678061
Toluene	0.00160	J	0.00158	0.00609	1	05/27/2021 00:11	WG1678061
1,2,3-Trichlorobenzene	U		0.00893	0.0152	1	05/27/2021 00:11	WG1678061
1,2,4-Trichlorobenzene	U		0.00536	0.0152	1	05/27/2021 00:11	WG1678061
1,1,1-Trichloroethane	U		0.00113	0.00305	1	05/27/2021 00:11	WG1678061
1,1,2-Trichloroethane	U		0.000728	0.00305	1	05/27/2021 00:11	WG1678061
Trichloroethene	U		0.000712	0.00122	1	05/31/2021 11:59	WG1680309
Trichlorofluoromethane	U		0.00101	0.00305	1	05/27/2021 00:11	WG1678061
1,2,3-Trichloropropane	U		0.00197	0.0152	1	05/27/2021 00:11	WG1678061
1,2,4-Trimethylbenzene	U		0.00193	0.00609	1	05/27/2021 00:11	WG1678061
1,2,3-Trimethylbenzene	U		0.00193	0.00609	1	05/27/2021 00:11	WG1678061
1,3,5-Trimethylbenzene	U		0.00244	0.00609	1	05/27/2021 00:11	WG1678061
Vinyl acetate	U		0.00310	0.0152	1	05/27/2021 00:11	WG1678061
Vinyl chloride	U		0.00141	0.00305	1	05/27/2021 00:11	WG1678061
Xylenes, Total	0.00126	J	0.00107	0.00792	1	05/27/2021 00:11	WG1678061
(S) Toluene-d8	*100*			*75.0-131*		*05/27/2021 00:11*	WG1678061
(S) Toluene-d8	*102*			*75.0-131*		*05/31/2021 11:59*	WG1680309
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*05/27/2021 00:11*	WG1678061
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*05/31/2021 11:59*	WG1680309
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*		*05/27/2021 00:11*	WG1678061
(S) 1,2-Dichloroethane-d4	*92.0*			*70.0-130*		*05/31/2021 11:59*	WG1680309

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.5		1	05/26/2021 10:05	WG1677074

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0458	0.0627	1	05/27/2021 00:30	WG1678061
Acrylonitrile	U		0.00453	0.0157	1	05/27/2021 00:30	WG1678061
Benzene	U		0.000586	0.00125	1	05/27/2021 00:30	WG1678061
Bromobenzene	U		0.00113	0.0157	1	05/27/2021 00:30	WG1678061
Bromodichloromethane	U		0.000910	0.00314	1	05/27/2021 00:30	WG1678061
Bromochloromethane	U		0.000708	0.00627	1	05/27/2021 00:30	WG1678061
Bromoform	U		0.00147	0.0314	1	05/27/2021 00:30	WG1678061
Bromomethane	U		0.00247	0.0157	1	05/27/2021 00:30	WG1678061
n-Butylbenzene	U		0.00659	0.0157	1	05/27/2021 00:30	WG1678061
sec-Butylbenzene	U		0.00361	0.0157	1	05/27/2021 00:30	WG1678061
tert-Butylbenzene	U		0.00245	0.00627	1	05/27/2021 00:30	WG1678061
Carbon disulfide	U		0.000878	0.0157	1	05/27/2021 00:30	WG1678061
Carbon tetrachloride	U		0.00113	0.00627	1	05/27/2021 00:30	WG1678061
Chlorobenzene	U		0.000263	0.00314	1	05/27/2021 00:30	WG1678061
Chlorodibromomethane	U		0.000768	0.00314	1	05/27/2021 00:30	WG1678061
Chloroethane	U		0.00213	0.00627	1	05/27/2021 00:30	WG1678061
Chloroform	U		0.00129	0.00314	1	05/27/2021 00:30	WG1678061
Chloromethane	U		0.00546	0.0157	1	05/27/2021 00:30	WG1678061
2-Chlorotoluene	U		0.00109	0.00314	1	05/27/2021 00:30	WG1678061
4-Chlorotoluene	U		0.000565	0.00627	1	05/27/2021 00:30	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00489	0.0314	1	05/27/2021 00:30	WG1678061
1,2-Dibromoethane	U		0.000813	0.00314	1	05/27/2021 00:30	WG1678061
Dibromomethane	U		0.000941	0.00627	1	05/27/2021 00:30	WG1678061
1,2-Dichlorobenzene	U		0.000533	0.00627	1	05/27/2021 00:30	WG1678061
1,3-Dichlorobenzene	U		0.000753	0.00627	1	05/27/2021 00:30	WG1678061
1,4-Dichlorobenzene	U		0.000878	0.00627	1	05/27/2021 00:30	WG1678061
Dichlorodifluoromethane	U		0.00202	0.00314	1	05/27/2021 00:30	WG1678061
1,1-Dichloroethane	U		0.000616	0.00314	1	05/27/2021 00:30	WG1678061
1,2-Dichloroethane	U		0.000814	0.00314	1	05/27/2021 00:30	WG1678061
1,1-Dichloroethene	U		0.000760	0.00314	1	05/27/2021 00:30	WG1678061
cis-1,2-Dichloroethene	0.00213	J	0.000921	0.00314	1	05/27/2021 00:30	WG1678061
trans-1,2-Dichloroethene	U		0.00130	0.00627	1	05/27/2021 00:30	WG1678061
1,2-Dichloropropane	U		0.00178	0.00627	1	05/27/2021 00:30	WG1678061
1,1-Dichloropropene	U		0.00101	0.00314	1	05/27/2021 00:30	WG1678061
1,3-Dichloropropane	U		0.000629	0.00627	1	05/27/2021 00:30	WG1678061
cis-1,3-Dichloropropene	U		0.000950	0.00314	1	05/27/2021 00:30	WG1678061
trans-1,3-Dichloropropene	U		0.00143	0.00627	1	05/27/2021 00:30	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00233	0.00627	1	05/27/2021 00:30	WG1678061
2,2-Dichloropropane	U		0.00173	0.00314	1	05/27/2021 00:30	WG1678061
Di-isopropyl ether	U		0.000514	0.00125	1	05/27/2021 00:30	WG1678061
Ethylbenzene	U		0.000925	0.00314	1	05/27/2021 00:30	WG1678061
Hexachloro-1,3-butadiene	U		0.00753	0.0314	1	05/27/2021 00:30	WG1678061
2-Hexanone	U		0.00422	0.0314	1	05/27/2021 00:30	WG1678061
n-Hexane	U		0.00284	0.00627	1	05/27/2021 00:30	WG1678061
Iodomethane	U		0.00291	0.0157	1	05/27/2021 00:30	WG1678061
Isopropylbenzene	U		0.000533	0.00314	1	05/27/2021 00:30	WG1678061
p-Isopropyltoluene	U		0.00320	0.00627	1	05/27/2021 00:30	WG1678061
2-Butanone (MEK)	U		0.0797	0.125	1	05/27/2021 00:30	WG1678061
Methylene Chloride	U		0.00833	0.0314	1	05/27/2021 00:30	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00286	0.0314	1	05/27/2021 00:30	WG1678061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000439	0.00125	1	05/27/2021 00:30	WG1678061
Naphthalene	U		0.00612	0.0157	1	05/27/2021 00:30	WG1678061
n-Propylbenzene	U		0.00119	0.00627	1	05/27/2021 00:30	WG1678061
Styrene	U		0.000287	0.0157	1	05/27/2021 00:30	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00119	0.00314	1	05/27/2021 00:30	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000872	0.00314	1	05/27/2021 00:30	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000946	0.00314	1	05/27/2021 00:30	WG1678061
Tetrachloroethene	U		0.00112	0.00314	1	05/27/2021 00:30	WG1678061
Toluene	0.00396	J	0.00163	0.00627	1	05/27/2021 00:30	WG1678061
1,2,3-Trichlorobenzene	U		0.00920	0.0157	1	05/27/2021 00:30	WG1678061
1,2,4-Trichlorobenzene	U		0.00552	0.0157	1	05/27/2021 00:30	WG1678061
1,1,1-Trichloroethane	U		0.00116	0.00314	1	05/27/2021 00:30	WG1678061
1,1,2-Trichloroethane	U		0.000749	0.00314	1	05/27/2021 00:30	WG1678061
Trichloroethene	U		0.000733	0.00125	1	05/31/2021 12:18	WG1680309
Trichlorofluoromethane	U		0.00104	0.00314	1	05/27/2021 00:30	WG1678061
1,2,3-Trichloropropane	U		0.00203	0.0157	1	05/27/2021 00:30	WG1678061
1,2,4-Trimethylbenzene	U		0.00198	0.00627	1	05/27/2021 00:30	WG1678061
1,2,3-Trimethylbenzene	U		0.00198	0.00627	1	05/27/2021 00:30	WG1678061
1,3,5-Trimethylbenzene	U		0.00251	0.00627	1	05/27/2021 00:30	WG1678061
Vinyl acetate	U		0.00319	0.0157	1	05/27/2021 00:30	WG1678061
Vinyl chloride	U		0.00146	0.00314	1	05/27/2021 00:30	WG1678061
Xylenes, Total	U		0.00110	0.00816	1	05/27/2021 00:30	WG1678061
(S) Toluene-d8	*105*			*75.0-131*		*05/27/2021 00:30*	WG1678061
(S) Toluene-d8	*98.8*			*75.0-131*		*05/31/2021 12:18*	WG1680309
(S) 4-Bromofluorobenzene	*96.5*			*67.0-138*		*05/27/2021 00:30*	WG1678061
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*05/31/2021 12:18*	WG1680309
(S) 1,2-Dichloroethane-d4	*93.1*			*70.0-130*		*05/27/2021 00:30*	WG1678061
(S) 1,2-Dichloroethane-d4	*94.7*			*70.0-130*		*05/31/2021 12:18*	WG1680309

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.0		1	05/26/2021 10:05	WG1677074

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0467	0.0640	1	05/27/2021 00:49	WG1678061
Acrylonitrile	U		0.00462	0.0160	1	05/27/2021 00:49	WG1678061
Benzene	U		0.000598	0.00128	1	05/27/2021 00:49	WG1678061
Bromobenzene	U		0.00115	0.0160	1	05/27/2021 00:49	WG1678061
Bromodichloromethane	U		0.000928	0.00320	1	05/27/2021 00:49	WG1678061
Bromochloromethane	U		0.000722	0.00640	1	05/27/2021 00:49	WG1678061
Bromoform	U		0.00150	0.0320	1	05/27/2021 00:49	WG1678061
Bromomethane	U		0.00252	0.0160	1	05/27/2021 00:49	WG1678061
n-Butylbenzene	U		0.00672	0.0160	1	05/27/2021 00:49	WG1678061
sec-Butylbenzene	U		0.00369	0.0160	1	05/27/2021 00:49	WG1678061
tert-Butylbenzene	U		0.00250	0.00640	1	05/27/2021 00:49	WG1678061
Carbon disulfide	U		0.000896	0.0160	1	05/27/2021 00:49	WG1678061
Carbon tetrachloride	U		0.00115	0.00640	1	05/27/2021 00:49	WG1678061
Chlorobenzene	U		0.000269	0.00320	1	05/27/2021 00:49	WG1678061
Chlorodibromomethane	U		0.000784	0.00320	1	05/27/2021 00:49	WG1678061
Chloroethane	U		0.00218	0.00640	1	05/27/2021 00:49	WG1678061
Chloroform	U		0.00132	0.00320	1	05/27/2021 00:49	WG1678061
Chloromethane	U		0.00557	0.0160	1	05/27/2021 00:49	WG1678061
2-Chlorotoluene	U		0.00111	0.00320	1	05/27/2021 00:49	WG1678061
4-Chlorotoluene	U		0.000576	0.00640	1	05/27/2021 00:49	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00499	0.0320	1	05/27/2021 00:49	WG1678061
1,2-Dibromoethane	U		0.000830	0.00320	1	05/27/2021 00:49	WG1678061
Dibromomethane	U		0.000961	0.00640	1	05/27/2021 00:49	WG1678061
1,2-Dichlorobenzene	U		0.000544	0.00640	1	05/27/2021 00:49	WG1678061
1,3-Dichlorobenzene	U		0.000768	0.00640	1	05/27/2021 00:49	WG1678061
1,4-Dichlorobenzene	U		0.000896	0.00640	1	05/27/2021 00:49	WG1678061
Dichlorodifluoromethane	U		0.00206	0.00320	1	05/27/2021 00:49	WG1678061
1,1-Dichloroethane	U		0.000629	0.00320	1	05/27/2021 00:49	WG1678061
1,2-Dichloroethane	U		0.000831	0.00320	1	05/27/2021 00:49	WG1678061
1,1-Dichloroethene	U		0.000776	0.00320	1	05/27/2021 00:49	WG1678061
cis-1,2-Dichloroethene	0.572		0.000940	0.00320	1	05/27/2021 00:49	WG1678061
trans-1,2-Dichloroethene	U		0.00133	0.00640	1	05/27/2021 00:49	WG1678061
1,2-Dichloropropane	U		0.00182	0.00640	1	05/27/2021 00:49	WG1678061
1,1-Dichloropropene	U		0.00104	0.00320	1	05/27/2021 00:49	WG1678061
1,3-Dichloropropane	U		0.000642	0.00640	1	05/27/2021 00:49	WG1678061
cis-1,3-Dichloropropene	U		0.000969	0.00320	1	05/27/2021 00:49	WG1678061
trans-1,3-Dichloropropene	U		0.00146	0.00640	1	05/27/2021 00:49	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00238	0.00640	1	05/27/2021 00:49	WG1678061
2,2-Dichloropropane	U		0.00177	0.00320	1	05/27/2021 00:49	WG1678061
Di-isopropyl ether	U		0.000525	0.00128	1	05/27/2021 00:49	WG1678061
Ethylbenzene	U		0.000944	0.00320	1	05/27/2021 00:49	WG1678061
Hexachloro-1,3-butadiene	U		0.00768	0.0320	1	05/27/2021 00:49	WG1678061
2-Hexanone	U		0.00430	0.0320	1	05/27/2021 00:49	WG1678061
n-Hexane	U		0.00289	0.00640	1	05/27/2021 00:49	WG1678061
Iodomethane	U		0.00297	0.0160	1	05/27/2021 00:49	WG1678061
Isopropylbenzene	U		0.000544	0.00320	1	05/27/2021 00:49	WG1678061
p-Isopropyltoluene	U		0.00327	0.00640	1	05/27/2021 00:49	WG1678061
2-Butanone (MEK)	U		0.0813	0.128	1	05/27/2021 00:49	WG1678061
Methylene Chloride	U		0.00850	0.0320	1	05/27/2021 00:49	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00292	0.0320	1	05/27/2021 00:49	WG1678061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000448	0.00128	1	05/27/2021 00:49	WG1678061
Naphthalene	U		0.00625	0.0160	1	05/27/2021 00:49	WG1678061
n-Propylbenzene	U		0.00122	0.00640	1	05/27/2021 00:49	WG1678061
Styrene	U		0.000293	0.0160	1	05/27/2021 00:49	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00121	0.00320	1	05/27/2021 00:49	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000890	0.00320	1	05/27/2021 00:49	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000966	0.00320	1	05/27/2021 00:49	WG1678061
Tetrachloroethene	1.05		0.00115	0.00320	1	05/27/2021 00:49	WG1678061
Toluene	U		0.00166	0.00640	1	05/27/2021 00:49	WG1678061
1,2,3-Trichlorobenzene	U		0.00939	0.0160	1	05/27/2021 00:49	WG1678061
1,2,4-Trichlorobenzene	U		0.00563	0.0160	1	05/27/2021 00:49	WG1678061
1,1,1-Trichloroethane	U		0.00118	0.00320	1	05/27/2021 00:49	WG1678061
1,1,2-Trichloroethane	U		0.000765	0.00320	1	05/27/2021 00:49	WG1678061
Trichloroethene	0.209		0.000748	0.00128	1	05/27/2021 00:49	WG1678061
Trichlorofluoromethane	U		0.00106	0.00320	1	05/27/2021 00:49	WG1678061
1,2,3-Trichloropropane	U		0.00207	0.0160	1	05/27/2021 00:49	WG1678061
1,2,4-Trimethylbenzene	U		0.00202	0.00640	1	05/27/2021 00:49	WG1678061
1,2,3-Trimethylbenzene	U		0.00202	0.00640	1	05/27/2021 00:49	WG1678061
1,3,5-Trimethylbenzene	U		0.00256	0.00640	1	05/27/2021 00:49	WG1678061
Vinyl acetate	U		0.00325	0.0160	1	05/27/2021 00:49	WG1678061
Vinyl chloride	0.0752		0.00149	0.00320	1	05/27/2021 00:49	WG1678061
Xylenes, Total	U		0.00113	0.00832	1	05/27/2021 00:49	WG1678061
(S) Toluene-d8	*104*			*75.0-131*		*05/27/2021 00:49*	WG1678061
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*		*05/27/2021 00:49*	WG1678061
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*05/27/2021 00:49*	WG1678061

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.6		1	05/26/2021 10:05	WG1677074

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0470	0.0643	1	05/27/2021 01:08	WG1678061
Acrylonitrile	U		0.00465	0.0161	1	05/27/2021 01:08	WG1678061
Benzene	U		0.000601	0.00129	1	05/27/2021 01:08	WG1678061
Bromobenzene	U		0.00116	0.0161	1	05/27/2021 01:08	WG1678061
Bromodichloromethane	U		0.000933	0.00322	1	05/27/2021 01:08	WG1678061
Bromochloromethane	U		0.000726	0.00643	1	05/27/2021 01:08	WG1678061
Bromoform	U		0.00151	0.0322	1	05/27/2021 01:08	WG1678061
Bromomethane	U		0.00253	0.0161	1	05/27/2021 01:08	WG1678061
n-Butylbenzene	U		0.00676	0.0161	1	05/27/2021 01:08	WG1678061
sec-Butylbenzene	U		0.00371	0.0161	1	05/27/2021 01:08	WG1678061
tert-Butylbenzene	U		0.00251	0.00643	1	05/27/2021 01:08	WG1678061
Carbon disulfide	U		0.000901	0.0161	1	05/27/2021 01:08	WG1678061
Carbon tetrachloride	U		0.00116	0.00643	1	05/27/2021 01:08	WG1678061
Chlorobenzene	U		0.000270	0.00322	1	05/27/2021 01:08	WG1678061
Chlorodibromomethane	U		0.000787	0.00322	1	05/27/2021 01:08	WG1678061
Chloroethane	U		0.00219	0.00643	1	05/27/2021 01:08	WG1678061
Chloroform	U		0.00133	0.00322	1	05/27/2021 01:08	WG1678061
Chloromethane	U		0.00560	0.0161	1	05/27/2021 01:08	WG1678061
2-Chlorotoluene	U		0.00111	0.00322	1	05/27/2021 01:08	WG1678061
4-Chlorotoluene	U		0.000579	0.00643	1	05/27/2021 01:08	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00502	0.0322	1	05/27/2021 01:08	WG1678061
1,2-Dibromoethane	U		0.000834	0.00322	1	05/27/2021 01:08	WG1678061
Dibromomethane	U		0.000965	0.00643	1	05/27/2021 01:08	WG1678061
1,2-Dichlorobenzene	U		0.000547	0.00643	1	05/27/2021 01:08	WG1678061
1,3-Dichlorobenzene	U		0.000772	0.00643	1	05/27/2021 01:08	WG1678061
1,4-Dichlorobenzene	U		0.000901	0.00643	1	05/27/2021 01:08	WG1678061
Dichlorodifluoromethane	U		0.00207	0.00322	1	05/27/2021 01:08	WG1678061
1,1-Dichloroethane	U		0.000632	0.00322	1	05/27/2021 01:08	WG1678061
1,2-Dichloroethane	U		0.000835	0.00322	1	05/27/2021 01:08	WG1678061
1,1-Dichloroethene	0.00394		0.000780	0.00322	1	05/27/2021 01:08	WG1678061
cis-1,2-Dichloroethene	0.472		0.000944	0.00322	1	05/27/2021 01:08	WG1678061
trans-1,2-Dichloroethene	U		0.00134	0.00643	1	05/27/2021 01:08	WG1678061
1,2-Dichloropropane	U		0.00183	0.00643	1	05/27/2021 01:08	WG1678061
1,1-Dichloropropene	U		0.00104	0.00322	1	05/27/2021 01:08	WG1678061
1,3-Dichloropropane	U		0.000645	0.00643	1	05/27/2021 01:08	WG1678061
cis-1,3-Dichloropropene	U		0.000974	0.00322	1	05/27/2021 01:08	WG1678061
trans-1,3-Dichloropropene	U		0.00147	0.00643	1	05/27/2021 01:08	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00239	0.00643	1	05/27/2021 01:08	WG1678061
2,2-Dichloropropane	U		0.00178	0.00322	1	05/27/2021 01:08	WG1678061
Di-isopropyl ether	U		0.000528	0.00129	1	05/27/2021 01:08	WG1678061
Ethylbenzene	U		0.000948	0.00322	1	05/27/2021 01:08	WG1678061
Hexachloro-1,3-butadiene	U		0.00772	0.0322	1	05/27/2021 01:08	WG1678061
2-Hexanone	U		0.00432	0.0322	1	05/27/2021 01:08	WG1678061
n-Hexane	U		0.00291	0.00643	1	05/27/2021 01:08	WG1678061
Iodomethane	U		0.00299	0.0161	1	05/27/2021 01:08	WG1678061
Isopropylbenzene	U		0.000547	0.00322	1	05/27/2021 01:08	WG1678061
p-Isopropyltoluene	U		0.00328	0.00643	1	05/27/2021 01:08	WG1678061
2-Butanone (MEK)	U		0.0817	0.129	1	05/27/2021 01:08	WG1678061
Methylene Chloride	U		0.00854	0.0322	1	05/27/2021 01:08	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00293	0.0322	1	05/27/2021 01:08	WG1678061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000450	0.00129	1	05/27/2021 01:08	WG1678061
Naphthalene	U		0.00628	0.0161	1	05/27/2021 01:08	WG1678061
n-Propylbenzene	U		0.00122	0.00643	1	05/27/2021 01:08	WG1678061
Styrene	U		0.000295	0.0161	1	05/27/2021 01:08	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00122	0.00322	1	05/27/2021 01:08	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000894	0.00322	1	05/27/2021 01:08	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000970	0.00322	1	05/27/2021 01:08	WG1678061
Tetrachloroethene	2.48		0.00115	0.00322	1	05/27/2021 01:08	WG1678061
Toluene	U		0.00167	0.00643	1	05/27/2021 01:08	WG1678061
1,2,3-Trichlorobenzene	U		0.00943	0.0161	1	05/27/2021 01:08	WG1678061
1,2,4-Trichlorobenzene	U		0.00566	0.0161	1	05/27/2021 01:08	WG1678061
1,1,1-Trichloroethane	U		0.00119	0.00322	1	05/27/2021 01:08	WG1678061
1,1,2-Trichloroethane	U		0.000768	0.00322	1	05/27/2021 01:08	WG1678061
Trichloroethene	0.421		0.000751	0.00129	1	05/27/2021 01:08	WG1678061
Trichlorofluoromethane	U		0.00106	0.00322	1	05/27/2021 01:08	WG1678061
1,2,3-Trichloropropane	U		0.00208	0.0161	1	05/27/2021 01:08	WG1678061
1,2,4-Trimethylbenzene	U		0.00203	0.00643	1	05/27/2021 01:08	WG1678061
1,2,3-Trimethylbenzene	U		0.00203	0.00643	1	05/27/2021 01:08	WG1678061
1,3,5-Trimethylbenzene	U		0.00257	0.00643	1	05/27/2021 01:08	WG1678061
Vinyl acetate	U		0.00327	0.0161	1	05/27/2021 01:08	WG1678061
Vinyl chloride	0.0668		0.00149	0.00322	1	05/27/2021 01:08	WG1678061
Xylenes, Total	U		0.00113	0.00836	1	05/27/2021 01:08	WG1678061
(S) Toluene-d8	*104*			*75.0-131*		*05/27/2021 01:08*	WG1678061
(S) 4-Bromofluorobenzene	*96.1*			*67.0-138*		*05/27/2021 01:08*	WG1678061
(S) 1,2-Dichloroethane-d4	*95.2*			*70.0-130*		*05/27/2021 01:08*	WG1678061

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.3		1	05/26/2021 10:05	WG1677074

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0422	0.0579	1	05/27/2021 01:26	WG1678061
Acrylonitrile	U		0.00418	0.0145	1	05/27/2021 01:26	WG1678061
Benzene	U		0.000540	0.00116	1	05/27/2021 01:26	WG1678061
Bromobenzene	U		0.00104	0.0145	1	05/27/2021 01:26	WG1678061
Bromodichloromethane	U		0.000839	0.00289	1	05/27/2021 01:26	WG1678061
Bromochloromethane	U		0.000653	0.00579	1	05/27/2021 01:26	WG1678061
Bromoform	U		0.00135	0.0289	1	05/27/2021 01:26	WG1678061
Bromomethane	U		0.00228	0.0145	1	05/27/2021 01:26	WG1678061
n-Butylbenzene	U		0.00608	0.0145	1	05/27/2021 01:26	WG1678061
sec-Butylbenzene	U		0.00333	0.0145	1	05/27/2021 01:26	WG1678061
tert-Butylbenzene	U		0.00226	0.00579	1	05/27/2021 01:26	WG1678061
Carbon disulfide	U		0.000810	0.0145	1	05/27/2021 01:26	WG1678061
Carbon tetrachloride	U		0.00104	0.00579	1	05/27/2021 01:26	WG1678061
Chlorobenzene	U		0.000243	0.00289	1	05/27/2021 01:26	WG1678061
Chlorodibromomethane	U		0.000708	0.00289	1	05/27/2021 01:26	WG1678061
Chloroethane	U		0.00197	0.00579	1	05/27/2021 01:26	WG1678061
Chloroform	U		0.00119	0.00289	1	05/27/2021 01:26	WG1678061
Chloromethane	U		0.00503	0.0145	1	05/27/2021 01:26	WG1678061
2-Chlorotoluene	U		0.00100	0.00289	1	05/27/2021 01:26	WG1678061
4-Chlorotoluene	U		0.000521	0.00579	1	05/27/2021 01:26	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00451	0.0289	1	05/27/2021 01:26	WG1678061
1,2-Dibromoethane	U		0.000750	0.00289	1	05/27/2021 01:26	WG1678061
Dibromomethane	U		0.000868	0.00579	1	05/27/2021 01:26	WG1678061
1,2-Dichlorobenzene	U		0.000492	0.00579	1	05/27/2021 01:26	WG1678061
1,3-Dichlorobenzene	U		0.000694	0.00579	1	05/27/2021 01:26	WG1678061
1,4-Dichlorobenzene	U		0.000810	0.00579	1	05/27/2021 01:26	WG1678061
Dichlorodifluoromethane	U		0.00186	0.00289	1	05/27/2021 01:26	WG1678061
1,1-Dichloroethane	U		0.000568	0.00289	1	05/27/2021 01:26	WG1678061
1,2-Dichloroethane	U		0.000751	0.00289	1	05/27/2021 01:26	WG1678061
1,1-Dichloroethene	U		0.000701	0.00289	1	05/27/2021 01:26	WG1678061
cis-1,2-Dichloroethene	0.0299		0.000849	0.00289	1	05/27/2021 01:26	WG1678061
trans-1,2-Dichloroethene	U		0.00120	0.00579	1	05/27/2021 01:26	WG1678061
1,2-Dichloropropane	U		0.00164	0.00579	1	05/27/2021 01:26	WG1678061
1,1-Dichloropropene	U		0.000936	0.00289	1	05/27/2021 01:26	WG1678061
1,3-Dichloropropane	U		0.000580	0.00579	1	05/27/2021 01:26	WG1678061
cis-1,3-Dichloropropene	U		0.000876	0.00289	1	05/27/2021 01:26	WG1678061
trans-1,3-Dichloropropene	U		0.00132	0.00579	1	05/27/2021 01:26	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00215	0.00579	1	05/27/2021 01:26	WG1678061
2,2-Dichloropropane	U		0.00160	0.00289	1	05/27/2021 01:26	WG1678061
Di-isopropyl ether	U		0.000474	0.00116	1	05/27/2021 01:26	WG1678061
Ethylbenzene	U		0.000853	0.00289	1	05/27/2021 01:26	WG1678061
Hexachloro-1,3-butadiene	U		0.00694	0.0289	1	05/27/2021 01:26	WG1678061
2-Hexanone	U		0.00389	0.0289	1	05/27/2021 01:26	WG1678061
n-Hexane	U		0.00262	0.00579	1	05/27/2021 01:26	WG1678061
Iodomethane	U		0.00268	0.0145	1	05/27/2021 01:26	WG1678061
Isopropylbenzene	U		0.000492	0.00289	1	05/27/2021 01:26	WG1678061
p-Isopropyltoluene	U		0.00295	0.00579	1	05/27/2021 01:26	WG1678061
2-Butanone (MEK)	U		0.0735	0.116	1	05/27/2021 01:26	WG1678061
Methylene Chloride	U		0.00768	0.0289	1	05/27/2021 01:26	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00264	0.0289	1	05/27/2021 01:26	WG1678061

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000405	0.00116	1	05/27/2021 01:26	WG1678061
Naphthalene	U		0.00565	0.0145	1	05/27/2021 01:26	WG1678061
n-Propylbenzene	U		0.00110	0.00579	1	05/27/2021 01:26	WG1678061
Styrene	U		0.000265	0.0145	1	05/27/2021 01:26	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00110	0.00289	1	05/27/2021 01:26	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000804	0.00289	1	05/27/2021 01:26	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000873	0.00289	1	05/27/2021 01:26	WG1678061
Tetrachloroethene	0.0324		0.00104	0.00289	1	05/27/2021 01:26	WG1678061
Toluene	U		0.00150	0.00579	1	05/27/2021 01:26	WG1678061
1,2,3-Trichlorobenzene	U		0.00848	0.0145	1	05/27/2021 01:26	WG1678061
1,2,4-Trichlorobenzene	U		0.00509	0.0145	1	05/27/2021 01:26	WG1678061
1,1,1-Trichloroethane	U		0.00107	0.00289	1	05/27/2021 01:26	WG1678061
1,1,2-Trichloroethane	U		0.000691	0.00289	1	05/27/2021 01:26	WG1678061
Trichloroethene	0.00636		0.000676	0.00116	1	05/27/2021 01:26	WG1678061
Trichlorofluoromethane	U		0.000957	0.00289	1	05/27/2021 01:26	WG1678061
1,2,3-Trichloropropane	U		0.00187	0.0145	1	05/27/2021 01:26	WG1678061
1,2,4-Trimethylbenzene	U		0.00183	0.00579	1	05/27/2021 01:26	WG1678061
1,2,3-Trimethylbenzene	U		0.00183	0.00579	1	05/27/2021 01:26	WG1678061
1,3,5-Trimethylbenzene	U		0.00231	0.00579	1	05/27/2021 01:26	WG1678061
Vinyl acetate	U		0.00294	0.0145	1	05/27/2021 01:26	WG1678061
Vinyl chloride	0.00172	J	0.00134	0.00289	1	05/27/2021 01:26	WG1678061
Xylenes, Total	U		0.00102	0.00752	1	05/27/2021 01:26	WG1678061
(S) Toluene-d8	*106*			*75.0-131*		*05/27/2021 01:26*	WG1678061
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*		*05/27/2021 01:26*	WG1678061
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*05/27/2021 01:26*	WG1678061

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.6		1	05/26/2021 10:05	WG1677074

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0421	0.0576	1	05/27/2021 01:45	WG1678061
Acrylonitrile	U		0.00416	0.0144	1	05/27/2021 01:45	WG1678061
Benzene	U		0.000538	0.00115	1	05/27/2021 01:45	WG1678061
Bromobenzene	U		0.00104	0.0144	1	05/27/2021 01:45	WG1678061
Bromodichloromethane	U		0.000835	0.00288	1	05/27/2021 01:45	WG1678061
Bromochloromethane	U		0.000650	0.00576	1	05/27/2021 01:45	WG1678061
Bromoform	U		0.00135	0.0288	1	05/27/2021 01:45	WG1678061
Bromomethane	U		0.00227	0.0144	1	05/27/2021 01:45	WG1678061
n-Butylbenzene	U		0.00605	0.0144	1	05/27/2021 01:45	WG1678061
sec-Butylbenzene	U		0.00332	0.0144	1	05/27/2021 01:45	WG1678061
tert-Butylbenzene	U		0.00225	0.00576	1	05/27/2021 01:45	WG1678061
Carbon disulfide	U		0.000806	0.0144	1	05/27/2021 01:45	WG1678061
Carbon tetrachloride	U		0.00103	0.00576	1	05/27/2021 01:45	WG1678061
Chlorobenzene	U		0.000242	0.00288	1	05/27/2021 01:45	WG1678061
Chlorodibromomethane	U		0.000705	0.00288	1	05/27/2021 01:45	WG1678061
Chloroethane	U		0.00196	0.00576	1	05/27/2021 01:45	WG1678061
Chloroform	U		0.00119	0.00288	1	05/27/2021 01:45	WG1678061
Chloromethane	U		0.00501	0.0144	1	05/27/2021 01:45	WG1678061
2-Chlorotoluene	U		0.000997	0.00288	1	05/27/2021 01:45	WG1678061
4-Chlorotoluene	U		0.000518	0.00576	1	05/27/2021 01:45	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00449	0.0288	1	05/27/2021 01:45	WG1678061
1,2-Dibromoethane	U		0.000747	0.00288	1	05/27/2021 01:45	WG1678061
Dibromomethane	U		0.000864	0.00576	1	05/27/2021 01:45	WG1678061
1,2-Dichlorobenzene	U		0.000490	0.00576	1	05/27/2021 01:45	WG1678061
1,3-Dichlorobenzene	U		0.000691	0.00576	1	05/27/2021 01:45	WG1678061
1,4-Dichlorobenzene	U		0.000806	0.00576	1	05/27/2021 01:45	WG1678061
Dichlorodifluoromethane	U		0.00185	0.00288	1	05/27/2021 01:45	WG1678061
1,1-Dichloroethane	U		0.000566	0.00288	1	05/27/2021 01:45	WG1678061
1,2-Dichloroethane	U		0.000748	0.00288	1	05/27/2021 01:45	WG1678061
1,1-Dichloroethene	U		0.000698	0.00288	1	05/27/2021 01:45	WG1678061
cis-1,2-Dichloroethene	0.0190		0.000846	0.00288	1	05/27/2021 01:45	WG1678061
trans-1,2-Dichloroethene	U		0.00120	0.00576	1	05/27/2021 01:45	WG1678061
1,2-Dichloropropane	U		0.00164	0.00576	1	05/27/2021 01:45	WG1678061
1,1-Dichloropropene	U		0.000932	0.00288	1	05/27/2021 01:45	WG1678061
1,3-Dichloropropane	U		0.000577	0.00576	1	05/27/2021 01:45	WG1678061
cis-1,3-Dichloropropene	U		0.000872	0.00288	1	05/27/2021 01:45	WG1678061
trans-1,3-Dichloropropene	U		0.00131	0.00576	1	05/27/2021 01:45	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00214	0.00576	1	05/27/2021 01:45	WG1678061
2,2-Dichloropropane	U		0.00159	0.00288	1	05/27/2021 01:45	WG1678061
Di-isopropyl ether	U		0.000472	0.00115	1	05/27/2021 01:45	WG1678061
Ethylbenzene	U		0.000849	0.00288	1	05/27/2021 01:45	WG1678061
Hexachloro-1,3-butadiene	U		0.00691	0.0288	1	05/27/2021 01:45	WG1678061
2-Hexanone	U		0.00387	0.0288	1	05/27/2021 01:45	WG1678061
n-Hexane	U		0.00260	0.00576	1	05/27/2021 01:45	WG1678061
Iodomethane	U		0.00267	0.0144	1	05/27/2021 01:45	WG1678061
Isopropylbenzene	U		0.000490	0.00288	1	05/27/2021 01:45	WG1678061
p-Isopropyltoluene	U		0.00294	0.00576	1	05/27/2021 01:45	WG1678061
2-Butanone (MEK)	U		0.0732	0.115	1	05/27/2021 01:45	WG1678061
Methylene Chloride	U		0.00765	0.0288	1	05/27/2021 01:45	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00263	0.0288	1	05/27/2021 01:45	WG1678061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000403	0.00115	1	05/27/2021 01:45	WG1678061
Naphthalene	U		0.00562	0.0144	1	05/27/2021 01:45	WG1678061
n-Propylbenzene	U		0.00109	0.00576	1	05/27/2021 01:45	WG1678061
Styrene	U		0.000264	0.0144	1	05/27/2021 01:45	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00109	0.00288	1	05/27/2021 01:45	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000801	0.00288	1	05/27/2021 01:45	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000869	0.00288	1	05/27/2021 01:45	WG1678061
Tetrachloroethene	0.00803		0.00103	0.00288	1	05/27/2021 01:45	WG1678061
Toluene	0.00157	J	0.00150	0.00576	1	05/27/2021 01:45	WG1678061
1,2,3-Trichlorobenzene	U		0.00844	0.0144	1	05/27/2021 01:45	WG1678061
1,2,4-Trichlorobenzene	U		0.00507	0.0144	1	05/27/2021 01:45	WG1678061
1,1,1-Trichloroethane	U		0.00106	0.00288	1	05/27/2021 01:45	WG1678061
1,1,2-Trichloroethane	U		0.000688	0.00288	1	05/27/2021 01:45	WG1678061
Trichloroethene	0.00294		0.000673	0.00115	1	05/27/2021 01:45	WG1678061
Trichlorofluoromethane	U		0.000953	0.00288	1	05/27/2021 01:45	WG1678061
1,2,3-Trichloropropane	U		0.00187	0.0144	1	05/27/2021 01:45	WG1678061
1,2,4-Trimethylbenzene	U		0.00182	0.00576	1	05/27/2021 01:45	WG1678061
1,2,3-Trimethylbenzene	U		0.00182	0.00576	1	05/27/2021 01:45	WG1678061
1,3,5-Trimethylbenzene	U		0.00230	0.00576	1	05/27/2021 01:45	WG1678061
Vinyl acetate	U		0.00293	0.0144	1	05/27/2021 01:45	WG1678061
Vinyl chloride	U		0.00134	0.00288	1	05/27/2021 01:45	WG1678061
Xylenes, Total	0.00123	J	0.00101	0.00749	1	05/27/2021 01:45	WG1678061
(S) Toluene-d8	*105*			*75.0-131*		*05/27/2021 01:45*	WG1678061
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*		*05/27/2021 01:45*	WG1678061
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*		*05/27/2021 01:45*	WG1678061

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	05/26/2021 10:05	WG1677074

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0469	0.0643	1	05/27/2021 02:04	WG1678061
Acrylonitrile	U		0.00464	0.0161	1	05/27/2021 02:04	WG1678061
Benzene	U		0.000600	0.00129	1	05/27/2021 02:04	WG1678061
Bromobenzene	U		0.00116	0.0161	1	05/27/2021 02:04	WG1678061
Bromodichloromethane	U		0.000932	0.00321	1	05/27/2021 02:04	WG1678061
Bromochloromethane	U		0.000725	0.00643	1	05/27/2021 02:04	WG1678061
Bromoform	U		0.00150	0.0321	1	05/27/2021 02:04	WG1678061
Bromomethane	U		0.00253	0.0161	1	05/27/2021 02:04	WG1678061
n-Butylbenzene	U		0.00675	0.0161	1	05/27/2021 02:04	WG1678061
sec-Butylbenzene	U		0.00370	0.0161	1	05/27/2021 02:04	WG1678061
tert-Butylbenzene	U		0.00251	0.00643	1	05/27/2021 02:04	WG1678061
Carbon disulfide	U		0.000900	0.0161	1	05/27/2021 02:04	WG1678061
Carbon tetrachloride	U		0.00115	0.00643	1	05/27/2021 02:04	WG1678061
Chlorobenzene	U		0.000270	0.00321	1	05/27/2021 02:04	WG1678061
Chlorodibromomethane	U		0.000786	0.00321	1	05/27/2021 02:04	WG1678061
Chloroethane	U		0.00218	0.00643	1	05/27/2021 02:04	WG1678061
Chloroform	U		0.00132	0.00321	1	05/27/2021 02:04	WG1678061
Chloromethane	U		0.00559	0.0161	1	05/27/2021 02:04	WG1678061
2-Chlorotoluene	U		0.00111	0.00321	1	05/27/2021 02:04	WG1678061
4-Chlorotoluene	U		0.000578	0.00643	1	05/27/2021 02:04	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00501	0.0321	1	05/27/2021 02:04	WG1678061
1,2-Dibromoethane	U		0.000833	0.00321	1	05/27/2021 02:04	WG1678061
Dibromomethane	U		0.000964	0.00643	1	05/27/2021 02:04	WG1678061
1,2-Dichlorobenzene	U		0.000546	0.00643	1	05/27/2021 02:04	WG1678061
1,3-Dichlorobenzene	U		0.000771	0.00643	1	05/27/2021 02:04	WG1678061
1,4-Dichlorobenzene	U		0.000900	0.00643	1	05/27/2021 02:04	WG1678061
Dichlorodifluoromethane	U		0.00207	0.00321	1	05/27/2021 02:04	WG1678061
1,1-Dichloroethane	U		0.000631	0.00321	1	05/27/2021 02:04	WG1678061
1,2-Dichloroethane	U		0.000834	0.00321	1	05/27/2021 02:04	WG1678061
1,1-Dichloroethene	0.0173		0.000779	0.00321	1	05/27/2021 02:04	WG1678061
cis-1,2-Dichloroethene	6.55		0.0189	0.0643	20	05/31/2021 14:31	WG1680309
trans-1,2-Dichloroethene	0.0186		0.00134	0.00643	1	05/27/2021 02:04	WG1678061
1,2-Dichloropropane	U		0.00182	0.00643	1	05/27/2021 02:04	WG1678061
1,1-Dichloropropene	U		0.00104	0.00321	1	05/27/2021 02:04	WG1678061
1,3-Dichloropropane	U		0.000644	0.00643	1	05/27/2021 02:04	WG1678061
cis-1,3-Dichloropropene	U		0.000973	0.00321	1	05/27/2021 02:04	WG1678061
trans-1,3-Dichloropropene	U		0.00146	0.00643	1	05/27/2021 02:04	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00239	0.00643	1	05/27/2021 02:04	WG1678061
2,2-Dichloropropane	U		0.00177	0.00321	1	05/27/2021 02:04	WG1678061
Di-isopropyl ether	U		0.000527	0.00129	1	05/27/2021 02:04	WG1678061
Ethylbenzene	U		0.000947	0.00321	1	05/27/2021 02:04	WG1678061
Hexachloro-1,3-butadiene	U		0.00771	0.0321	1	05/27/2021 02:04	WG1678061
2-Hexanone	U		0.00432	0.0321	1	05/27/2021 02:04	WG1678061
n-Hexane	U		0.00290	0.00643	1	05/27/2021 02:04	WG1678061
Iodomethane	U		0.00298	0.0161	1	05/27/2021 02:04	WG1678061
Isopropylbenzene	U		0.000546	0.00321	1	05/27/2021 02:04	WG1678061
p-Isopropyltoluene	U		0.00328	0.00643	1	05/27/2021 02:04	WG1678061
2-Butanone (MEK)	U		0.0816	0.129	1	05/27/2021 02:04	WG1678061
Methylene Chloride	U		0.00853	0.0321	1	05/27/2021 02:04	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00293	0.0321	1	05/27/2021 02:04	WG1678061

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000450	0.00129	1	05/27/2021 02:04	WG1678061
Naphthalene	U		0.00627	0.0161	1	05/27/2021 02:04	WG1678061
n-Propylbenzene	U		0.00122	0.00643	1	05/27/2021 02:04	WG1678061
Styrene	U		0.000294	0.0161	1	05/27/2021 02:04	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00122	0.00321	1	05/27/2021 02:04	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000893	0.00321	1	05/27/2021 02:04	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000969	0.00321	1	05/27/2021 02:04	WG1678061
Tetrachloroethene	0.749		0.00115	0.00321	1	05/27/2021 02:04	WG1678061
Toluene	U		0.00167	0.00643	1	05/27/2021 02:04	WG1678061
1,2,3-Trichlorobenzene	U		0.00942	0.0161	1	05/27/2021 02:04	WG1678061
1,2,4-Trichlorobenzene	U		0.00565	0.0161	1	05/27/2021 02:04	WG1678061
1,1,1-Trichloroethane	U		0.00119	0.00321	1	05/27/2021 02:04	WG1678061
1,1,2-Trichloroethane	U		0.000767	0.00321	1	05/27/2021 02:04	WG1678061
Trichloroethene	0.249		0.000750	0.00129	1	05/27/2021 02:04	WG1678061
Trichlorofluoromethane	U		0.00106	0.00321	1	05/27/2021 02:04	WG1678061
1,2,3-Trichloropropane	U		0.00208	0.0161	1	05/27/2021 02:04	WG1678061
1,2,4-Trimethylbenzene	U		0.00203	0.00643	1	05/27/2021 02:04	WG1678061
1,2,3-Trimethylbenzene	U		0.00203	0.00643	1	05/27/2021 02:04	WG1678061
1,3,5-Trimethylbenzene	U		0.00257	0.00643	1	05/27/2021 02:04	WG1678061
Vinyl acetate	U		0.00326	0.0161	1	05/27/2021 02:04	WG1678061
Vinyl chloride	0.569		0.00149	0.00321	1	05/27/2021 02:04	WG1678061
Xylenes, Total	U		0.00113	0.00835	1	05/27/2021 02:04	WG1678061
(S) Toluene-d8	*104*			*75.0-131*		*05/27/2021 02:04*	WG1678061
(S) Toluene-d8	*101*			*75.0-131*		*05/31/2021 14:31*	WG1680309
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*		*05/27/2021 02:04*	WG1678061
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*05/31/2021 14:31*	WG1680309
(S) 1,2-Dichloroethane-d4	*96.3*			*70.0-130*		*05/27/2021 02:04*	WG1678061
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*05/31/2021 14:31*	WG1680309

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	05/26/2021 10:05	WG1677074

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0456	0.0625	1	05/27/2021 02:23	WG1678061
Acrylonitrile	U		0.00451	0.0156	1	05/27/2021 02:23	WG1678061
Benzene	U		0.000584	0.00125	1	05/27/2021 02:23	WG1678061
Bromobenzene	U		0.00112	0.0156	1	05/27/2021 02:23	WG1678061
Bromodichloromethane	U		0.000906	0.00312	1	05/27/2021 02:23	WG1678061
Bromochloromethane	U		0.000705	0.00625	1	05/27/2021 02:23	WG1678061
Bromoform	U		0.00146	0.0312	1	05/27/2021 02:23	WG1678061
Bromomethane	U		0.00246	0.0156	1	05/27/2021 02:23	WG1678061
n-Butylbenzene	U		0.00656	0.0156	1	05/27/2021 02:23	WG1678061
sec-Butylbenzene	U		0.00360	0.0156	1	05/27/2021 02:23	WG1678061
tert-Butylbenzene	U		0.00244	0.00625	1	05/27/2021 02:23	WG1678061
Carbon disulfide	U		0.000875	0.0156	1	05/27/2021 02:23	WG1678061
Carbon tetrachloride	U		0.00112	0.00625	1	05/27/2021 02:23	WG1678061
Chlorobenzene	U		0.000262	0.00312	1	05/27/2021 02:23	WG1678061
Chlorodibromomethane	U		0.000765	0.00312	1	05/27/2021 02:23	WG1678061
Chloroethane	U		0.00212	0.00625	1	05/27/2021 02:23	WG1678061
Chloroform	U		0.00129	0.00312	1	05/27/2021 02:23	WG1678061
Chloromethane	U		0.00544	0.0156	1	05/27/2021 02:23	WG1678061
2-Chlorotoluene	U		0.00108	0.00312	1	05/27/2021 02:23	WG1678061
4-Chlorotoluene	U		0.000562	0.00625	1	05/27/2021 02:23	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00487	0.0312	1	05/27/2021 02:23	WG1678061
1,2-Dibromoethane	U		0.000810	0.00312	1	05/27/2021 02:23	WG1678061
Dibromomethane	U		0.000937	0.00625	1	05/27/2021 02:23	WG1678061
1,2-Dichlorobenzene	U		0.000531	0.00625	1	05/27/2021 02:23	WG1678061
1,3-Dichlorobenzene	U		0.000750	0.00625	1	05/27/2021 02:23	WG1678061
1,4-Dichlorobenzene	U		0.000875	0.00625	1	05/27/2021 02:23	WG1678061
Dichlorodifluoromethane	U		0.00201	0.00312	1	05/27/2021 02:23	WG1678061
1,1-Dichloroethane	U		0.000614	0.00312	1	05/27/2021 02:23	WG1678061
1,2-Dichloroethane	U		0.000811	0.00312	1	05/27/2021 02:23	WG1678061
1,1-Dichloroethene	U		0.000757	0.00312	1	05/27/2021 02:23	WG1678061
cis-1,2-Dichloroethene	0.00259	J	0.000917	0.00312	1	05/31/2021 13:15	WG1680309
trans-1,2-Dichloroethene	U		0.00130	0.00625	1	05/27/2021 02:23	WG1678061
1,2-Dichloropropane	U		0.00177	0.00625	1	05/27/2021 02:23	WG1678061
1,1-Dichloropropene	U		0.00101	0.00312	1	05/27/2021 02:23	WG1678061
1,3-Dichloropropane	U		0.000626	0.00625	1	05/27/2021 02:23	WG1678061
cis-1,3-Dichloropropene	U		0.000946	0.00312	1	05/27/2021 02:23	WG1678061
trans-1,3-Dichloropropene	U		0.00142	0.00625	1	05/27/2021 02:23	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00232	0.00625	1	05/27/2021 02:23	WG1678061
2,2-Dichloropropane	U		0.00172	0.00312	1	05/27/2021 02:23	WG1678061
Di-isopropyl ether	U		0.000512	0.00125	1	05/27/2021 02:23	WG1678061
Ethylbenzene	U		0.000921	0.00312	1	05/27/2021 02:23	WG1678061
Hexachloro-1,3-butadiene	U		0.00750	0.0312	1	05/27/2021 02:23	WG1678061
2-Hexanone	U		0.00420	0.0312	1	05/27/2021 02:23	WG1678061
n-Hexane	U		0.00282	0.00625	1	05/27/2021 02:23	WG1678061
Iodomethane	U		0.00290	0.0156	1	05/27/2021 02:23	WG1678061
Isopropylbenzene	U		0.000531	0.00312	1	05/27/2021 02:23	WG1678061
p-Isopropyltoluene	U		0.00319	0.00625	1	05/27/2021 02:23	WG1678061
2-Butanone (MEK)	U		0.0794	0.125	1	05/27/2021 02:23	WG1678061
Methylene Chloride	U		0.00830	0.0312	1	05/27/2021 02:23	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00285	0.0312	1	05/27/2021 02:23	WG1678061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000437	0.00125	1	05/27/2021 02:23	WG1678061
Naphthalene	U		0.00610	0.0156	1	05/27/2021 02:23	WG1678061
n-Propylbenzene	U		0.00119	0.00625	1	05/27/2021 02:23	WG1678061
Styrene	U		0.000286	0.0156	1	05/27/2021 02:23	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00118	0.00312	1	05/27/2021 02:23	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000869	0.00312	1	05/27/2021 02:23	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000942	0.00312	1	05/27/2021 02:23	WG1678061
Tetrachloroethene	0.00157	J	0.00112	0.00312	1	05/27/2021 02:23	WG1678061
Toluene	U		0.00162	0.00625	1	05/27/2021 02:23	WG1678061
1,2,3-Trichlorobenzene	U		0.00916	0.0156	1	05/27/2021 02:23	WG1678061
1,2,4-Trichlorobenzene	U		0.00550	0.0156	1	05/27/2021 02:23	WG1678061
1,1,1-Trichloroethane	U		0.00115	0.00312	1	05/27/2021 02:23	WG1678061
1,1,2-Trichloroethane	U		0.000746	0.00312	1	05/27/2021 02:23	WG1678061
Trichloroethene	0.000740	J	0.000730	0.00125	1	05/27/2021 02:23	WG1678061
Trichlorofluoromethane	U		0.00103	0.00312	1	05/27/2021 02:23	WG1678061
1,2,3-Trichloropropane	U		0.00202	0.0156	1	05/27/2021 02:23	WG1678061
1,2,4-Trimethylbenzene	U		0.00197	0.00625	1	05/27/2021 02:23	WG1678061
1,2,3-Trimethylbenzene	U		0.00197	0.00625	1	05/27/2021 02:23	WG1678061
1,3,5-Trimethylbenzene	U		0.00250	0.00625	1	05/27/2021 02:23	WG1678061
Vinyl acetate	U		0.00317	0.0156	1	05/27/2021 02:23	WG1678061
Vinyl chloride	U		0.00145	0.00312	1	05/27/2021 02:23	WG1678061
Xylenes, Total	U		0.00110	0.00812	1	05/27/2021 02:23	WG1678061
(S) Toluene-d8	*107*			*75.0-131*		*05/27/2021 02:23*	WG1678061
(S) Toluene-d8	*105*			*75.0-131*		*05/31/2021 13:15*	WG1680309
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*05/27/2021 02:23*	WG1678061
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*05/31/2021 13:15*	WG1680309
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*		*05/27/2021 02:23*	WG1678061
(S) 1,2-Dichloroethane-d4	*90.3*			*70.0-130*		*05/31/2021 13:15*	WG1680309

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.1		1	05/26/2021 10:05	WG1677074

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0446	0.0611	1	05/27/2021 02:42	WG1678061
Acrylonitrile	U		0.00441	0.0153	1	05/27/2021 02:42	WG1678061
Benzene	U		0.000571	0.00122	1	05/27/2021 02:42	WG1678061
Bromobenzene	U		0.00110	0.0153	1	05/27/2021 02:42	WG1678061
Bromodichloromethane	U		0.000886	0.00306	1	05/27/2021 02:42	WG1678061
Bromochloromethane	U		0.000690	0.00611	1	05/27/2021 02:42	WG1678061
Bromoform	U		0.00143	0.0306	1	05/27/2021 02:42	WG1678061
Bromomethane	U		0.00241	0.0153	1	05/27/2021 02:42	WG1678061
n-Butylbenzene	U		0.00642	0.0153	1	05/27/2021 02:42	WG1678061
sec-Butylbenzene	U		0.00352	0.0153	1	05/27/2021 02:42	WG1678061
tert-Butylbenzene	U		0.00238	0.00611	1	05/27/2021 02:42	WG1678061
Carbon disulfide	U		0.000856	0.0153	1	05/27/2021 02:42	WG1678061
Carbon tetrachloride	U		0.00110	0.00611	1	05/27/2021 02:42	WG1678061
Chlorobenzene	U		0.000257	0.00306	1	05/27/2021 02:42	WG1678061
Chlorodibromomethane	U		0.000748	0.00306	1	05/27/2021 02:42	WG1678061
Chloroethane	U		0.00208	0.00611	1	05/27/2021 02:42	WG1678061
Chloroform	U		0.00126	0.00306	1	05/27/2021 02:42	WG1678061
Chloromethane	U		0.00532	0.0153	1	05/27/2021 02:42	WG1678061
2-Chlorotoluene	U		0.00106	0.00306	1	05/27/2021 02:42	WG1678061
4-Chlorotoluene	U		0.000550	0.00611	1	05/27/2021 02:42	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00477	0.0306	1	05/27/2021 02:42	WG1678061
1,2-Dibromoethane	U		0.000792	0.00306	1	05/27/2021 02:42	WG1678061
Dibromomethane	U		0.000917	0.00611	1	05/27/2021 02:42	WG1678061
1,2-Dichlorobenzene	U		0.000520	0.00611	1	05/27/2021 02:42	WG1678061
1,3-Dichlorobenzene	U		0.000734	0.00611	1	05/27/2021 02:42	WG1678061
1,4-Dichlorobenzene	U		0.000856	0.00611	1	05/27/2021 02:42	WG1678061
Dichlorodifluoromethane	U		0.00197	0.00306	1	05/27/2021 02:42	WG1678061
1,1-Dichloroethane	U		0.000600	0.00306	1	05/27/2021 02:42	WG1678061
1,2-Dichloroethane	U		0.000793	0.00306	1	05/27/2021 02:42	WG1678061
1,1-Dichloroethene	U		0.000741	0.00306	1	05/27/2021 02:42	WG1678061
cis-1,2-Dichloroethene	0.0198		0.000897	0.00306	1	05/31/2021 13:34	WG1680309
trans-1,2-Dichloroethene	U		0.00127	0.00611	1	05/27/2021 02:42	WG1678061
1,2-Dichloropropane	U		0.00174	0.00611	1	05/27/2021 02:42	WG1678061
1,1-Dichloropropene	U		0.000989	0.00306	1	05/27/2021 02:42	WG1678061
1,3-Dichloropropane	U		0.000613	0.00611	1	05/27/2021 02:42	WG1678061
cis-1,3-Dichloropropene	U		0.000926	0.00306	1	05/27/2021 02:42	WG1678061
trans-1,3-Dichloropropene	U		0.00139	0.00611	1	05/27/2021 02:42	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00227	0.00611	1	05/27/2021 02:42	WG1678061
2,2-Dichloropropane	U		0.00169	0.00306	1	05/27/2021 02:42	WG1678061
Di-isopropyl ether	U		0.000501	0.00122	1	05/27/2021 02:42	WG1678061
Ethylbenzene	U		0.000901	0.00306	1	05/27/2021 02:42	WG1678061
Hexachloro-1,3-butadiene	U		0.00734	0.0306	1	05/27/2021 02:42	WG1678061
2-Hexanone	U		0.00411	0.0306	1	05/27/2021 02:42	WG1678061
n-Hexane	U		0.00276	0.00611	1	05/27/2021 02:42	WG1678061
Iodomethane	U		0.00284	0.0153	1	05/27/2021 02:42	WG1678061
Isopropylbenzene	U		0.000520	0.00306	1	05/27/2021 02:42	WG1678061
p-Isopropyltoluene	U		0.00312	0.00611	1	05/27/2021 02:42	WG1678061
2-Butanone (MEK)	U		0.0776	0.122	1	05/27/2021 02:42	WG1678061
Methylene Chloride	U		0.00812	0.0306	1	05/27/2021 02:42	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00279	0.0306	1	05/27/2021 02:42	WG1678061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000428	0.00122	1	05/27/2021 02:42	WG1678061
Naphthalene	U		0.00597	0.0153	1	05/27/2021 02:42	WG1678061
n-Propylbenzene	U		0.00116	0.00611	1	05/27/2021 02:42	WG1678061
Styrene	U		0.000280	0.0153	1	05/27/2021 02:42	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00116	0.00306	1	05/27/2021 02:42	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000850	0.00306	1	05/27/2021 02:42	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000922	0.00306	1	05/27/2021 02:42	WG1678061
Tetrachloroethene	0.00913		0.00110	0.00306	1	05/27/2021 02:42	WG1678061
Toluene	0.00260	J	0.00159	0.00611	1	05/27/2021 02:42	WG1678061
1,2,3-Trichlorobenzene	U		0.00896	0.0153	1	05/27/2021 02:42	WG1678061
1,2,4-Trichlorobenzene	U		0.00538	0.0153	1	05/27/2021 02:42	WG1678061
1,1,1-Trichloroethane	U		0.00113	0.00306	1	05/27/2021 02:42	WG1678061
1,1,2-Trichloroethane	U		0.000730	0.00306	1	05/27/2021 02:42	WG1678061
Trichloroethene	0.00300		0.000714	0.00122	1	05/27/2021 02:42	WG1678061
Trichlorofluoromethane	U		0.00101	0.00306	1	05/27/2021 02:42	WG1678061
1,2,3-Trichloropropane	U		0.00198	0.0153	1	05/27/2021 02:42	WG1678061
1,2,4-Trimethylbenzene	U		0.00193	0.00611	1	05/27/2021 02:42	WG1678061
1,2,3-Trimethylbenzene	U		0.00193	0.00611	1	05/27/2021 02:42	WG1678061
1,3,5-Trimethylbenzene	U		0.00245	0.00611	1	05/27/2021 02:42	WG1678061
Vinyl acetate	U		0.00311	0.0153	1	05/27/2021 02:42	WG1678061
Vinyl chloride	U		0.00142	0.00306	1	05/27/2021 02:42	WG1678061
Xylenes, Total	U		0.00108	0.00795	1	05/27/2021 02:42	WG1678061
(S) Toluene-d8	*105*			*75.0-131*		*05/27/2021 02:42*	WG1678061
(S) Toluene-d8	*105*			*75.0-131*		*05/31/2021 13:34*	WG1680309
(S) 4-Bromofluorobenzene	*97.9*			*67.0-138*		*05/27/2021 02:42*	WG1678061
(S) 4-Bromofluorobenzene	*96.9*			*67.0-138*		*05/31/2021 13:34*	WG1680309
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*05/27/2021 02:42*	WG1678061
(S) 1,2-Dichloroethane-d4	*89.7*			*70.0-130*		*05/31/2021 13:34*	WG1680309

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.3		1	05/26/2021 10:14	WG1677076

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0476	0.0653	1	05/27/2021 03:01	WG1678061
Acrylonitrile	U		0.00471	0.0163	1	05/27/2021 03:01	WG1678061
Benzene	U		0.000609	0.00131	1	05/27/2021 03:01	WG1678061
Bromobenzene	U		0.00117	0.0163	1	05/27/2021 03:01	WG1678061
Bromodichloromethane	U		0.000946	0.00326	1	05/27/2021 03:01	WG1678061
Bromochloromethane	U		0.000736	0.00653	1	05/27/2021 03:01	WG1678061
Bromoform	U		0.00153	0.0326	1	05/27/2021 03:01	WG1678061
Bromomethane	U		0.00257	0.0163	1	05/27/2021 03:01	WG1678061
n-Butylbenzene	U		0.00685	0.0163	1	05/27/2021 03:01	WG1678061
sec-Butylbenzene	U		0.00376	0.0163	1	05/27/2021 03:01	WG1678061
tert-Butylbenzene	U		0.00254	0.00653	1	05/27/2021 03:01	WG1678061
Carbon disulfide	U		0.000914	0.0163	1	05/27/2021 03:01	WG1678061
Carbon tetrachloride	U		0.00117	0.00653	1	05/27/2021 03:01	WG1678061
Chlorobenzene	U		0.000274	0.00326	1	05/27/2021 03:01	WG1678061
Chlorodibromomethane	U		0.000799	0.00326	1	05/27/2021 03:01	WG1678061
Chloroethane	U		0.00222	0.00653	1	05/27/2021 03:01	WG1678061
Chloroform	U		0.00134	0.00326	1	05/27/2021 03:01	WG1678061
Chloromethane	U		0.00568	0.0163	1	05/27/2021 03:01	WG1678061
2-Chlorotoluene	U		0.00113	0.00326	1	05/27/2021 03:01	WG1678061
4-Chlorotoluene	U		0.000587	0.00653	1	05/27/2021 03:01	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00509	0.0326	1	05/27/2021 03:01	WG1678061
1,2-Dibromoethane	U		0.000846	0.00326	1	05/27/2021 03:01	WG1678061
Dibromomethane	U		0.000979	0.00653	1	05/27/2021 03:01	WG1678061
1,2-Dichlorobenzene	U		0.000555	0.00653	1	05/27/2021 03:01	WG1678061
1,3-Dichlorobenzene	U		0.000783	0.00653	1	05/27/2021 03:01	WG1678061
1,4-Dichlorobenzene	U		0.000914	0.00653	1	05/27/2021 03:01	WG1678061
Dichlorodifluoromethane	U		0.00210	0.00326	1	05/27/2021 03:01	WG1678061
1,1-Dichloroethane	U		0.000641	0.00326	1	05/27/2021 03:01	WG1678061
1,2-Dichloroethane	U		0.000847	0.00326	1	05/27/2021 03:01	WG1678061
1,1-Dichloroethene	0.00525		0.000791	0.00326	1	05/27/2021 03:01	WG1678061
cis-1,2-Dichloroethene	0.753		0.000958	0.00326	1	05/27/2021 03:01	WG1678061
trans-1,2-Dichloroethene	0.00442	J	0.00136	0.00653	1	05/27/2021 03:01	WG1678061
1,2-Dichloropropane	U		0.00185	0.00653	1	05/27/2021 03:01	WG1678061
1,1-Dichloropropene	U		0.00106	0.00326	1	05/27/2021 03:01	WG1678061
1,3-Dichloropropane	U		0.000654	0.00653	1	05/27/2021 03:01	WG1678061
cis-1,3-Dichloropropene	U		0.000988	0.00326	1	05/27/2021 03:01	WG1678061
trans-1,3-Dichloropropene	U		0.00149	0.00653	1	05/27/2021 03:01	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00243	0.00653	1	05/27/2021 03:01	WG1678061
2,2-Dichloropropane	U		0.00180	0.00326	1	05/27/2021 03:01	WG1678061
Di-isopropyl ether	U		0.000535	0.00131	1	05/27/2021 03:01	WG1678061
Ethylbenzene	U		0.000962	0.00326	1	05/27/2021 03:01	WG1678061
Hexachloro-1,3-butadiene	U		0.00783	0.0326	1	05/27/2021 03:01	WG1678061
2-Hexanone	U		0.00438	0.0326	1	05/27/2021 03:01	WG1678061
n-Hexane	U		0.00295	0.00653	1	05/27/2021 03:01	WG1678061
Iodomethane	U		0.00303	0.0163	1	05/27/2021 03:01	WG1678061
Isopropylbenzene	U		0.000555	0.00326	1	05/27/2021 03:01	WG1678061
p-Isopropyltoluene	U		0.00333	0.00653	1	05/27/2021 03:01	WG1678061
2-Butanone (MEK)	U		0.0829	0.131	1	05/27/2021 03:01	WG1678061
Methylene Chloride	U		0.00867	0.0326	1	05/27/2021 03:01	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00298	0.0326	1	05/27/2021 03:01	WG1678061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000457	0.00131	1	05/27/2021 03:01	WG1678061
Naphthalene	U		0.00637	0.0163	1	05/27/2021 03:01	WG1678061
n-Propylbenzene	U		0.00124	0.00653	1	05/27/2021 03:01	WG1678061
Styrene	U		0.000299	0.0163	1	05/27/2021 03:01	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00124	0.00326	1	05/27/2021 03:01	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000907	0.00326	1	05/27/2021 03:01	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000984	0.00326	1	05/27/2021 03:01	WG1678061
Tetrachloroethene	1.08		0.00117	0.00326	1	05/27/2021 03:01	WG1678061
Toluene	U		0.00170	0.00653	1	05/27/2021 03:01	WG1678061
1,2,3-Trichlorobenzene	U		0.00957	0.0163	1	05/27/2021 03:01	WG1678061
1,2,4-Trichlorobenzene	U		0.00574	0.0163	1	05/27/2021 03:01	WG1678061
1,1,1-Trichloroethane	U		0.00120	0.00326	1	05/27/2021 03:01	WG1678061
1,1,2-Trichloroethane	U		0.000779	0.00326	1	05/27/2021 03:01	WG1678061
Trichloroethene	0.509		0.000762	0.00131	1	05/27/2021 03:01	WG1678061
Trichlorofluoromethane	U		0.00108	0.00326	1	05/27/2021 03:01	WG1678061
1,2,3-Trichloropropane	U		0.00211	0.0163	1	05/27/2021 03:01	WG1678061
1,2,4-Trimethylbenzene	U		0.00206	0.00653	1	05/27/2021 03:01	WG1678061
1,2,3-Trimethylbenzene	U		0.00206	0.00653	1	05/27/2021 03:01	WG1678061
1,3,5-Trimethylbenzene	U		0.00261	0.00653	1	05/27/2021 03:01	WG1678061
Vinyl acetate	U		0.00331	0.0163	1	05/27/2021 03:01	WG1678061
Vinyl chloride	0.321		0.00151	0.00326	1	05/27/2021 03:01	WG1678061
Xylenes, Total	U		0.00115	0.00848	1	05/27/2021 03:01	WG1678061
(S) Toluene-d8	*105*			*75.0-131*		*05/27/2021 03:01*	WG1678061
(S) 4-Bromofluorobenzene	*97.4*			*67.0-138*		*05/27/2021 03:01*	WG1678061
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*05/27/2021 03:01*	WG1678061

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	05/26/2021 10:14	WG1677076

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0427	0.0584	1	05/27/2021 03:20	WG1678061
Acrylonitrile	U		0.00422	0.0146	1	05/27/2021 03:20	WG1678061
Benzene	U		0.000546	0.00117	1	05/27/2021 03:20	WG1678061
Bromobenzene	U		0.00105	0.0146	1	05/27/2021 03:20	WG1678061
Bromodichloromethane	U		0.000847	0.00292	1	05/27/2021 03:20	WG1678061
Bromochloromethane	U		0.000659	0.00584	1	05/27/2021 03:20	WG1678061
Bromoform	U		0.00137	0.0292	1	05/27/2021 03:20	WG1678061
Bromomethane	U		0.00230	0.0146	1	05/27/2021 03:20	WG1678061
n-Butylbenzene	U		0.00613	0.0146	1	05/27/2021 03:20	WG1678061
sec-Butylbenzene	U		0.00337	0.0146	1	05/27/2021 03:20	WG1678061
tert-Butylbenzene	U		0.00228	0.00584	1	05/27/2021 03:20	WG1678061
Carbon disulfide	U		0.000818	0.0146	1	05/27/2021 03:20	WG1678061
Carbon tetrachloride	U		0.00105	0.00584	1	05/27/2021 03:20	WG1678061
Chlorobenzene	U		0.000245	0.00292	1	05/27/2021 03:20	WG1678061
Chlorodibromomethane	U		0.000715	0.00292	1	05/27/2021 03:20	WG1678061
Chloroethane	U		0.00199	0.00584	1	05/27/2021 03:20	WG1678061
Chloroform	U		0.00120	0.00292	1	05/27/2021 03:20	WG1678061
Chloromethane	U		0.00508	0.0146	1	05/27/2021 03:20	WG1678061
2-Chlorotoluene	U		0.00101	0.00292	1	05/27/2021 03:20	WG1678061
4-Chlorotoluene	U		0.000526	0.00584	1	05/27/2021 03:20	WG1678061
1,2-Dibromo-3-Chloropropane	U		0.00456	0.0292	1	05/27/2021 03:20	WG1678061
1,2-Dibromoethane	U		0.000757	0.00292	1	05/27/2021 03:20	WG1678061
Dibromomethane	U		0.000876	0.00584	1	05/27/2021 03:20	WG1678061
1,2-Dichlorobenzene	U		0.000497	0.00584	1	05/27/2021 03:20	WG1678061
1,3-Dichlorobenzene	U		0.000701	0.00584	1	05/27/2021 03:20	WG1678061
1,4-Dichlorobenzene	U		0.000818	0.00584	1	05/27/2021 03:20	WG1678061
Dichlorodifluoromethane	U		0.00188	0.00292	1	05/27/2021 03:20	WG1678061
1,1-Dichloroethane	U		0.000574	0.00292	1	05/27/2021 03:20	WG1678061
1,2-Dichloroethane	U		0.000758	0.00292	1	05/27/2021 03:20	WG1678061
1,1-Dichloroethene	U		0.000708	0.00292	1	05/27/2021 03:20	WG1678061
cis-1,2-Dichloroethene	U		0.000858	0.00292	1	05/27/2021 03:20	WG1678061
trans-1,2-Dichloroethene	U		0.00122	0.00584	1	05/27/2021 03:20	WG1678061
1,2-Dichloropropane	U		0.00166	0.00584	1	05/27/2021 03:20	WG1678061
1,1-Dichloropropene	U		0.000945	0.00292	1	05/27/2021 03:20	WG1678061
1,3-Dichloropropane	U		0.000585	0.00584	1	05/27/2021 03:20	WG1678061
cis-1,3-Dichloropropene	U		0.000885	0.00292	1	05/27/2021 03:20	WG1678061
trans-1,3-Dichloropropene	U		0.00133	0.00584	1	05/27/2021 03:20	WG1678061
trans-1,4-Dichloro-2-butene	U		0.00217	0.00584	1	05/27/2021 03:20	WG1678061
2,2-Dichloropropane	U		0.00161	0.00292	1	05/27/2021 03:20	WG1678061
Di-isopropyl ether	U		0.000479	0.00117	1	05/27/2021 03:20	WG1678061
Ethylbenzene	U		0.000861	0.00292	1	05/27/2021 03:20	WG1678061
Hexachloro-1,3-butadiene	U		0.00701	0.0292	1	05/27/2021 03:20	WG1678061
2-Hexanone	U		0.00393	0.0292	1	05/27/2021 03:20	WG1678061
n-Hexane	U		0.00264	0.00584	1	05/27/2021 03:20	WG1678061
Iodomethane	U		0.00271	0.0146	1	05/27/2021 03:20	WG1678061
Isopropylbenzene	U		0.000497	0.00292	1	05/27/2021 03:20	WG1678061
p-Isopropyltoluene	U		0.00298	0.00584	1	05/27/2021 03:20	WG1678061
2-Butanone (MEK)	U		0.0742	0.117	1	05/27/2021 03:20	WG1678061
Methylene Chloride	U		0.00776	0.0292	1	05/27/2021 03:20	WG1678061
4-Methyl-2-pentanone (MIBK)	U		0.00266	0.0292	1	05/27/2021 03:20	WG1678061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000409	0.00117	1	05/27/2021 03:20	WG1678061
Naphthalene	U		0.00570	0.0146	1	05/27/2021 03:20	WG1678061
n-Propylbenzene	U		0.00111	0.00584	1	05/27/2021 03:20	WG1678061
Styrene	U		0.000268	0.0146	1	05/27/2021 03:20	WG1678061
1,1,1,2-Tetrachloroethane	U		0.00111	0.00292	1	05/27/2021 03:20	WG1678061
1,1,2,2-Tetrachloroethane	U		0.000812	0.00292	1	05/27/2021 03:20	WG1678061
1,1,2-Trichlorotrifluoroethane	U		0.000881	0.00292	1	05/27/2021 03:20	WG1678061
Tetrachloroethene	0.00171	J	0.00105	0.00292	1	05/27/2021 03:20	WG1678061
Toluene	U		0.00152	0.00584	1	05/27/2021 03:20	WG1678061
1,2,3-Trichlorobenzene	U		0.00857	0.0146	1	05/27/2021 03:20	WG1678061
1,2,4-Trichlorobenzene	U		0.00514	0.0146	1	05/27/2021 03:20	WG1678061
1,1,1-Trichloroethane	U		0.00108	0.00292	1	05/27/2021 03:20	WG1678061
1,1,2-Trichloroethane	U		0.000698	0.00292	1	05/27/2021 03:20	WG1678061
Trichloroethene	U		0.000682	0.00117	1	05/27/2021 03:20	WG1678061
Trichlorofluoromethane	U		0.000966	0.00292	1	05/27/2021 03:20	WG1678061
1,2,3-Trichloropropane	U		0.00189	0.0146	1	05/27/2021 03:20	WG1678061
1,2,4-Trimethylbenzene	U		0.00185	0.00584	1	05/27/2021 03:20	WG1678061
1,2,3-Trimethylbenzene	U		0.00185	0.00584	1	05/27/2021 03:20	WG1678061
1,3,5-Trimethylbenzene	U		0.00234	0.00584	1	05/27/2021 03:20	WG1678061
Vinyl acetate	U		0.00297	0.0146	1	05/27/2021 03:20	WG1678061
Vinyl chloride	U		0.00136	0.00292	1	05/27/2021 03:20	WG1678061
Xylenes, Total	U		0.00103	0.00760	1	05/27/2021 03:20	WG1678061
(S) Toluene-d8	*104*			*75.0-131*		*05/27/2021 03:20*	WG1678061
(S) 4-Bromofluorobenzene	*97.5*			*67.0-138*		*05/27/2021 03:20*	WG1678061
(S) 1,2-Dichloroethane-d4	*97.5*			*70.0-130*		*05/27/2021 03:20*	WG1678061

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6		1	05/26/2021 10:14	WG1677076

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0440	0.0603	1	05/27/2021 18:01	WG1678763
Acrylonitrile	U		0.00435	0.0151	1	05/27/2021 18:01	WG1678763
Benzene	U		0.000563	0.00121	1	05/27/2021 18:01	WG1678763
Bromobenzene	U		0.00108	0.0151	1	05/27/2021 18:01	WG1678763
Bromodichloromethane	U		0.000874	0.00301	1	05/27/2021 18:01	WG1678763
Bromochloromethane	U		0.000680	0.00603	1	05/27/2021 18:01	WG1678763
Bromoform	U		0.00141	0.0301	1	05/27/2021 18:01	WG1678763
Bromomethane	U		0.00237	0.0151	1	05/27/2021 18:01	WG1678763
n-Butylbenzene	U		0.00633	0.0151	1	05/27/2021 18:01	WG1678763
sec-Butylbenzene	U		0.00347	0.0151	1	05/27/2021 18:01	WG1678763
tert-Butylbenzene	U		0.00235	0.00603	1	05/27/2021 18:01	WG1678763
Carbon disulfide	U		0.000844	0.0151	1	05/27/2021 18:01	WG1678763
Carbon tetrachloride	U		0.00108	0.00603	1	05/27/2021 18:01	WG1678763
Chlorobenzene	U		0.000253	0.00301	1	05/27/2021 18:01	WG1678763
Chlorodibromomethane	U		0.000738	0.00301	1	05/27/2021 18:01	WG1678763
Chloroethane	U		0.00205	0.00603	1	05/27/2021 18:01	WG1678763
Chloroform	U		0.00124	0.00301	1	05/27/2021 18:01	WG1678763
Chloromethane	U		0.00524	0.0151	1	05/27/2021 18:01	WG1678763
2-Chlorotoluene	U		0.00104	0.00301	1	05/27/2021 18:01	WG1678763
4-Chlorotoluene	U		0.000542	0.00603	1	05/27/2021 18:01	WG1678763
1,2-Dibromo-3-Chloropropane	U		0.00470	0.0301	1	05/27/2021 18:01	WG1678763
1,2-Dibromoethane	U		0.000781	0.00301	1	05/27/2021 18:01	WG1678763
Dibromomethane	U		0.000904	0.00603	1	05/27/2021 18:01	WG1678763
1,2-Dichlorobenzene	U		0.000512	0.00603	1	05/27/2021 18:01	WG1678763
1,3-Dichlorobenzene	U		0.000723	0.00603	1	05/27/2021 18:01	WG1678763
1,4-Dichlorobenzene	U		0.000844	0.00603	1	05/27/2021 18:01	WG1678763
Dichlorodifluoromethane	U		0.00194	0.00301	1	05/27/2021 18:01	WG1678763
1,1-Dichloroethane	U		0.000592	0.00301	1	05/27/2021 18:01	WG1678763
1,2-Dichloroethane	U		0.000782	0.00301	1	05/27/2021 18:01	WG1678763
1,1-Dichloroethene	U		0.000730	0.00301	1	05/27/2021 18:01	WG1678763
cis-1,2-Dichloroethene	0.00202	J	0.000885	0.00301	1	05/27/2021 18:01	WG1678763
trans-1,2-Dichloroethene	U		0.00125	0.00603	1	05/27/2021 18:01	WG1678763
1,2-Dichloropropane	U		0.00171	0.00603	1	05/27/2021 18:01	WG1678763
1,1-Dichloropropene	U		0.000975	0.00301	1	05/27/2021 18:01	WG1678763
1,3-Dichloropropane	U		0.000604	0.00603	1	05/27/2021 18:01	WG1678763
cis-1,3-Dichloropropene	U		0.000912	0.00301	1	05/27/2021 18:01	WG1678763
trans-1,3-Dichloropropene	U		0.00137	0.00603	1	05/27/2021 18:01	WG1678763
trans-1,4-Dichloro-2-butene	U		0.00224	0.00603	1	05/27/2021 18:01	WG1678763
2,2-Dichloropropane	U		0.00166	0.00301	1	05/27/2021 18:01	WG1678763
Di-isopropyl ether	U		0.000494	0.00121	1	05/27/2021 18:01	WG1678763
Ethylbenzene	U		0.000888	0.00301	1	05/27/2021 18:01	WG1678763
Hexachloro-1,3-butadiene	U		0.00723	0.0301	1	05/27/2021 18:01	WG1678763
2-Hexanone	U		0.00405	0.0301	1	05/27/2021 18:01	WG1678763
n-Hexane	U		0.00272	0.00603	1	05/27/2021 18:01	WG1678763
Iodomethane	U		0.00280	0.0151	1	05/27/2021 18:01	WG1678763
Isopropylbenzene	U		0.000512	0.00301	1	05/27/2021 18:01	WG1678763
p-Isopropyltoluene	U		0.00307	0.00603	1	05/27/2021 18:01	WG1678763
2-Butanone (MEK)	U		0.0765	0.121	1	05/27/2021 18:01	WG1678763
Methylene Chloride	U		0.00800	0.0301	1	05/27/2021 18:01	WG1678763
4-Methyl-2-pentanone (MIBK)	U		0.00275	0.0301	1	05/27/2021 18:01	WG1678763

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000422	0.00121	1	05/27/2021 18:01	WG1678763
Naphthalene	U		0.00588	0.0151	1	05/27/2021 18:01	WG1678763
n-Propylbenzene	U		0.00114	0.00603	1	05/27/2021 18:01	WG1678763
Styrene	U		0.000276	0.0151	1	05/27/2021 18:01	WG1678763
1,1,1,2-Tetrachloroethane	U		0.00114	0.00301	1	05/27/2021 18:01	WG1678763
1,1,2,2-Tetrachloroethane	U		0.000838	0.00301	1	05/27/2021 18:01	WG1678763
1,1,2-Trichlorotrifluoroethane	U		0.000909	0.00301	1	05/27/2021 18:01	WG1678763
Tetrachloroethene	0.00129	J	0.00108	0.00301	1	05/27/2021 18:01	WG1678763
Toluene	U		0.00157	0.00603	1	05/27/2021 18:01	WG1678763
1,2,3-Trichlorobenzene	U		0.00883	0.0151	1	05/27/2021 18:01	WG1678763
1,2,4-Trichlorobenzene	U		0.00530	0.0151	1	05/27/2021 18:01	WG1678763
1,1,1-Trichloroethane	U		0.00111	0.00301	1	05/27/2021 18:01	WG1678763
1,1,2-Trichloroethane	U		0.000719	0.00301	1	05/27/2021 18:01	WG1678763
Trichloroethene	0.000733	J	0.000704	0.00121	1	05/27/2021 18:01	WG1678763
Trichlorofluoromethane	U		0.000997	0.00301	1	05/27/2021 18:01	WG1678763
1,2,3-Trichloropropane	U		0.00195	0.0151	1	05/27/2021 18:01	WG1678763
1,2,4-Trimethylbenzene	U		0.00190	0.00603	1	05/27/2021 18:01	WG1678763
1,2,3-Trimethylbenzene	U		0.00190	0.00603	1	05/27/2021 18:01	WG1678763
1,3,5-Trimethylbenzene	U		0.00241	0.00603	1	05/27/2021 18:01	WG1678763
Vinyl acetate	0.00637	J	0.00306	0.0151	1	05/27/2021 18:01	WG1678763
Vinyl chloride	U		0.00140	0.00301	1	05/27/2021 18:01	WG1678763
Xylenes, Total	0.00129	J	0.00106	0.00783	1	05/27/2021 18:01	WG1678763
(S) Toluene-d8	*95.3*			*75.0-131*		*05/27/2021 18:01*	WG1678763
(S) 4-Bromofluorobenzene	*90.8*			*67.0-138*		*05/27/2021 18:01*	WG1678763
(S) 1,2-Dichloroethane-d4	*81.5*			*70.0-130*		*05/27/2021 18:01*	WG1678763

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	05/26/2021 10:14	WG1677076

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0434	0.0595	1	05/27/2021 18:22	WG1678763
Acrylonitrile	U		0.00430	0.0149	1	05/27/2021 18:22	WG1678763
Benzene	0.000836	J	0.000556	0.00119	1	05/27/2021 18:22	WG1678763
Bromobenzene	U		0.00107	0.0149	1	05/27/2021 18:22	WG1678763
Bromodichloromethane	U		0.000863	0.00298	1	05/27/2021 18:22	WG1678763
Bromochloromethane	U		0.000671	0.00595	1	05/27/2021 18:22	WG1678763
Bromoform	U		0.00139	0.0298	1	05/27/2021 18:22	WG1678763
Bromomethane	U		0.00235	0.0149	1	05/27/2021 18:22	WG1678763
n-Butylbenzene	U		0.00625	0.0149	1	05/27/2021 18:22	WG1678763
sec-Butylbenzene	U		0.00343	0.0149	1	05/27/2021 18:22	WG1678763
tert-Butylbenzene	U		0.00232	0.00595	1	05/27/2021 18:22	WG1678763
Carbon disulfide	0.00564	J	0.000833	0.0149	1	05/27/2021 18:22	WG1678763
Carbon tetrachloride	U		0.00107	0.00595	1	05/27/2021 18:22	WG1678763
Chlorobenzene	U		0.000250	0.00298	1	05/27/2021 18:22	WG1678763
Chlorodibromomethane	U		0.000729	0.00298	1	05/27/2021 18:22	WG1678763
Chloroethane	U		0.00202	0.00595	1	05/27/2021 18:22	WG1678763
Chloroform	U		0.00123	0.00298	1	05/27/2021 18:22	WG1678763
Chloromethane	U		0.00518	0.0149	1	05/27/2021 18:22	WG1678763
2-Chlorotoluene	U		0.00103	0.00298	1	05/27/2021 18:22	WG1678763
4-Chlorotoluene	U		0.000536	0.00595	1	05/27/2021 18:22	WG1678763
1,2-Dibromo-3-Chloropropane	U		0.00464	0.0298	1	05/27/2021 18:22	WG1678763
1,2-Dibromoethane	U		0.000771	0.00298	1	05/27/2021 18:22	WG1678763
Dibromomethane	U		0.000893	0.00595	1	05/27/2021 18:22	WG1678763
1,2-Dichlorobenzene	U		0.000506	0.00595	1	05/27/2021 18:22	WG1678763
1,3-Dichlorobenzene	U		0.000714	0.00595	1	05/27/2021 18:22	WG1678763
1,4-Dichlorobenzene	U		0.000833	0.00595	1	05/27/2021 18:22	WG1678763
Dichlorodifluoromethane	U		0.00192	0.00298	1	05/27/2021 18:22	WG1678763
1,1-Dichloroethane	U		0.000584	0.00298	1	05/27/2021 18:22	WG1678763
1,2-Dichloroethane	U		0.000773	0.00298	1	05/27/2021 18:22	WG1678763
1,1-Dichloroethene	U		0.000721	0.00298	1	05/27/2021 18:22	WG1678763
cis-1,2-Dichloroethene	0.0781		0.000874	0.00298	1	05/27/2021 18:22	WG1678763
trans-1,2-Dichloroethene	U		0.00124	0.00595	1	05/27/2021 18:22	WG1678763
1,2-Dichloropropane	U		0.00169	0.00595	1	05/27/2021 18:22	WG1678763
1,1-Dichloropropene	U		0.000963	0.00298	1	05/27/2021 18:22	WG1678763
1,3-Dichloropropane	U		0.000596	0.00595	1	05/27/2021 18:22	WG1678763
cis-1,3-Dichloropropene	U		0.000901	0.00298	1	05/27/2021 18:22	WG1678763
trans-1,3-Dichloropropene	U		0.00136	0.00595	1	05/27/2021 18:22	WG1678763
trans-1,4-Dichloro-2-butene	U		0.00221	0.00595	1	05/27/2021 18:22	WG1678763
2,2-Dichloropropane	U		0.00164	0.00298	1	05/27/2021 18:22	WG1678763
Di-isopropyl ether	U		0.000488	0.00119	1	05/27/2021 18:22	WG1678763
Ethylbenzene	U		0.000877	0.00298	1	05/27/2021 18:22	WG1678763
Hexachloro-1,3-butadiene	U		0.00714	0.0298	1	05/27/2021 18:22	WG1678763
2-Hexanone	U		0.00400	0.0298	1	05/27/2021 18:22	WG1678763
n-Hexane	0.0112		0.00269	0.00595	1	05/27/2021 18:22	WG1678763
Iodomethane	U		0.00276	0.0149	1	05/27/2021 18:22	WG1678763
Isopropylbenzene	U		0.000506	0.00298	1	05/27/2021 18:22	WG1678763
p-Isopropyltoluene	U		0.00304	0.00595	1	05/27/2021 18:22	WG1678763
2-Butanone (MEK)	U		0.0756	0.119	1	05/27/2021 18:22	WG1678763
Methylene Chloride	U		0.00790	0.0298	1	05/27/2021 18:22	WG1678763
4-Methyl-2-pentanone (MIBK)	U		0.00271	0.0298	1	05/27/2021 18:22	WG1678763

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000417	0.00119	1	05/27/2021 18:22	WG1678763
Naphthalene	U		0.00581	0.0149	1	05/27/2021 18:22	WG1678763
n-Propylbenzene	U		0.00113	0.00595	1	05/27/2021 18:22	WG1678763
Styrene	U		0.000273	0.0149	1	05/27/2021 18:22	WG1678763
1,1,1,2-Tetrachloroethane	U		0.00113	0.00298	1	05/27/2021 18:22	WG1678763
1,1,2,2-Tetrachloroethane	U		0.000827	0.00298	1	05/27/2021 18:22	WG1678763
1,1,2-Trichlorotrifluoroethane	U		0.000898	0.00298	1	05/27/2021 18:22	WG1678763
Tetrachloroethene	0.138		0.00107	0.00298	1	05/27/2021 18:22	WG1678763
Toluene	0.00404	J	0.00155	0.00595	1	05/27/2021 18:22	WG1678763
1,2,3-Trichlorobenzene	U		0.00873	0.0149	1	05/27/2021 18:22	WG1678763
1,2,4-Trichlorobenzene	U		0.00524	0.0149	1	05/27/2021 18:22	WG1678763
1,1,1-Trichloroethane	U		0.00110	0.00298	1	05/27/2021 18:22	WG1678763
1,1,2-Trichloroethane	U		0.000711	0.00298	1	05/27/2021 18:22	WG1678763
Trichloroethene	0.0215		0.000695	0.00119	1	05/27/2021 18:22	WG1678763
Trichlorofluoromethane	U		0.000984	0.00298	1	05/27/2021 18:22	WG1678763
1,2,3-Trichloropropane	U		0.00193	0.0149	1	05/27/2021 18:22	WG1678763
1,2,4-Trimethylbenzene	U		0.00188	0.00595	1	05/27/2021 18:22	WG1678763
1,2,3-Trimethylbenzene	U		0.00188	0.00595	1	05/27/2021 18:22	WG1678763
1,3,5-Trimethylbenzene	U		0.00238	0.00595	1	05/27/2021 18:22	WG1678763
Vinyl acetate	0.00576	J	0.00302	0.0149	1	05/27/2021 18:22	WG1678763
Vinyl chloride	0.0150		0.00138	0.00298	1	05/27/2021 18:22	WG1678763
Xylenes, Total	0.00211	J	0.00105	0.00774	1	05/27/2021 18:22	WG1678763
(S) Toluene-d8	*94.8*			*75.0-131*		*05/27/2021 18:22*	WG1678763
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*		*05/27/2021 18:22*	WG1678763
(S) 1,2-Dichloroethane-d4	*83.6*			*70.0-130*		*05/27/2021 18:22*	WG1678763

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.3		1	05/26/2021 10:14	WG1677076

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0464	0.0635	1	05/27/2021 18:43	WG1678763
Acrylonitrile	U		0.00459	0.0159	1	05/27/2021 18:43	WG1678763
Benzene	U		0.000594	0.00127	1	05/27/2021 18:43	WG1678763
Bromobenzene	U		0.00114	0.0159	1	05/27/2021 18:43	WG1678763
Bromodichloromethane	U		0.000921	0.00318	1	05/27/2021 18:43	WG1678763
Bromochloromethane	U		0.000717	0.00635	1	05/27/2021 18:43	WG1678763
Bromoform	U		0.00149	0.0318	1	05/27/2021 18:43	WG1678763
Bromomethane	U		0.00250	0.0159	1	05/27/2021 18:43	WG1678763
n-Butylbenzene	U		0.00667	0.0159	1	05/27/2021 18:43	WG1678763
sec-Butylbenzene	U		0.00366	0.0159	1	05/27/2021 18:43	WG1678763
tert-Butylbenzene	U		0.00248	0.00635	1	05/27/2021 18:43	WG1678763
Carbon disulfide	U		0.000890	0.0159	1	05/27/2021 18:43	WG1678763
Carbon tetrachloride	U		0.00114	0.00635	1	05/27/2021 18:43	WG1678763
Chlorobenzene	U		0.000267	0.00318	1	05/27/2021 18:43	WG1678763
Chlorodibromomethane	U		0.000778	0.00318	1	05/27/2021 18:43	WG1678763
Chloroethane	U		0.00216	0.00635	1	05/27/2021 18:43	WG1678763
Chloroform	U		0.00131	0.00318	1	05/27/2021 18:43	WG1678763
Chloromethane	U		0.00553	0.0159	1	05/27/2021 18:43	WG1678763
2-Chlorotoluene	U		0.00110	0.00318	1	05/27/2021 18:43	WG1678763
4-Chlorotoluene	U		0.000572	0.00635	1	05/27/2021 18:43	WG1678763
1,2-Dibromo-3-Chloropropane	U		0.00496	0.0318	1	05/27/2021 18:43	WG1678763
1,2-Dibromoethane	U		0.000824	0.00318	1	05/27/2021 18:43	WG1678763
Dibromomethane	U		0.000953	0.00635	1	05/27/2021 18:43	WG1678763
1,2-Dichlorobenzene	U		0.000540	0.00635	1	05/27/2021 18:43	WG1678763
1,3-Dichlorobenzene	U		0.000763	0.00635	1	05/27/2021 18:43	WG1678763
1,4-Dichlorobenzene	U		0.000890	0.00635	1	05/27/2021 18:43	WG1678763
Dichlorodifluoromethane	U		0.00205	0.00318	1	05/27/2021 18:43	WG1678763
1,1-Dichloroethane	U		0.000624	0.00318	1	05/27/2021 18:43	WG1678763
1,2-Dichloroethane	U		0.000825	0.00318	1	05/27/2021 18:43	WG1678763
1,1-Dichloroethene	U		0.000770	0.00318	1	05/27/2021 18:43	WG1678763
cis-1,2-Dichloroethene	0.00183	J	0.000933	0.00318	1	05/27/2021 18:43	WG1678763
trans-1,2-Dichloroethene	U		0.00132	0.00635	1	05/27/2021 18:43	WG1678763
1,2-Dichloropropane	U		0.00180	0.00635	1	05/27/2021 18:43	WG1678763
1,1-Dichloropropene	U		0.00103	0.00318	1	05/27/2021 18:43	WG1678763
1,3-Dichloropropane	U		0.000637	0.00635	1	05/27/2021 18:43	WG1678763
cis-1,3-Dichloropropene	U		0.000962	0.00318	1	05/27/2021 18:43	WG1678763
trans-1,3-Dichloropropene	U		0.00145	0.00635	1	05/27/2021 18:43	WG1678763
trans-1,4-Dichloro-2-butene	U		0.00236	0.00635	1	05/27/2021 18:43	WG1678763
2,2-Dichloropropane	U		0.00175	0.00318	1	05/27/2021 18:43	WG1678763
Di-isopropyl ether	U		0.000521	0.00127	1	05/27/2021 18:43	WG1678763
Ethylbenzene	U		0.000937	0.00318	1	05/27/2021 18:43	WG1678763
Hexachloro-1,3-butadiene	U		0.00763	0.0318	1	05/27/2021 18:43	WG1678763
2-Hexanone	U		0.00427	0.0318	1	05/27/2021 18:43	WG1678763
n-Hexane	U		0.00287	0.00635	1	05/27/2021 18:43	WG1678763
Iodomethane	U		0.00295	0.0159	1	05/27/2021 18:43	WG1678763
Isopropylbenzene	U		0.000540	0.00318	1	05/27/2021 18:43	WG1678763
p-Isopropyltoluene	U		0.00324	0.00635	1	05/27/2021 18:43	WG1678763
2-Butanone (MEK)	U		0.0807	0.127	1	05/27/2021 18:43	WG1678763
Methylene Chloride	U		0.00844	0.0318	1	05/27/2021 18:43	WG1678763
4-Methyl-2-pentanone (MIBK)	U		0.00290	0.0318	1	05/27/2021 18:43	WG1678763

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000445	0.00127	1	05/27/2021 18:43	WG1678763
Naphthalene	U		0.00620	0.0159	1	05/27/2021 18:43	WG1678763
n-Propylbenzene	U		0.00121	0.00635	1	05/27/2021 18:43	WG1678763
Styrene	U		0.000291	0.0159	1	05/27/2021 18:43	WG1678763
1,1,1,2-Tetrachloroethane	U		0.00120	0.00318	1	05/27/2021 18:43	WG1678763
1,1,2,2-Tetrachloroethane	U		0.000883	0.00318	1	05/27/2021 18:43	WG1678763
1,1,2-Trichlorotrifluoroethane	U		0.000958	0.00318	1	05/27/2021 18:43	WG1678763
Tetrachloroethene	0.00224	J	0.00114	0.00318	1	05/27/2021 18:43	WG1678763
Toluene	U		0.00165	0.00635	1	05/27/2021 18:43	WG1678763
1,2,3-Trichlorobenzene	U		0.00932	0.0159	1	05/27/2021 18:43	WG1678763
1,2,4-Trichlorobenzene	U		0.00559	0.0159	1	05/27/2021 18:43	WG1678763
1,1,1-Trichloroethane	U		0.00117	0.00318	1	05/27/2021 18:43	WG1678763
1,1,2-Trichloroethane	U		0.000759	0.00318	1	05/27/2021 18:43	WG1678763
Trichloroethene	U		0.000742	0.00127	1	05/27/2021 18:43	WG1678763
Trichlorofluoromethane	U		0.00105	0.00318	1	05/27/2021 18:43	WG1678763
1,2,3-Trichloropropane	U		0.00206	0.0159	1	05/27/2021 18:43	WG1678763
1,2,4-Trimethylbenzene	U		0.00201	0.00635	1	05/27/2021 18:43	WG1678763
1,2,3-Trimethylbenzene	U		0.00201	0.00635	1	05/27/2021 18:43	WG1678763
1,3,5-Trimethylbenzene	U		0.00254	0.00635	1	05/27/2021 18:43	WG1678763
Vinyl acetate	0.00580	J	0.00323	0.0159	1	05/27/2021 18:43	WG1678763
Vinyl chloride	U		0.00147	0.00318	1	05/27/2021 18:43	WG1678763
Xylenes, Total	U		0.00112	0.00826	1	05/27/2021 18:43	WG1678763
(S) Toluene-d8	*96.3*			*75.0-131*		*05/27/2021 18:43*	WG1678763
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*05/27/2021 18:43*	WG1678763
(S) 1,2-Dichloroethane-d4	*92.0*			*70.0-130*		*05/27/2021 18:43*	WG1678763

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.1		1	05/26/2021 10:14	WG1677076

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0513	0.0702	1	05/27/2021 19:03	WG1678763
Acrylonitrile	U		0.00507	0.0176	1	05/27/2021 19:03	WG1678763
Benzene	U		0.000656	0.00140	1	05/27/2021 19:03	WG1678763
Bromobenzene	U		0.00126	0.0176	1	05/27/2021 19:03	WG1678763
Bromodichloromethane	U		0.00102	0.00351	1	05/27/2021 19:03	WG1678763
Bromochloromethane	U		0.000792	0.00702	1	05/27/2021 19:03	WG1678763
Bromoform	U		0.00164	0.0351	1	05/27/2021 19:03	WG1678763
Bromomethane	U		0.00277	0.0176	1	05/27/2021 19:03	WG1678763
n-Butylbenzene	U		0.00737	0.0176	1	05/27/2021 19:03	WG1678763
sec-Butylbenzene	U		0.00404	0.0176	1	05/27/2021 19:03	WG1678763
tert-Butylbenzene	U		0.00274	0.00702	1	05/27/2021 19:03	WG1678763
Carbon disulfide	U		0.000983	0.0176	1	05/27/2021 19:03	WG1678763
Carbon tetrachloride	U		0.00126	0.00702	1	05/27/2021 19:03	WG1678763
Chlorobenzene	U		0.000295	0.00351	1	05/27/2021 19:03	WG1678763
Chlorodibromomethane	U		0.000859	0.00351	1	05/27/2021 19:03	WG1678763
Chloroethane	U		0.00239	0.00702	1	05/27/2021 19:03	WG1678763
Chloroform	U		0.00145	0.00351	1	05/27/2021 19:03	WG1678763
Chloromethane	U		0.00611	0.0176	1	05/27/2021 19:03	WG1678763
2-Chlorotoluene	U		0.00121	0.00351	1	05/27/2021 19:03	WG1678763
4-Chlorotoluene	U		0.000632	0.00702	1	05/27/2021 19:03	WG1678763
1,2-Dibromo-3-Chloropropane	U		0.00548	0.0351	1	05/27/2021 19:03	WG1678763
1,2-Dibromoethane	U		0.000910	0.00351	1	05/27/2021 19:03	WG1678763
Dibromomethane	U		0.00105	0.00702	1	05/27/2021 19:03	WG1678763
1,2-Dichlorobenzene	U		0.000597	0.00702	1	05/27/2021 19:03	WG1678763
1,3-Dichlorobenzene	U		0.000843	0.00702	1	05/27/2021 19:03	WG1678763
1,4-Dichlorobenzene	U		0.000983	0.00702	1	05/27/2021 19:03	WG1678763
Dichlorodifluoromethane	U		0.00226	0.00351	1	05/27/2021 19:03	WG1678763
1,1-Dichloroethane	U		0.000690	0.00351	1	05/27/2021 19:03	WG1678763
1,2-Dichloroethane	U		0.000911	0.00351	1	05/27/2021 19:03	WG1678763
1,1-Dichloroethene	0.00558		0.000851	0.00351	1	05/27/2021 19:03	WG1678763
cis-1,2-Dichloroethene	0.954		0.00103	0.00351	1	05/27/2021 19:03	WG1678763
trans-1,2-Dichloroethene	0.00465	J	0.00146	0.00702	1	05/27/2021 19:03	WG1678763
1,2-Dichloropropane	U		0.00199	0.00702	1	05/27/2021 19:03	WG1678763
1,1-Dichloropropene	U		0.00114	0.00351	1	05/27/2021 19:03	WG1678763
1,3-Dichloropropane	U		0.000704	0.00702	1	05/27/2021 19:03	WG1678763
cis-1,3-Dichloropropene	U		0.00106	0.00351	1	05/27/2021 19:03	WG1678763
trans-1,3-Dichloropropene	U		0.00160	0.00702	1	05/27/2021 19:03	WG1678763
trans-1,4-Dichloro-2-butene	U		0.00261	0.00702	1	05/27/2021 19:03	WG1678763
2,2-Dichloropropane	U		0.00194	0.00351	1	05/27/2021 19:03	WG1678763
Di-isopropyl ether	U		0.000576	0.00140	1	05/27/2021 19:03	WG1678763
Ethylbenzene	U		0.00104	0.00351	1	05/27/2021 19:03	WG1678763
Hexachloro-1,3-butadiene	U		0.00843	0.0351	1	05/27/2021 19:03	WG1678763
2-Hexanone	U		0.00472	0.0351	1	05/27/2021 19:03	WG1678763
n-Hexane	U		0.00317	0.00702	1	05/27/2021 19:03	WG1678763
Iodomethane	U		0.00326	0.0176	1	05/27/2021 19:03	WG1678763
Isopropylbenzene	U		0.000597	0.00351	1	05/27/2021 19:03	WG1678763
p-Isopropyltoluene	U		0.00358	0.00702	1	05/27/2021 19:03	WG1678763
2-Butanone (MEK)	U		0.0892	0.140	1	05/27/2021 19:03	WG1678763
Methylene Chloride	U		0.00933	0.0351	1	05/27/2021 19:03	WG1678763
4-Methyl-2-pentanone (MIBK)	U		0.00320	0.0351	1	05/27/2021 19:03	WG1678763

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000492	0.00140	1	05/27/2021 19:03	WG1678763
Naphthalene	U		0.00685	0.0176	1	05/27/2021 19:03	WG1678763
n-Propylbenzene	U		0.00133	0.00702	1	05/27/2021 19:03	WG1678763
Styrene	U		0.000322	0.0176	1	05/27/2021 19:03	WG1678763
1,1,1,2-Tetrachloroethane	U		0.00133	0.00351	1	05/27/2021 19:03	WG1678763
1,1,2,2-Tetrachloroethane	U		0.000976	0.00351	1	05/27/2021 19:03	WG1678763
1,1,2-Trichlorotrifluoroethane	U		0.00106	0.00351	1	05/27/2021 19:03	WG1678763
Tetrachloroethene	1.36		0.00126	0.00351	1	05/27/2021 19:03	WG1678763
Toluene	U		0.00183	0.00702	1	05/27/2021 19:03	WG1678763
1,2,3-Trichlorobenzene	U		0.0103	0.0176	1	05/27/2021 19:03	WG1678763
1,2,4-Trichlorobenzene	U		0.00618	0.0176	1	05/27/2021 19:03	WG1678763
1,1,1-Trichloroethane	U		0.00130	0.00351	1	05/27/2021 19:03	WG1678763
1,1,2-Trichloroethane	U		0.000838	0.00351	1	05/27/2021 19:03	WG1678763
Trichloroethene	0.699		0.000820	0.00140	1	05/27/2021 19:03	WG1678763
Trichlorofluoromethane	U		0.00116	0.00351	1	05/27/2021 19:03	WG1678763
1,2,3-Trichloropropane	U		0.00228	0.0176	1	05/27/2021 19:03	WG1678763
1,2,4-Trimethylbenzene	U		0.00222	0.00702	1	05/27/2021 19:03	WG1678763
1,2,3-Trimethylbenzene	U		0.00222	0.00702	1	05/27/2021 19:03	WG1678763
1,3,5-Trimethylbenzene	U		0.00281	0.00702	1	05/27/2021 19:03	WG1678763
Vinyl acetate	U		0.00357	0.0176	1	05/27/2021 19:03	WG1678763
Vinyl chloride	0.466		0.00163	0.00351	1	05/27/2021 19:03	WG1678763
Xylenes, Total	U		0.00124	0.00913	1	05/27/2021 19:03	WG1678763
(S) Toluene-d8	*101*			*75.0-131*		*05/27/2021 19:03*	WG1678763
(S) 4-Bromofluorobenzene	*99.8*			*67.0-138*		*05/27/2021 19:03*	WG1678763
(S) 1,2-Dichloroethane-d4	*79.6*			*70.0-130*		*05/27/2021 19:03*	WG1678763

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.8		1	05/26/2021 10:14	WG1677076

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0443	0.0607	1	05/27/2021 19:24	WG1678763
Acrylonitrile	0.00627	J	0.00438	0.0152	1	05/27/2021 19:24	WG1678763
Benzene	U		0.000567	0.00121	1	05/27/2021 19:24	WG1678763
Bromobenzene	U		0.00109	0.0152	1	05/27/2021 19:24	WG1678763
Bromodichloromethane	U		0.000880	0.00303	1	05/27/2021 19:24	WG1678763
Bromochloromethane	U		0.000685	0.00607	1	05/27/2021 19:24	WG1678763
Bromoform	U		0.00142	0.0303	1	05/27/2021 19:24	WG1678763
Bromomethane	U		0.00239	0.0152	1	05/27/2021 19:24	WG1678763
n-Butylbenzene	U		0.00637	0.0152	1	05/27/2021 19:24	WG1678763
sec-Butylbenzene	U		0.00350	0.0152	1	05/27/2021 19:24	WG1678763
tert-Butylbenzene	U		0.00237	0.00607	1	05/27/2021 19:24	WG1678763
Carbon disulfide	0.00144	J	0.000850	0.0152	1	05/27/2021 19:24	WG1678763
Carbon tetrachloride	U		0.00109	0.00607	1	05/27/2021 19:24	WG1678763
Chlorobenzene	U		0.000255	0.00303	1	05/27/2021 19:24	WG1678763
Chlorodibromomethane	U		0.000743	0.00303	1	05/27/2021 19:24	WG1678763
Chloroethane	U		0.00206	0.00607	1	05/27/2021 19:24	WG1678763
Chloroform	U		0.00125	0.00303	1	05/27/2021 19:24	WG1678763
Chloromethane	U		0.00528	0.0152	1	05/27/2021 19:24	WG1678763
2-Chlorotoluene	U		0.00105	0.00303	1	05/27/2021 19:24	WG1678763
4-Chlorotoluene	U		0.000546	0.00607	1	05/27/2021 19:24	WG1678763
1,2-Dibromo-3-Chloropropane	U		0.00473	0.0303	1	05/27/2021 19:24	WG1678763
1,2-Dibromoethane	U		0.000786	0.00303	1	05/27/2021 19:24	WG1678763
Dibromomethane	U		0.000910	0.00607	1	05/27/2021 19:24	WG1678763
1,2-Dichlorobenzene	U		0.000516	0.00607	1	05/27/2021 19:24	WG1678763
1,3-Dichlorobenzene	U		0.000728	0.00607	1	05/27/2021 19:24	WG1678763
1,4-Dichlorobenzene	U		0.000850	0.00607	1	05/27/2021 19:24	WG1678763
Dichlorodifluoromethane	U		0.00195	0.00303	1	05/27/2021 19:24	WG1678763
1,1-Dichloroethane	U		0.000596	0.00303	1	05/27/2021 19:24	WG1678763
1,2-Dichloroethane	U		0.000788	0.00303	1	05/27/2021 19:24	WG1678763
1,1-Dichloroethene	0.00121	J	0.000735	0.00303	1	05/27/2021 19:24	WG1678763
cis-1,2-Dichloroethene	0.661		0.000891	0.00303	1	05/27/2021 19:24	WG1678763
trans-1,2-Dichloroethene	0.00216	J	0.00126	0.00607	1	05/27/2021 19:24	WG1678763
1,2-Dichloropropane	U		0.00172	0.00607	1	05/27/2021 19:24	WG1678763
1,1-Dichloropropene	U		0.000982	0.00303	1	05/27/2021 19:24	WG1678763
1,3-Dichloropropane	U		0.000608	0.00607	1	05/27/2021 19:24	WG1678763
cis-1,3-Dichloropropene	U		0.000919	0.00303	1	05/27/2021 19:24	WG1678763
trans-1,3-Dichloropropene	U		0.00138	0.00607	1	05/27/2021 19:24	WG1678763
trans-1,4-Dichloro-2-butene	U		0.00226	0.00607	1	05/27/2021 19:24	WG1678763
2,2-Dichloropropane	U		0.00167	0.00303	1	05/27/2021 19:24	WG1678763
Di-isopropyl ether	U		0.000498	0.00121	1	05/27/2021 19:24	WG1678763
Ethylbenzene	U		0.000894	0.00303	1	05/27/2021 19:24	WG1678763
Hexachloro-1,3-butadiene	U		0.00728	0.0303	1	05/27/2021 19:24	WG1678763
2-Hexanone	U		0.00408	0.0303	1	05/27/2021 19:24	WG1678763
n-Hexane	U		0.00274	0.00607	1	05/27/2021 19:24	WG1678763
Iodomethane	U		0.00282	0.0152	1	05/27/2021 19:24	WG1678763
Isopropylbenzene	U		0.000516	0.00303	1	05/27/2021 19:24	WG1678763
p-Isopropyltoluene	U		0.00309	0.00607	1	05/27/2021 19:24	WG1678763
2-Butanone (MEK)	U		0.0771	0.121	1	05/27/2021 19:24	WG1678763
Methylene Chloride	U		0.00806	0.0303	1	05/27/2021 19:24	WG1678763
4-Methyl-2-pentanone (MIBK)	U		0.00277	0.0303	1	05/27/2021 19:24	WG1678763

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000425	0.00121	1	05/27/2021 19:24	WG1678763
Naphthalene	U		0.00592	0.0152	1	05/27/2021 19:24	WG1678763
n-Propylbenzene	U		0.00115	0.00607	1	05/27/2021 19:24	WG1678763
Styrene	U		0.000278	0.0152	1	05/27/2021 19:24	WG1678763
1,1,1,2-Tetrachloroethane	U		0.00115	0.00303	1	05/27/2021 19:24	WG1678763
1,1,2,2-Tetrachloroethane	U		0.000843	0.00303	1	05/27/2021 19:24	WG1678763
1,1,2-Trichlorotrifluoroethane	U		0.000915	0.00303	1	05/27/2021 19:24	WG1678763
Tetrachloroethene	4.43		0.0109	0.0303	10	05/29/2021 18:22	WG1679857
Toluene	0.00187	J	0.00158	0.00607	1	05/27/2021 19:24	WG1678763
1,2,3-Trichlorobenzene	U		0.00890	0.0152	1	05/27/2021 19:24	WG1678763
1,2,4-Trichlorobenzene	U		0.00534	0.0152	1	05/27/2021 19:24	WG1678763
1,1,1-Trichloroethane	U		0.00112	0.00303	1	05/27/2021 19:24	WG1678763
1,1,2-Trichloroethane	U		0.000725	0.00303	1	05/27/2021 19:24	WG1678763
Trichloroethene	0.415		0.000709	0.00121	1	05/27/2021 19:24	WG1678763
Trichlorofluoromethane	U		0.00100	0.00303	1	05/27/2021 19:24	WG1678763
1,2,3-Trichloropropane	U		0.00197	0.0152	1	05/27/2021 19:24	WG1678763
1,2,4-Trimethylbenzene	U		0.00192	0.00607	1	05/27/2021 19:24	WG1678763
1,2,3-Trimethylbenzene	U		0.00192	0.00607	1	05/27/2021 19:24	WG1678763
1,3,5-Trimethylbenzene	U		0.00243	0.00607	1	05/27/2021 19:24	WG1678763
Vinyl acetate	0.00541	J	0.00308	0.0152	1	05/27/2021 19:24	WG1678763
Vinyl chloride	0.124		0.00141	0.00303	1	05/27/2021 19:24	WG1678763
Xylenes, Total	0.00161	J	0.00107	0.00789	1	05/27/2021 19:24	WG1678763
(S) Toluene-d8	*100*			*75.0-131*		*05/27/2021 19:24*	WG1678763
(S) Toluene-d8	*103*			*75.0-131*		*05/29/2021 18:22*	WG1679857
(S) 4-Bromofluorobenzene	*93.9*			*67.0-138*		*05/27/2021 19:24*	WG1678763
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*05/29/2021 18:22*	WG1679857
(S) 1,2-Dichloroethane-d4	*80.8*			*70.0-130*		*05/27/2021 19:24*	WG1678763
(S) 1,2-Dichloroethane-d4	*86.3*			*70.0-130*		*05/29/2021 18:22*	WG1679857

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	05/26/2021 10:14	WG1677076

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0428	0.0586	1	05/27/2021 19:45	WG1678763
Acrylonitrile	U		0.00423	0.0146	1	05/27/2021 19:45	WG1678763
Benzene	U		0.000547	0.00117	1	05/27/2021 19:45	WG1678763
Bromobenzene	U		0.00105	0.0146	1	05/27/2021 19:45	WG1678763
Bromodichloromethane	U		0.000849	0.00293	1	05/27/2021 19:45	WG1678763
Bromochloromethane	U		0.000661	0.00586	1	05/27/2021 19:45	WG1678763
Bromoform	U		0.00137	0.0293	1	05/27/2021 19:45	WG1678763
Bromomethane	U		0.00231	0.0146	1	05/27/2021 19:45	WG1678763
n-Butylbenzene	U		0.00615	0.0146	1	05/27/2021 19:45	WG1678763
sec-Butylbenzene	U		0.00337	0.0146	1	05/27/2021 19:45	WG1678763
tert-Butylbenzene	U		0.00228	0.00586	1	05/27/2021 19:45	WG1678763
Carbon disulfide	0.00213	J	0.000820	0.0146	1	05/27/2021 19:45	WG1678763
Carbon tetrachloride	U		0.00105	0.00586	1	05/27/2021 19:45	WG1678763
Chlorobenzene	U		0.000246	0.00293	1	05/27/2021 19:45	WG1678763
Chlorodibromomethane	U		0.000717	0.00293	1	05/27/2021 19:45	WG1678763
Chloroethane	U		0.00199	0.00586	1	05/27/2021 19:45	WG1678763
Chloroform	U		0.00121	0.00293	1	05/27/2021 19:45	WG1678763
Chloromethane	U		0.00510	0.0146	1	05/27/2021 19:45	WG1678763
2-Chlorotoluene	U		0.00101	0.00293	1	05/27/2021 19:45	WG1678763
4-Chlorotoluene	U		0.000527	0.00586	1	05/27/2021 19:45	WG1678763
1,2-Dibromo-3-Chloropropane	U		0.00457	0.0293	1	05/27/2021 19:45	WG1678763
1,2-Dibromoethane	U		0.000759	0.00293	1	05/27/2021 19:45	WG1678763
Dibromomethane	U		0.000879	0.00586	1	05/27/2021 19:45	WG1678763
1,2-Dichlorobenzene	U		0.000498	0.00586	1	05/27/2021 19:45	WG1678763
1,3-Dichlorobenzene	U		0.000703	0.00586	1	05/27/2021 19:45	WG1678763
1,4-Dichlorobenzene	U		0.000820	0.00586	1	05/27/2021 19:45	WG1678763
Dichlorodifluoromethane	U		0.00189	0.00293	1	05/27/2021 19:45	WG1678763
1,1-Dichloroethane	U		0.000575	0.00293	1	05/27/2021 19:45	WG1678763
1,2-Dichloroethane	U		0.000760	0.00293	1	05/27/2021 19:45	WG1678763
1,1-Dichloroethene	0.00111	J	0.000710	0.00293	1	05/27/2021 19:45	WG1678763
cis-1,2-Dichloroethene	0.148		0.000860	0.00293	1	05/27/2021 19:45	WG1678763
trans-1,2-Dichloroethene	U		0.00122	0.00586	1	05/27/2021 19:45	WG1678763
1,2-Dichloropropane	U		0.00166	0.00586	1	05/27/2021 19:45	WG1678763
1,1-Dichloropropene	U		0.000948	0.00293	1	05/27/2021 19:45	WG1678763
1,3-Dichloropropane	U		0.000587	0.00586	1	05/27/2021 19:45	WG1678763
cis-1,3-Dichloropropene	U		0.000887	0.00293	1	05/27/2021 19:45	WG1678763
trans-1,3-Dichloropropene	U		0.00134	0.00586	1	05/27/2021 19:45	WG1678763
trans-1,4-Dichloro-2-butene	U		0.00218	0.00586	1	05/27/2021 19:45	WG1678763
2,2-Dichloropropane	U		0.00162	0.00293	1	05/27/2021 19:45	WG1678763
Di-isopropyl ether	U		0.000480	0.00117	1	05/27/2021 19:45	WG1678763
Ethylbenzene	U		0.000864	0.00293	1	05/27/2021 19:45	WG1678763
Hexachloro-1,3-butadiene	U		0.00703	0.0293	1	05/27/2021 19:45	WG1678763
2-Hexanone	U		0.00394	0.0293	1	05/27/2021 19:45	WG1678763
n-Hexane	0.00486	J	0.00265	0.00586	1	05/27/2021 19:45	WG1678763
Iodomethane	U		0.00272	0.0146	1	05/27/2021 19:45	WG1678763
Isopropylbenzene	U		0.000498	0.00293	1	05/27/2021 19:45	WG1678763
p-Isopropyltoluene	U		0.00299	0.00586	1	05/27/2021 19:45	WG1678763
2-Butanone (MEK)	U		0.0744	0.117	1	05/27/2021 19:45	WG1678763
Methylene Chloride	U		0.00778	0.0293	1	05/27/2021 19:45	WG1678763
4-Methyl-2-pentanone (MIBK)	U		0.00267	0.0293	1	05/27/2021 19:45	WG1678763

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000410	0.00117	1	05/27/2021 19:45	WG1678763
Naphthalene	U		0.00572	0.0146	1	05/27/2021 19:45	WG1678763
n-Propylbenzene	U		0.00111	0.00586	1	05/27/2021 19:45	WG1678763
Styrene	U		0.000268	0.0146	1	05/27/2021 19:45	WG1678763
1,1,1,2-Tetrachloroethane	U		0.00111	0.00293	1	05/27/2021 19:45	WG1678763
1,1,2,2-Tetrachloroethane	U		0.000814	0.00293	1	05/27/2021 19:45	WG1678763
1,1,2-Trichlorotrifluoroethane	U		0.000883	0.00293	1	05/27/2021 19:45	WG1678763
Tetrachloroethene	1.98		0.00419	0.0117	4	05/29/2021 18:41	WG1679857
Toluene	0.00170	J	0.00152	0.00586	1	05/27/2021 19:45	WG1678763
1,2,3-Trichlorobenzene	U		0.00859	0.0146	1	05/27/2021 19:45	WG1678763
1,2,4-Trichlorobenzene	U		0.00516	0.0146	1	05/27/2021 19:45	WG1678763
1,1,1-Trichloroethane	U		0.00108	0.00293	1	05/27/2021 19:45	WG1678763
1,1,2-Trichloroethane	U		0.000699	0.00293	1	05/27/2021 19:45	WG1678763
Trichloroethene	0.228		0.000684	0.00117	1	05/27/2021 19:45	WG1678763
Trichlorofluoromethane	U		0.000969	0.00293	1	05/27/2021 19:45	WG1678763
1,2,3-Trichloropropane	U		0.00190	0.0146	1	05/27/2021 19:45	WG1678763
1,2,4-Trimethylbenzene	U		0.00185	0.00586	1	05/27/2021 19:45	WG1678763
1,2,3-Trimethylbenzene	U		0.00185	0.00586	1	05/27/2021 19:45	WG1678763
1,3,5-Trimethylbenzene	U		0.00234	0.00586	1	05/27/2021 19:45	WG1678763
Vinyl acetate	U		0.00298	0.0146	1	05/27/2021 19:45	WG1678763
Vinyl chloride	0.0149		0.00136	0.00293	1	05/27/2021 19:45	WG1678763
Xylenes, Total	0.00191	J	0.00103	0.00762	1	05/27/2021 19:45	WG1678763
(S) Toluene-d8	*98.7*			*75.0-131*		*05/27/2021 19:45*	WG1678763
(S) Toluene-d8	*103*			*75.0-131*		*05/29/2021 18:41*	WG1679857
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*		*05/27/2021 19:45*	WG1678763
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*05/29/2021 18:41*	WG1679857
(S) 1,2-Dichloroethane-d4	*78.1*			*70.0-130*		*05/27/2021 19:45*	WG1678763
(S) 1,2-Dichloroethane-d4	*88.9*			*70.0-130*		*05/29/2021 18:41*	WG1679857

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	05/26/2021 10:14	WG1677076

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0426	0.0584	1	05/27/2021 20:05	WG1678763
Acrylonitrile	U		0.00422	0.0146	1	05/27/2021 20:05	WG1678763
Benzene	U		0.000545	0.00117	1	05/27/2021 20:05	WG1678763
Bromobenzene	U		0.00105	0.0146	1	05/27/2021 20:05	WG1678763
Bromodichloromethane	U		0.000847	0.00292	1	05/27/2021 20:05	WG1678763
Bromochloromethane	U		0.000659	0.00584	1	05/27/2021 20:05	WG1678763
Bromoform	U		0.00137	0.0292	1	05/27/2021 20:05	WG1678763
Bromomethane	U		0.00230	0.0146	1	05/27/2021 20:05	WG1678763
n-Butylbenzene	U		0.00613	0.0146	1	05/27/2021 20:05	WG1678763
sec-Butylbenzene	U		0.00336	0.0146	1	05/27/2021 20:05	WG1678763
tert-Butylbenzene	U		0.00228	0.00584	1	05/27/2021 20:05	WG1678763
Carbon disulfide	U		0.000817	0.0146	1	05/27/2021 20:05	WG1678763
Carbon tetrachloride	U		0.00105	0.00584	1	05/27/2021 20:05	WG1678763
Chlorobenzene	U		0.000245	0.00292	1	05/27/2021 20:05	WG1678763
Chlorodibromomethane	U		0.000715	0.00292	1	05/27/2021 20:05	WG1678763
Chloroethane	U		0.00199	0.00584	1	05/27/2021 20:05	WG1678763
Chloroform	U		0.00120	0.00292	1	05/27/2021 20:05	WG1678763
Chloromethane	U		0.00508	0.0146	1	05/27/2021 20:05	WG1678763
2-Chlorotoluene	U		0.00101	0.00292	1	05/27/2021 20:05	WG1678763
4-Chlorotoluene	U		0.000525	0.00584	1	05/27/2021 20:05	WG1678763
1,2-Dibromo-3-Chloropropane	U		0.00455	0.0292	1	05/27/2021 20:05	WG1678763
1,2-Dibromoethane	U		0.000757	0.00292	1	05/27/2021 20:05	WG1678763
Dibromomethane	U		0.000876	0.00584	1	05/27/2021 20:05	WG1678763
1,2-Dichlorobenzene	U		0.000496	0.00584	1	05/27/2021 20:05	WG1678763
1,3-Dichlorobenzene	U		0.000701	0.00584	1	05/27/2021 20:05	WG1678763
1,4-Dichlorobenzene	U		0.000817	0.00584	1	05/27/2021 20:05	WG1678763
Dichlorodifluoromethane	U		0.00188	0.00292	1	05/27/2021 20:05	WG1678763
1,1-Dichloroethane	U		0.000573	0.00292	1	05/27/2021 20:05	WG1678763
1,2-Dichloroethane	U		0.000758	0.00292	1	05/27/2021 20:05	WG1678763
1,1-Dichloroethene	U		0.000708	0.00292	1	05/27/2021 20:05	WG1678763
cis-1,2-Dichloroethene	0.0516		0.000857	0.00292	1	05/27/2021 20:05	WG1678763
trans-1,2-Dichloroethene	U		0.00121	0.00584	1	05/27/2021 20:05	WG1678763
1,2-Dichloropropane	U		0.00166	0.00584	1	05/27/2021 20:05	WG1678763
1,1-Dichloropropene	U		0.000945	0.00292	1	05/27/2021 20:05	WG1678763
1,3-Dichloropropane	U		0.000585	0.00584	1	05/27/2021 20:05	WG1678763
cis-1,3-Dichloropropene	U		0.000884	0.00292	1	05/27/2021 20:05	WG1678763
trans-1,3-Dichloropropene	U		0.00133	0.00584	1	05/27/2021 20:05	WG1678763
trans-1,4-Dichloro-2-butene	U		0.00217	0.00584	1	05/27/2021 20:05	WG1678763
2,2-Dichloropropane	U		0.00161	0.00292	1	05/27/2021 20:05	WG1678763
Di-isopropyl ether	U		0.000479	0.00117	1	05/27/2021 20:05	WG1678763
Ethylbenzene	U		0.000861	0.00292	1	05/27/2021 20:05	WG1678763
Hexachloro-1,3-butadiene	U		0.00701	0.0292	1	05/27/2021 20:05	WG1678763
2-Hexanone	U		0.00392	0.0292	1	05/27/2021 20:05	WG1678763
n-Hexane	0.00447	J	0.00264	0.00584	1	05/27/2021 20:05	WG1678763
Iodomethane	U		0.00271	0.0146	1	05/27/2021 20:05	WG1678763
Isopropylbenzene	U		0.000496	0.00292	1	05/27/2021 20:05	WG1678763
p-Isopropyltoluene	U		0.00298	0.00584	1	05/27/2021 20:05	WG1678763
2-Butanone (MEK)	U		0.0742	0.117	1	05/27/2021 20:05	WG1678763
Methylene Chloride	U		0.00775	0.0292	1	05/27/2021 20:05	WG1678763
4-Methyl-2-pentanone (MIBK)	U		0.00266	0.0292	1	05/27/2021 20:05	WG1678763

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000409	0.00117	1	05/27/2021 20:05	WG1678763
Naphthalene	U		0.00570	0.0146	1	05/27/2021 20:05	WG1678763
n-Propylbenzene	U		0.00111	0.00584	1	05/27/2021 20:05	WG1678763
Styrene	U		0.000267	0.0146	1	05/27/2021 20:05	WG1678763
1,1,1,2-Tetrachloroethane	U		0.00111	0.00292	1	05/27/2021 20:05	WG1678763
1,1,2,2-Tetrachloroethane	U		0.000812	0.00292	1	05/27/2021 20:05	WG1678763
1,1,2-Trichlorotrifluoroethane	U		0.000880	0.00292	1	05/27/2021 20:05	WG1678763
Tetrachloroethene	0.736		0.00105	0.00292	1	05/27/2021 20:05	WG1678763
Toluene	U		0.00152	0.00584	1	05/27/2021 20:05	WG1678763
1,2,3-Trichlorobenzene	U		0.00856	0.0146	1	05/27/2021 20:05	WG1678763
1,2,4-Trichlorobenzene	U		0.00514	0.0146	1	05/27/2021 20:05	WG1678763
1,1,1-Trichloroethane	U		0.00108	0.00292	1	05/27/2021 20:05	WG1678763
1,1,2-Trichloroethane	U		0.000697	0.00292	1	05/27/2021 20:05	WG1678763
Trichloroethene	0.0726		0.000682	0.00117	1	05/27/2021 20:05	WG1678763
Trichlorofluoromethane	U		0.000966	0.00292	1	05/27/2021 20:05	WG1678763
1,2,3-Trichloropropane	U		0.00189	0.0146	1	05/27/2021 20:05	WG1678763
1,2,4-Trimethylbenzene	U		0.00185	0.00584	1	05/27/2021 20:05	WG1678763
1,2,3-Trimethylbenzene	U		0.00185	0.00584	1	05/27/2021 20:05	WG1678763
1,3,5-Trimethylbenzene	U		0.00234	0.00584	1	05/27/2021 20:05	WG1678763
Vinyl acetate	U		0.00297	0.0146	1	05/27/2021 20:05	WG1678763
Vinyl chloride	0.00481		0.00135	0.00292	1	05/27/2021 20:05	WG1678763
Xylenes, Total	U		0.00103	0.00759	1	05/27/2021 20:05	WG1678763
(S) Toluene-d8	*95.7*			*75.0-131*		*05/27/2021 20:05*	WG1678763
(S) 4-Bromofluorobenzene	*90.4*			*67.0-138*		*05/27/2021 20:05*	WG1678763
(S) 1,2-Dichloroethane-d4	*89.8*			*70.0-130*		*05/27/2021 20:05*	WG1678763

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	05/26/2021 10:14	WG1677076

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.177	0.243	4	05/27/2021 22:15	WG1678763
Acrylonitrile	U		0.0175	0.0606	4	05/27/2021 22:15	WG1678763
Benzene	U		0.00227	0.00485	4	05/27/2021 22:15	WG1678763
Bromobenzene	U		0.00437	0.0606	4	05/27/2021 22:15	WG1678763
Bromodichloromethane	U		0.00352	0.0121	4	05/27/2021 22:15	WG1678763
Bromochloromethane	U		0.00274	0.0243	4	05/27/2021 22:15	WG1678763
Bromoform	U		0.00567	0.121	4	05/27/2021 22:15	WG1678763
Bromomethane	U		0.00956	0.0606	4	05/27/2021 22:15	WG1678763
n-Butylbenzene	U		0.0255	0.0606	4	05/27/2021 22:15	WG1678763
sec-Butylbenzene	U		0.0139	0.0606	4	05/27/2021 22:15	WG1678763
tert-Butylbenzene	U		0.00946	0.0243	4	05/27/2021 22:15	WG1678763
Carbon disulfide	U		0.00340	0.0606	4	05/27/2021 22:15	WG1678763
Carbon tetrachloride	U		0.00435	0.0243	4	05/27/2021 22:15	WG1678763
Chlorobenzene	U		0.00102	0.0121	4	05/27/2021 22:15	WG1678763
Chlorodibromomethane	U		0.00297	0.0121	4	05/27/2021 22:15	WG1678763
Chloroethane	U		0.00825	0.0243	4	05/27/2021 22:15	WG1678763
Chloroform	U		0.00500	0.0121	4	05/27/2021 22:15	WG1678763
Chloromethane	U		0.0211	0.0606	4	05/27/2021 22:15	WG1678763
2-Chlorotoluene	U		0.00420	0.0121	4	05/27/2021 22:15	WG1678763
4-Chlorotoluene	U		0.00218	0.0243	4	05/27/2021 22:15	WG1678763
1,2-Dibromo-3-Chloropropane	U		0.0189	0.121	4	05/27/2021 22:15	WG1678763
1,2-Dibromoethane	U		0.00314	0.0121	4	05/27/2021 22:15	WG1678763
Dibromomethane	U		0.00364	0.0243	4	05/27/2021 22:15	WG1678763
1,2-Dichlorobenzene	U		0.00206	0.0243	4	05/27/2021 22:15	WG1678763
1,3-Dichlorobenzene	U		0.00291	0.0243	4	05/27/2021 22:15	WG1678763
1,4-Dichlorobenzene	U		0.00340	0.0243	4	05/27/2021 22:15	WG1678763
Dichlorodifluoromethane	U		0.00781	0.0121	4	05/27/2021 22:15	WG1678763
1,1-Dichloroethane	U		0.00238	0.0121	4	05/27/2021 22:15	WG1678763
1,2-Dichloroethane	U		0.00315	0.0121	4	05/27/2021 22:15	WG1678763
1,1-Dichloroethene	U		0.00293	0.0121	4	05/27/2021 22:15	WG1678763
cis-1,2-Dichloroethene	0.0694		0.00356	0.0121	4	05/27/2021 22:15	WG1678763
trans-1,2-Dichloroethene	U		0.00504	0.0243	4	05/27/2021 22:15	WG1678763
1,2-Dichloropropane	U		0.00689	0.0243	4	05/27/2021 22:15	WG1678763
1,1-Dichloropropene	U		0.00393	0.0121	4	05/27/2021 22:15	WG1678763
1,3-Dichloropropane	U		0.00243	0.0243	4	05/27/2021 22:15	WG1678763
cis-1,3-Dichloropropene	U		0.00367	0.0121	4	05/27/2021 22:15	WG1678763
trans-1,3-Dichloropropene	U		0.00553	0.0243	4	05/27/2021 22:15	WG1678763
trans-1,4-Dichloro-2-butene	U		0.00902	0.0243	4	05/27/2021 22:15	WG1678763
2,2-Dichloropropane	U		0.00669	0.0121	4	05/27/2021 22:15	WG1678763
Di-isopropyl ether	U		0.00199	0.00485	4	05/27/2021 22:15	WG1678763
Ethylbenzene	U		0.00358	0.0121	4	05/27/2021 22:15	WG1678763
Hexachloro-1,3-butadiene	U		0.0291	0.121	4	05/27/2021 22:15	WG1678763
2-Hexanone	U		0.0162	0.121	4	05/27/2021 22:15	WG1678763
n-Hexane	0.0244		0.0110	0.0243	4	05/27/2021 22:15	WG1678763
Iodomethane	U		0.0113	0.0606	4	05/27/2021 22:15	WG1678763
Isopropylbenzene	U		0.00206	0.0121	4	05/27/2021 22:15	WG1678763
p-Isopropyltoluene	U		0.0124	0.0243	4	05/27/2021 22:15	WG1678763
2-Butanone (MEK)	U		0.308	0.485	4	05/27/2021 22:15	WG1678763
Methylene Chloride	U		0.0323	0.121	4	05/27/2021 22:15	WG1678763
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.121	4	05/27/2021 22:15	WG1678763

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00170	0.00485	4	05/27/2021 22:15	WG1678763
Naphthalene	U		0.0236	0.0606	4	05/27/2021 22:15	WG1678763
n-Propylbenzene	U		0.00461	0.0243	4	05/27/2021 22:15	WG1678763
Styrene	U		0.00111	0.0606	4	05/27/2021 22:15	WG1678763
1,1,1,2-Tetrachloroethane	U		0.00460	0.0121	4	05/27/2021 22:15	WG1678763
1,1,2,2-Tetrachloroethane	U		0.00337	0.0121	4	05/27/2021 22:15	WG1678763
1,1,2-Trichlorotrifluoroethane	U		0.00366	0.0121	4	05/27/2021 22:15	WG1678763
Tetrachloroethene	0.483		0.00434	0.0121	4	05/27/2021 22:15	WG1678763
Toluene	U		0.00631	0.0243	4	05/27/2021 22:15	WG1678763
1,2,3-Trichlorobenzene	U		0.0355	0.0606	4	05/27/2021 22:15	WG1678763
1,2,4-Trichlorobenzene	U		0.0213	0.0606	4	05/27/2021 22:15	WG1678763
1,1,1-Trichloroethane	U		0.00447	0.0121	4	05/27/2021 22:15	WG1678763
1,1,2-Trichloroethane	U		0.00290	0.0121	4	05/27/2021 22:15	WG1678763
Trichloroethene	0.0531		0.00284	0.00485	4	05/27/2021 22:15	WG1678763
Trichlorofluoromethane	U		0.00401	0.0121	4	05/27/2021 22:15	WG1678763
1,2,3-Trichloropropane	U		0.00786	0.0606	4	05/27/2021 22:15	WG1678763
1,2,4-Trimethylbenzene	U		0.00766	0.0243	4	05/27/2021 22:15	WG1678763
1,2,3-Trimethylbenzene	U		0.00766	0.0243	4	05/27/2021 22:15	WG1678763
1,3,5-Trimethylbenzene	U		0.00970	0.0243	4	05/27/2021 22:15	WG1678763
Vinyl acetate	0.0194	J	0.0124	0.0606	4	05/27/2021 22:15	WG1678763
Vinyl chloride	U		0.00563	0.0121	4	05/27/2021 22:15	WG1678763
Xylenes, Total	0.00469	J	0.00427	0.0315	4	05/27/2021 22:15	WG1678763
(S) Toluene-d8	*97.6*			*75.0-131*		*05/27/2021 22:15*	WG1678763
(S) 4-Bromofluorobenzene	*82.9*			*67.0-138*		*05/27/2021 22:15*	WG1678763
(S) 1,2-Dichloroethane-d4	*87.8*			*70.0-130*		*05/27/2021 22:15*	WG1678763

Sample Narrative:

L1355982-22 WG1678763: Dilution due to matrix.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	05/26/2021 11:23	WG1677078

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0427	0.0584	1	05/27/2021 22:36	WG1678763
Acrylonitrile	U		0.00422	0.0146	1	05/27/2021 22:36	WG1678763
Benzene	U		0.000546	0.00117	1	05/27/2021 22:36	WG1678763
Bromobenzene	U		0.00105	0.0146	1	05/27/2021 22:36	WG1678763
Bromodichloromethane	U		0.000847	0.00292	1	05/27/2021 22:36	WG1678763
Bromochloromethane	U		0.000659	0.00584	1	05/27/2021 22:36	WG1678763
Bromoform	U		0.00137	0.0292	1	05/27/2021 22:36	WG1678763
Bromomethane	U		0.00230	0.0146	1	05/27/2021 22:36	WG1678763
n-Butylbenzene	U		0.00614	0.0146	1	05/27/2021 22:36	WG1678763
sec-Butylbenzene	U		0.00337	0.0146	1	05/27/2021 22:36	WG1678763
tert-Butylbenzene	U		0.00228	0.00584	1	05/27/2021 22:36	WG1678763
Carbon disulfide	U		0.000818	0.0146	1	05/27/2021 22:36	WG1678763
Carbon tetrachloride	U		0.00105	0.00584	1	05/27/2021 22:36	WG1678763
Chlorobenzene	U		0.000245	0.00292	1	05/27/2021 22:36	WG1678763
Chlorodibromomethane	U		0.000715	0.00292	1	05/27/2021 22:36	WG1678763
Chloroethane	U		0.00199	0.00584	1	05/27/2021 22:36	WG1678763
Chloroform	U		0.00120	0.00292	1	05/27/2021 22:36	WG1678763
Chloromethane	U		0.00508	0.0146	1	05/27/2021 22:36	WG1678763
2-Chlorotoluene	U		0.00101	0.00292	1	05/27/2021 22:36	WG1678763
4-Chlorotoluene	U		0.000526	0.00584	1	05/27/2021 22:36	WG1678763
1,2-Dibromo-3-Chloropropane	U		0.00456	0.0292	1	05/27/2021 22:36	WG1678763
1,2-Dibromoethane	U		0.000757	0.00292	1	05/27/2021 22:36	WG1678763
Dibromomethane	U		0.000876	0.00584	1	05/27/2021 22:36	WG1678763
1,2-Dichlorobenzene	U		0.000497	0.00584	1	05/27/2021 22:36	WG1678763
1,3-Dichlorobenzene	U		0.000701	0.00584	1	05/27/2021 22:36	WG1678763
1,4-Dichlorobenzene	U		0.000818	0.00584	1	05/27/2021 22:36	WG1678763
Dichlorodifluoromethane	U		0.00188	0.00292	1	05/27/2021 22:36	WG1678763
1,1-Dichloroethane	U		0.000574	0.00292	1	05/27/2021 22:36	WG1678763
1,2-Dichloroethane	U		0.000758	0.00292	1	05/27/2021 22:36	WG1678763
1,1-Dichloroethene	U		0.000708	0.00292	1	05/27/2021 22:36	WG1678763
cis-1,2-Dichloroethene	U		0.000858	0.00292	1	05/27/2021 22:36	WG1678763
trans-1,2-Dichloroethene	U		0.00122	0.00584	1	05/27/2021 22:36	WG1678763
1,2-Dichloropropane	U		0.00166	0.00584	1	05/27/2021 22:36	WG1678763
1,1-Dichloropropene	U		0.000945	0.00292	1	05/27/2021 22:36	WG1678763
1,3-Dichloropropane	U		0.000585	0.00584	1	05/27/2021 22:36	WG1678763
cis-1,3-Dichloropropene	U		0.000885	0.00292	1	05/27/2021 22:36	WG1678763
trans-1,3-Dichloropropene	U		0.00133	0.00584	1	05/27/2021 22:36	WG1678763
trans-1,4-Dichloro-2-butene	U		0.00217	0.00584	1	05/27/2021 22:36	WG1678763
2,2-Dichloropropane	U		0.00161	0.00292	1	05/27/2021 22:36	WG1678763
Di-isopropyl ether	U		0.000479	0.00117	1	05/27/2021 22:36	WG1678763
Ethylbenzene	U		0.000861	0.00292	1	05/27/2021 22:36	WG1678763
Hexachloro-1,3-butadiene	U		0.00701	0.0292	1	05/27/2021 22:36	WG1678763
2-Hexanone	U		0.00393	0.0292	1	05/27/2021 22:36	WG1678763
n-Hexane	U		0.00264	0.00584	1	05/27/2021 22:36	WG1678763
Iodomethane	U		0.00271	0.0146	1	05/27/2021 22:36	WG1678763
Isopropylbenzene	U		0.000497	0.00292	1	05/27/2021 22:36	WG1678763
p-Isopropyltoluene	U		0.00298	0.00584	1	05/27/2021 22:36	WG1678763
2-Butanone (MEK)	U		0.0742	0.117	1	05/27/2021 22:36	WG1678763
Methylene Chloride	U		0.00776	0.0292	1	05/27/2021 22:36	WG1678763
4-Methyl-2-pentanone (MIBK)	U		0.00266	0.0292	1	05/27/2021 22:36	WG1678763

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000409	0.00117	1	05/27/2021 22:36	WG1678763
Naphthalene	U		0.00570	0.0146	1	05/27/2021 22:36	WG1678763
n-Propylbenzene	U		0.00111	0.00584	1	05/27/2021 22:36	WG1678763
Styrene	U		0.000268	0.0146	1	05/27/2021 22:36	WG1678763
1,1,1,2-Tetrachloroethane	U		0.00111	0.00292	1	05/27/2021 22:36	WG1678763
1,1,2,2-Tetrachloroethane	U		0.000812	0.00292	1	05/27/2021 22:36	WG1678763
1,1,2-Trichlorotrifluoroethane	U		0.000881	0.00292	1	05/27/2021 22:36	WG1678763
Tetrachloroethene	0.00118	J	0.00105	0.00292	1	05/29/2021 19:00	WG1679857
Toluene	U		0.00152	0.00584	1	05/27/2021 22:36	WG1678763
1,2,3-Trichlorobenzene	U		0.00857	0.0146	1	05/27/2021 22:36	WG1678763
1,2,4-Trichlorobenzene	U		0.00514	0.0146	1	05/27/2021 22:36	WG1678763
1,1,1-Trichloroethane	U		0.00108	0.00292	1	05/27/2021 22:36	WG1678763
1,1,2-Trichloroethane	U		0.000698	0.00292	1	05/27/2021 22:36	WG1678763
Trichloroethene	U		0.000682	0.00117	1	05/27/2021 22:36	WG1678763
Trichlorofluoromethane	U		0.000966	0.00292	1	05/27/2021 22:36	WG1678763
1,2,3-Trichloropropane	U		0.00189	0.0146	1	05/27/2021 22:36	WG1678763
1,2,4-Trimethylbenzene	U		0.00185	0.00584	1	05/27/2021 22:36	WG1678763
1,2,3-Trimethylbenzene	U		0.00185	0.00584	1	05/27/2021 22:36	WG1678763
1,3,5-Trimethylbenzene	U		0.00234	0.00584	1	05/27/2021 22:36	WG1678763
Vinyl acetate	U		0.00297	0.0146	1	05/27/2021 22:36	WG1678763
Vinyl chloride	U		0.00136	0.00292	1	05/27/2021 22:36	WG1678763
Xylenes, Total	U		0.00103	0.00760	1	05/27/2021 22:36	WG1678763
(S) Toluene-d8	*95.9*			*75.0-131*		*05/27/2021 22:36*	WG1678763
(S) Toluene-d8	*105*			*75.0-131*		*05/29/2021 19:00*	WG1679857
(S) 4-Bromofluorobenzene	*92.8*			*67.0-138*		*05/27/2021 22:36*	WG1678763
(S) 4-Bromofluorobenzene	*99.3*			*67.0-138*		*05/29/2021 19:00*	WG1679857
(S) 1,2-Dichloroethane-d4	*85.9*			*70.0-130*		*05/27/2021 22:36*	WG1678763
(S) 1,2-Dichloroethane-d4	*79.7*			*70.0-130*		*05/29/2021 19:00*	WG1679857

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.2		1	05/26/2021 11:23	WG1677078

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0467	0.0639	1	05/27/2021 22:57	WG1678763
Acrylonitrile	U		0.00461	0.0160	1	05/27/2021 22:57	WG1678763
Benzene	U		0.000597	0.00128	1	05/27/2021 22:57	WG1678763
Bromobenzene	U		0.00115	0.0160	1	05/27/2021 22:57	WG1678763
Bromodichloromethane	U		0.000927	0.00320	1	05/27/2021 22:57	WG1678763
Bromochloromethane	U		0.000721	0.00639	1	05/27/2021 22:57	WG1678763
Bromoform	U		0.00150	0.0320	1	05/27/2021 22:57	WG1678763
Bromomethane	U		0.00252	0.0160	1	05/27/2021 22:57	WG1678763
n-Butylbenzene	U		0.00671	0.0160	1	05/27/2021 22:57	WG1678763
sec-Butylbenzene	U		0.00368	0.0160	1	05/27/2021 22:57	WG1678763
tert-Butylbenzene	U		0.00249	0.00639	1	05/27/2021 22:57	WG1678763
Carbon disulfide	U		0.000895	0.0160	1	05/27/2021 22:57	WG1678763
Carbon tetrachloride	U		0.00115	0.00639	1	05/27/2021 22:57	WG1678763
Chlorobenzene	U		0.000268	0.00320	1	05/27/2021 22:57	WG1678763
Chlorodibromomethane	U		0.000782	0.00320	1	05/27/2021 22:57	WG1678763
Chloroethane	U		0.00217	0.00639	1	05/27/2021 22:57	WG1678763
Chloroform	U		0.00132	0.00320	1	05/27/2021 22:57	WG1678763
Chloromethane	U		0.00556	0.0160	1	05/27/2021 22:57	WG1678763
2-Chlorotoluene	U		0.00111	0.00320	1	05/27/2021 22:57	WG1678763
4-Chlorotoluene	U		0.000575	0.00639	1	05/27/2021 22:57	WG1678763
1,2-Dibromo-3-Chloropropane	U		0.00499	0.0320	1	05/27/2021 22:57	WG1678763
1,2-Dibromoethane	U		0.000828	0.00320	1	05/27/2021 22:57	WG1678763
Dibromomethane	U		0.000959	0.00639	1	05/27/2021 22:57	WG1678763
1,2-Dichlorobenzene	U		0.000543	0.00639	1	05/27/2021 22:57	WG1678763
1,3-Dichlorobenzene	U		0.000767	0.00639	1	05/27/2021 22:57	WG1678763
1,4-Dichlorobenzene	U		0.000895	0.00639	1	05/27/2021 22:57	WG1678763
Dichlorodifluoromethane	U		0.00206	0.00320	1	05/27/2021 22:57	WG1678763
1,1-Dichloroethane	U		0.000628	0.00320	1	05/27/2021 22:57	WG1678763
1,2-Dichloroethane	U		0.000830	0.00320	1	05/27/2021 22:57	WG1678763
1,1-Dichloroethene	U		0.000775	0.00320	1	05/27/2021 22:57	WG1678763
cis-1,2-Dichloroethene	0.00167	J	0.000938	0.00320	1	05/27/2021 22:57	WG1678763
trans-1,2-Dichloroethene	U		0.00133	0.00639	1	05/27/2021 22:57	WG1678763
1,2-Dichloropropane	U		0.00182	0.00639	1	05/27/2021 22:57	WG1678763
1,1-Dichloropropene	U		0.00103	0.00320	1	05/27/2021 22:57	WG1678763
1,3-Dichloropropane	U		0.000640	0.00639	1	05/27/2021 22:57	WG1678763
cis-1,3-Dichloropropene	U		0.000968	0.00320	1	05/27/2021 22:57	WG1678763
trans-1,3-Dichloropropene	U		0.00146	0.00639	1	05/27/2021 22:57	WG1678763
trans-1,4-Dichloro-2-butene	U		0.00238	0.00639	1	05/27/2021 22:57	WG1678763
2,2-Dichloropropane	U		0.00176	0.00320	1	05/27/2021 22:57	WG1678763
Di-isopropyl ether	U		0.000524	0.00128	1	05/27/2021 22:57	WG1678763
Ethylbenzene	U		0.000942	0.00320	1	05/27/2021 22:57	WG1678763
Hexachloro-1,3-butadiene	U		0.00767	0.0320	1	05/27/2021 22:57	WG1678763
2-Hexanone	0.0243	J	0.00430	0.0320	1	05/27/2021 22:57	WG1678763
n-Hexane	U		0.00289	0.00639	1	05/27/2021 22:57	WG1678763
Iodomethane	U		0.00297	0.0160	1	05/27/2021 22:57	WG1678763
Isopropylbenzene	U		0.000543	0.00320	1	05/27/2021 22:57	WG1678763
p-Isopropyltoluene	U		0.00326	0.00639	1	05/27/2021 22:57	WG1678763
2-Butanone (MEK)	U		0.0812	0.128	1	05/27/2021 22:57	WG1678763
Methylene Chloride	U		0.00849	0.0320	1	05/27/2021 22:57	WG1678763
4-Methyl-2-pentanone (MIBK)	U		0.00291	0.0320	1	05/27/2021 22:57	WG1678763

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000447	0.00128	1	05/27/2021 22:57	WG1678763
Naphthalene	U		0.00624	0.0160	1	05/27/2021 22:57	WG1678763
n-Propylbenzene	U		0.00121	0.00639	1	05/27/2021 22:57	WG1678763
Styrene	U		0.000293	0.0160	1	05/27/2021 22:57	WG1678763
1,1,1,2-Tetrachloroethane	U		0.00121	0.00320	1	05/27/2021 22:57	WG1678763
1,1,2,2-Tetrachloroethane	U		0.000888	0.00320	1	05/27/2021 22:57	WG1678763
1,1,2-Trichlorotrifluoroethane	U		0.000964	0.00320	1	05/27/2021 22:57	WG1678763
Tetrachloroethene	0.0119		0.00115	0.00320	1	05/27/2021 22:57	WG1678763
Toluene	U		0.00166	0.00639	1	05/27/2021 22:57	WG1678763
1,2,3-Trichlorobenzene	U		0.00937	0.0160	1	05/27/2021 22:57	WG1678763
1,2,4-Trichlorobenzene	U		0.00562	0.0160	1	05/27/2021 22:57	WG1678763
1,1,1-Trichloroethane	U		0.00118	0.00320	1	05/27/2021 22:57	WG1678763
1,1,2-Trichloroethane	U		0.000763	0.00320	1	05/27/2021 22:57	WG1678763
Trichloroethene	0.00165		0.000747	0.00128	1	05/27/2021 22:57	WG1678763
Trichlorofluoromethane	U		0.00106	0.00320	1	05/27/2021 22:57	WG1678763
1,2,3-Trichloropropane	U		0.00207	0.0160	1	05/27/2021 22:57	WG1678763
1,2,4-Trimethylbenzene	U		0.00202	0.00639	1	05/27/2021 22:57	WG1678763
1,2,3-Trimethylbenzene	U		0.00202	0.00639	1	05/27/2021 22:57	WG1678763
1,3,5-Trimethylbenzene	U		0.00256	0.00639	1	05/27/2021 22:57	WG1678763
Vinyl acetate	0.00556	J	0.00325	0.0160	1	05/27/2021 22:57	WG1678763
Vinyl chloride	U		0.00148	0.00320	1	05/27/2021 22:57	WG1678763
Xylenes, Total	U		0.00112	0.00831	1	05/27/2021 22:57	WG1678763
(S) Toluene-d8	*96.1*			*75.0-131*		*05/27/2021 22:57*	WG1678763
(S) 4-Bromofluorobenzene	*94.7*			*67.0-138*		*05/27/2021 22:57*	WG1678763
(S) 1,2-Dichloroethane-d4	*83.3*			*70.0-130*		*05/27/2021 22:57*	WG1678763

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0365	0.0500	1	06/02/2021 17:14	WG1681785
Acrylonitrile	U		0.00361	0.0125	1	06/02/2021 17:14	WG1681785
Benzene	U		0.000467	0.00100	1	06/02/2021 17:14	WG1681785
Bromobenzene	U		0.000900	0.0125	1	06/02/2021 17:14	WG1681785
Bromodichloromethane	U		0.000725	0.00250	1	06/02/2021 17:14	WG1681785
Bromochloromethane	U		0.000564	0.00500	1	06/02/2021 17:14	WG1681785
Bromoform	U		0.00117	0.0250	1	06/02/2021 17:14	WG1681785
Bromomethane	U		0.00197	0.0125	1	06/02/2021 17:14	WG1681785
n-Butylbenzene	U		0.00525	0.0125	1	06/02/2021 17:14	WG1681785
sec-Butylbenzene	U		0.00288	0.0125	1	06/02/2021 17:14	WG1681785
tert-Butylbenzene	U		0.00195	0.00500	1	06/02/2021 17:14	WG1681785
Carbon disulfide	U		0.000700	0.0125	1	06/02/2021 17:14	WG1681785
Carbon tetrachloride	U		0.000898	0.00500	1	06/02/2021 17:14	WG1681785
Chlorobenzene	U		0.000210	0.00250	1	06/02/2021 17:14	WG1681785
Chlorodibromomethane	U		0.000612	0.00250	1	06/02/2021 17:14	WG1681785
Chloroethane	U		0.00170	0.00500	1	06/02/2021 17:14	WG1681785
Chloroform	U		0.00103	0.00250	1	06/02/2021 17:14	WG1681785
Chloromethane	U		0.00435	0.0125	1	06/02/2021 17:14	WG1681785
2-Chlorotoluene	U		0.000865	0.00250	1	06/02/2021 17:14	WG1681785
4-Chlorotoluene	U		0.000450	0.00500	1	06/02/2021 17:14	WG1681785
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250	1	06/02/2021 17:14	WG1681785
1,2-Dibromoethane	U		0.000648	0.00250	1	06/02/2021 17:14	WG1681785
Dibromomethane	U		0.000750	0.00500	1	06/02/2021 17:14	WG1681785
1,2-Dichlorobenzene	U		0.000425	0.00500	1	06/02/2021 17:14	WG1681785
1,3-Dichlorobenzene	U		0.000600	0.00500	1	06/02/2021 17:14	WG1681785
1,4-Dichlorobenzene	U		0.000700	0.00500	1	06/02/2021 17:14	WG1681785
Dichlorodifluoromethane	U		0.00161	0.00250	1	06/02/2021 17:14	WG1681785
1,1-Dichloroethane	U		0.000491	0.00250	1	06/02/2021 17:14	WG1681785
1,2-Dichloroethane	U		0.000649	0.00250	1	06/02/2021 17:14	WG1681785
1,1-Dichloroethene	U		0.000606	0.00250	1	06/02/2021 17:14	WG1681785
cis-1,2-Dichloroethene	U		0.000734	0.00250	1	06/02/2021 17:14	WG1681785
trans-1,2-Dichloroethene	U		0.00104	0.00500	1	06/02/2021 17:14	WG1681785
1,2-Dichloropropane	U		0.00142	0.00500	1	06/02/2021 17:14	WG1681785
1,1-Dichloropropene	U		0.000809	0.00250	1	06/02/2021 17:14	WG1681785
1,3-Dichloropropane	U		0.000501	0.00500	1	06/02/2021 17:14	WG1681785
cis-1,3-Dichloropropene	U		0.000757	0.00250	1	06/02/2021 17:14	WG1681785
trans-1,3-Dichloropropene	U		0.00114	0.00500	1	06/02/2021 17:14	WG1681785
trans-1,4-Dichloro-2-butene	U	J3	0.00186	0.00500	1	06/02/2021 17:14	WG1681785
2,2-Dichloropropane	U		0.00138	0.00250	1	06/02/2021 17:14	WG1681785
Di-isopropyl ether	U		0.000410	0.00100	1	06/02/2021 17:14	WG1681785
Ethylbenzene	U		0.000737	0.00250	1	06/02/2021 17:14	WG1681785
Hexachloro-1,3-butadiene	U	C3	0.00600	0.0250	1	06/02/2021 17:14	WG1681785
2-Hexanone	U		0.00336	0.0250	1	06/02/2021 17:14	WG1681785
n-Hexane	U		0.00226	0.00500	1	06/02/2021 17:14	WG1681785
Iodomethane	U		0.00232	0.0125	1	06/02/2021 17:14	WG1681785
Isopropylbenzene	U		0.000425	0.00250	1	06/02/2021 17:14	WG1681785
p-Isopropyltoluene	U		0.00255	0.00500	1	06/02/2021 17:14	WG1681785
2-Butanone (MEK)	U		0.0635	0.100	1	06/02/2021 17:14	WG1681785
Methylene Chloride	U		0.00664	0.0250	1	06/02/2021 17:14	WG1681785
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250	1	06/02/2021 17:14	WG1681785
Methyl tert-butyl ether	U		0.000350	0.00100	1	06/02/2021 17:14	WG1681785
Naphthalene	U		0.00488	0.0125	1	06/02/2021 17:14	WG1681785
n-Propylbenzene	U		0.000950	0.00500	1	06/02/2021 17:14	WG1681785
Styrene	0.000375	J	0.000229	0.0125	1	06/02/2021 17:14	WG1681785
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250	1	06/02/2021 17:14	WG1681785
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250	1	06/02/2021 17:14	WG1681785

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250	1	06/02/2021 17:14	WG1681785
Tetrachloroethene	U		0.000896	0.00250	1	06/02/2021 17:14	WG1681785
Toluene	0.00193	J	0.00130	0.00500	1	06/02/2021 17:14	WG1681785
1,2,3-Trichlorobenzene	U	C4	0.00733	0.0125	1	06/02/2021 17:14	WG1681785
1,2,4-Trichlorobenzene	U		0.00440	0.0125	1	06/02/2021 17:14	WG1681785
1,1,1-Trichloroethane	U		0.000923	0.00250	1	06/02/2021 17:14	WG1681785
1,1,2-Trichloroethane	U		0.000597	0.00250	1	06/02/2021 17:14	WG1681785
Trichloroethene	U		0.000584	0.00100	1	06/02/2021 17:14	WG1681785
Trichlorofluoromethane	U		0.000827	0.00250	1	06/02/2021 17:14	WG1681785
1,2,3-Trichloropropane	U		0.00162	0.0125	1	06/02/2021 17:14	WG1681785
1,2,4-Trimethylbenzene	0.00197	J	0.00158	0.00500	1	06/02/2021 17:14	WG1681785
1,2,3-Trimethylbenzene	U		0.00158	0.00500	1	06/02/2021 17:14	WG1681785
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/02/2021 17:14	WG1681785
Vinyl acetate	U		0.00254	0.0125	1	06/02/2021 17:14	WG1681785
Vinyl chloride	U		0.00116	0.00250	1	06/02/2021 17:14	WG1681785
Xylenes, Total	0.00143	J	0.000880	0.00650	1	06/02/2021 17:14	WG1681785
(S) Toluene-d8	*121*			*75.0-131*		*06/02/2021 17:14*	WG1681785
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*06/02/2021 17:14*	WG1681785
(S) 1,2-Dichloroethane-d4	*82.0*			*70.0-130*		*06/02/2021 17:14*	WG1681785

Method Blank (MB)

(MB) R3659324-1 05/25/21 19:12

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1355982-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1355982-01 05/25/21 19:12 • (DUP) R3659324-3 05/25/21 19:12

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	91.3	92.2	1	1.00		10

Laboratory Control Sample (LCS)

(LCS) R3659324-2 05/25/21 19:12

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3659765-1 05/26/21 10:05

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1355982-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1355982-11 05/26/21 10:05 • (DUP) R3659765-3 05/26/21 10:05

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	90.4	90.4	1	0.0234		10

Laboratory Control Sample (LCS)

(LCS) R3659765-2 05/26/21 10:05

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3659766-1 05/26/21 10:14

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1355982-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1355982-22 05/26/21 10:14 • (DUP) R3659766-3 05/26/21 10:14

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	91.7	91.6	1	0.206		10

Laboratory Control Sample (LCS)

(LCS) R3659766-2 05/26/21 10:14

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3659773-1 05/26/21 11:23

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1355983-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1355983-08 05/26/21 11:23 • (DUP) R3659773-3 05/26/21 11:23

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	76.5	76.5	1	0.0107		10

Laboratory Control Sample (LCS)

(LCS) R3659773-2 05/26/21 11:23

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3661129-2 05/26/21 21:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromochloromethane	U		0.000564	0.00500
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon disulfide	U		0.000700	0.0125
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
trans-1,4-Dichloro-2-butene	U		0.00186	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100

Method Blank (MB)

(MB) R3661129-2 05/26/21 21:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
n-Hexane	U		0.00226	0.00500
2-Hexanone	U		0.00336	0.0250
Iodomethane	U		0.00232	0.0125
Isopropylbenzene	U		0.000425	0.00250
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	0.0111	J	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl acetate	U		0.00254	0.0125
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*105*			*75.0-131*
(S) 4-Bromofluorobenzene	*98.5*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3661129-1 05/26/21 20:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.740	118	10.0-160	
Acrylonitrile	0.625	0.718	115	45.0-153	
Benzene	0.125	0.138	110	70.0-123	
Bromobenzene	0.125	0.129	103	73.0-121	
Bromodichloromethane	0.125	0.132	106	73.0-121	
Bromochloromethane	0.125	0.135	108	77.0-128	
Bromoform	0.125	0.112	89.6	64.0-132	
Bromomethane	0.125	0.123	98.4	56.0-147	
n-Butylbenzene	0.125	0.131	105	68.0-135	
sec-Butylbenzene	0.125	0.142	114	74.0-130	
tert-Butylbenzene	0.125	0.143	114	75.0-127	
Carbon disulfide	0.125	0.130	104	56.0-133	
Carbon tetrachloride	0.125	0.141	113	66.0-128	
Chlorobenzene	0.125	0.126	101	76.0-128	
Chlorodibromomethane	0.125	0.124	99.2	74.0-127	
Chloroethane	0.125	0.134	107	61.0-134	
Chloroform	0.125	0.130	104	72.0-123	
Chloromethane	0.125	0.130	104	51.0-138	
2-Chlorotoluene	0.125	0.141	113	75.0-124	
4-Chlorotoluene	0.125	0.139	111	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.125	100	59.0-130	
1,2-Dibromoethane	0.125	0.126	101	74.0-128	
Dibromomethane	0.125	0.130	104	75.0-122	
1,2-Dichlorobenzene	0.125	0.128	102	76.0-124	
1,3-Dichlorobenzene	0.125	0.128	102	76.0-125	
1,4-Dichlorobenzene	0.125	0.127	102	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.128	102	45.0-143	
Dichlorodifluoromethane	0.125	0.130	104	43.0-156	
1,1-Dichloroethane	0.125	0.140	112	70.0-127	
1,2-Dichloroethane	0.125	0.132	106	65.0-131	
1,1-Dichloroethene	0.125	0.138	110	65.0-131	
cis-1,2-Dichloroethene	0.125	0.136	109	73.0-125	
trans-1,2-Dichloroethene	0.125	0.133	106	71.0-125	
1,2-Dichloropropane	0.125	0.139	111	74.0-125	
1,1-Dichloropropene	0.125	0.132	106	73.0-125	
1,3-Dichloropropane	0.125	0.125	100	80.0-125	
cis-1,3-Dichloropropene	0.125	0.129	103	76.0-127	
trans-1,3-Dichloropropene	0.125	0.127	102	73.0-127	
2,2-Dichloropropane	0.125	0.159	127	59.0-135	
Di-isopropyl ether	0.125	0.147	118	60.0-136	

Laboratory Control Sample (LCS)

(LCS) R3661129-1 05/26/21 20:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.125	0.125	100	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.123	98.4	57.0-150	
2-Hexanone	0.625	0.698	112	54.0-147	
n-Hexane	0.125	0.131	105	55.0-137	
Iodomethane	0.625	0.661	106	74.0-134	
Isopropylbenzene	0.125	0.134	107	72.0-127	
p-Isopropyltoluene	0.125	0.139	111	72.0-133	
2-Butanone (MEK)	0.625	0.749	120	30.0-160	
Methylene Chloride	0.125	0.129	103	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.684	109	56.0-143	
Methyl tert-butyl ether	0.125	0.142	114	66.0-132	
Naphthalene	0.125	0.113	90.4	59.0-130	
n-Propylbenzene	0.125	0.135	108	74.0-126	
Styrene	0.125	0.124	99.2	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.131	105	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.136	109	68.0-128	
Tetrachloroethene	0.125	0.124	99.2	70.0-136	
Toluene	0.125	0.129	103	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.115	92.0	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.114	91.2	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.115	92.0	62.0-137	
1,1,1-Trichloroethane	0.125	0.137	110	69.0-126	
1,1,2-Trichloroethane	0.125	0.121	96.8	78.0-123	
Trichloroethene	0.125	0.134	107	76.0-126	
Trichlorofluoromethane	0.125	0.110	88.0	61.0-142	
1,2,3-Trichloropropane	0.125	0.142	114	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.132	106	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.139	111	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.139	111	73.0-127	
Vinyl acetate	0.625	0.699	112	43.0-159	
Vinyl chloride	0.125	0.129	103	63.0-134	
Xylenes, Total	0.375	0.375	100	72.0-127	
(S) Toluene-d8			*98.0*	*75.0-131*	
(S) 4-Bromofluorobenzene			*99.6*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*105*	*70.0-130*	

L1355803-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355803-03 05/26/21 21:58 • (MS) R3661129-3 05/27/21 03:39 • (MSD) R3661129-4 05/27/21 03:58

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	5.19	U	6.60	6.87	127	132	8	10.0-160			3.91	40
Acrylonitrile	5.19	U	6.31	6.46	122	125	8	10.0-160			2.38	40
Benzene	1.04	U	0.626	0.786	60.3	75.7	8	10.0-149			22.7	37
Bromobenzene	1.04	U	0.707	0.789	68.1	76.0	8	10.0-156			10.9	38
Bromodichloromethane	1.04	U	0.800	0.858	77.1	82.7	8	10.0-143			7.01	37
Bromochloromethane	1.04	U	0.854	0.920	82.3	88.7	8	10.0-155			7.49	33
Bromoform	1.04	U	0.999	0.959	96.3	92.4	8	10.0-146			4.10	36
Bromomethane	1.04	U	0.489	0.583	47.1	56.1	8	10.0-149			17.6	38
n-Butylbenzene	1.04	0.818	1.59	1.21	74.5	38.0	8	10.0-160			27.0	40
sec-Butylbenzene	1.04	0.401	1.15	1.32	71.9	88.3	8	10.0-159			13.8	39
tert-Butylbenzene	1.04	0.0377	0.727	0.916	66.4	84.6	8	10.0-156			23.1	39
Carbon disulfide	1.04	U	0.447	0.626	43.1	60.3	8	10.0-145			33.3	39
Carbon tetrachloride	1.04	U	0.591	0.783	56.9	75.5	8	10.0-145			28.0	37
Chlorobenzene	1.04	U	0.693	0.778	66.8	74.9	8	10.0-152			11.5	39
Chlorodibromomethane	1.04	U	0.825	0.831	79.5	80.0	8	10.0-146			0.669	37
Chloroethane	1.04	U	0.473	0.591	45.6	56.9	8	10.0-146			22.1	40
Chloroform	1.04	U	0.652	0.768	62.8	74.0	8	10.0-146			16.4	37
Chloromethane	1.04	U	0.448	0.606	43.2	58.4	8	10.0-159			29.9	37
2-Chlorotoluene	1.04	U	0.761	0.937	73.3	90.3	8	10.0-159			20.7	38
4-Chlorotoluene	1.04	U	0.717	0.851	69.1	82.0	8	10.0-155			17.1	39
1,2-Dibromo-3-Chloropropane	1.04	U	1.09	1.04	105	100	8	10.0-151			5.19	39
1,2-Dibromoethane	1.04	U	0.894	0.887	86.1	85.5	8	10.0-148			0.777	34
Dibromomethane	1.04	U	0.904	0.903	87.1	86.9	8	10.0-147			0.153	35
1,2-Dichlorobenzene	1.04	U	0.880	0.962	84.8	92.7	8	10.0-155			8.87	37
1,3-Dichlorobenzene	1.04	U	0.768	0.871	74.0	83.9	8	10.0-153			12.5	38
1,4-Dichlorobenzene	1.04	U	0.754	0.858	72.7	82.7	8	10.0-151			12.9	38
trans-1,4-Dichloro-2-butene	1.04	U	1.65	2.03	159	196	8	10.0-152	J5	J5	21.1	36
Dichlorodifluoromethane	1.04	U	0.508	0.741	48.9	71.3	8	10.0-160		J3	37.3	35
1,1-Dichloroethane	1.04	U	0.624	0.797	60.1	76.8	8	10.0-147			24.3	37
1,2-Dichloroethane	1.04	U	0.891	0.908	85.9	87.5	8	10.0-148			1.85	35
1,1-Dichloroethene	1.04	U	0.552	0.786	53.2	75.7	8	10.0-155			35.0	37
cis-1,2-Dichloroethene	1.04	U	0.652	0.770	62.8	74.1	8	10.0-149			16.6	37
trans-1,2-Dichloroethene	1.04	U	0.543	0.710	52.3	68.4	8	10.0-150			26.7	37
1,2-Dichloropropane	1.04	U	0.754	0.858	72.7	82.7	8	10.0-148			12.9	37
1,1-Dichloropropene	1.04	U	0.538	0.743	51.9	71.6	8	10.0-153			32.0	35
1,3-Dichloropropane	1.04	U	0.867	0.864	83.5	83.2	8	10.0-154			0.320	35
cis-1,3-Dichloropropene	1.04	U	0.792	0.846	76.3	81.5	8	10.0-151			6.59	37
trans-1,3-Dichloropropene	1.04	U	0.824	0.854	79.3	82.3	8	10.0-148			3.63	37
2,2-Dichloropropane	1.04	U	0.610	0.804	58.8	77.5	8	10.0-138			27.4	36

L1355803-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355803-03 05/26/21 21:58 • (MS) R3661129-3 05/27/21 03:39 • (MSD) R3661129-4 05/27/21 03:58

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Di-isopropyl ether	1.04	U	0.926	1.03	89.2	99.6	8	10.0-147			11.0	36
Ethylbenzene	1.04	13.8	14.3	13.4	40.0	0.000	8	10.0-160		V	6.00	38
Hexachloro-1,3-butadiene	1.04	U	1.01	1.11	97.6	107	8	10.0-160			8.75	40
2-Hexanone	5.19	U	6.53	5.99	126	115	8	10.0-160			8.62	36
n-Hexane	1.04	U	0.675	0.803	65.1	77.3	8	10.0-157			17.2	37
Iodomethane	5.19	U	2.80	3.56	53.9	68.5	8	10.0-160			24.0	38
Isopropylbenzene	1.04	0.963	1.73	1.80	73.9	80.5	8	10.0-155			3.92	38
p-Isopropyltoluene	1.04	0.454	0.728	1.36	26.4	87.6	8	10.0-160		J3	60.8	40
2-Butanone (MEK)	5.19	U	7.52	7.09	145	137	8	10.0-160			5.88	40
Methylene Chloride	1.04	U	0.698	0.831	67.2	80.0	8	10.0-141			17.4	37
4-Methyl-2-pentanone (MIBK)	5.19	U	6.53	6.05	126	117	8	10.0-160			7.70	35
Methyl tert-butyl ether	1.04	U	1.11	1.14	107	110	8	11.0-147			2.96	35
Naphthalene	1.04	0.644	1.63	1.65	95.3	96.7	8	10.0-160			0.844	36
n-Propylbenzene	1.04	0.992	1.69	1.84	67.1	81.7	8	10.0-158			8.63	38
Styrene	1.04	U	0.869	0.951	83.7	91.6	8	10.0-160			8.97	40
1,1,1,2-Tetrachloroethane	1.04	U	0.752	0.814	72.4	78.4	8	10.0-149			7.96	39
1,1,2,2-Tetrachloroethane	1.04	U	1.88	1.90	181	183	8	10.0-160	J5	J5	0.733	35
Tetrachloroethene	1.04	U	0.505	0.642	48.7	61.9	8	10.0-156			23.9	39
Toluene	1.04	0.0584	0.602	0.734	52.4	65.0	8	10.0-156			19.7	38
1,1,2-Trichlorotrifluoroethane	1.04	U	0.536	0.756	51.6	72.8	8	10.0-160			34.1	36
1,2,3-Trichlorobenzene	1.04	U	0.911	0.941	87.7	90.7	8	10.0-160			3.29	40
1,2,4-Trichlorobenzene	1.04	U	0.977	1.01	94.1	97.6	8	10.0-160			3.62	40
1,1,1-Trichloroethane	1.04	U	0.563	0.770	54.3	74.1	8	10.0-144			30.9	35
1,1,2-Trichloroethane	1.04	U	0.843	0.825	81.2	79.5	8	10.0-160			2.16	35
Trichloroethene	1.04	U	0.626	0.783	60.3	75.5	8	10.0-156			22.4	38
Trichlorofluoromethane	1.04	U	0.526	0.696	50.7	67.1	8	10.0-160			27.9	40
1,2,3-Trichloropropane	1.04	U	0.997	0.853	96.0	82.1	8	10.0-156			15.6	35
1,2,3-Trimethylbenzene	1.04	2.69	3.36	3.38	65.3	66.7	8	10.0-160			0.411	36
1,2,4-Trimethylbenzene	1.04	6.59	7.24	7.25	62.7	64.0	8	10.0-160			0.191	36
1,3,5-Trimethylbenzene	1.04	1.52	2.26	2.39	70.7	84.0	8	10.0-160			5.95	38
Vinyl acetate	5.19	U	4.44	4.84	85.6	93.3	8	10.0-128			8.64	40
Vinyl chloride	1.04	U	0.454	0.640	43.7	61.6	8	10.0-160			33.9	37
Xylenes, Total	3.11	84.0	79.9	73.2	0.000	0.000	8	10.0-160	V	V	8.68	38
(S) Toluene-d8					*91.0*	*90.1*		*75.0-131*				
(S) 4-Bromofluorobenzene					*143*	*127*		*67.0-138*	J1			
(S) 1,2-Dichloroethane-d4					*102*	*102*		*70.0-130*				

Method Blank (MB)

(MB) R3660867-3 05/27/21 12:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromochloromethane	U		0.000564	0.00500
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon disulfide	U		0.000700	0.0125
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
trans-1,4-Dichloro-2-butene	U		0.00186	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100

Method Blank (MB)

(MB) R3660867-3 05/27/21 12:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
n-Hexane	U		0.00226	0.00500
2-Hexanone	U		0.00336	0.0250
Iodomethane	U		0.00232	0.0125
Isopropylbenzene	U		0.000425	0.00250
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	0.0125	J	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl acetate	U		0.00254	0.0125
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*96.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*90.9*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3660867-1 05/27/21 11:21 • (LCSD) R3660867-2 05/27/21 11:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.590	0.779	94.4	125	10.0-160			27.6	31
Acrylonitrile	0.625	0.700	0.751	112	120	45.0-153			7.03	22
Benzene	0.125	0.131	0.129	105	103	70.0-123			1.54	20
Bromobenzene	0.125	0.127	0.121	102	96.8	73.0-121			4.84	20
Bromodichloromethane	0.125	0.127	0.127	102	102	73.0-121			0.000	20
Bromochloromethane	0.125	0.132	0.141	106	113	77.0-128			6.59	20
Bromoform	0.125	0.135	0.139	108	111	64.0-132			2.92	20
Bromomethane	0.125	0.130	0.125	104	100	56.0-147			3.92	20
n-Butylbenzene	0.125	0.135	0.146	108	117	68.0-135			7.83	20
sec-Butylbenzene	0.125	0.119	0.118	95.2	94.4	74.0-130			0.844	20
tert-Butylbenzene	0.125	0.126	0.124	101	99.2	75.0-127			1.60	20
Carbon disulfide	0.125	0.131	0.124	105	99.2	56.0-133			5.49	20
Carbon tetrachloride	0.125	0.122	0.119	97.6	95.2	66.0-128			2.49	20
Chlorobenzene	0.125	0.126	0.131	101	105	76.0-128			3.89	20
Chlorodibromomethane	0.125	0.126	0.128	101	102	74.0-127			1.57	20
Chloroethane	0.125	0.128	0.121	102	96.8	61.0-134			5.62	20
Chloroform	0.125	0.122	0.123	97.6	98.4	72.0-123			0.816	20
Chloromethane	0.125	0.135	0.122	108	97.6	51.0-138			10.1	20
2-Chlorotoluene	0.125	0.126	0.123	101	98.4	75.0-124			2.41	20
4-Chlorotoluene	0.125	0.130	0.130	104	104	75.0-124			0.000	20
1,2-Dibromo-3-Chloropropane	0.125	0.126	0.133	101	106	59.0-130			5.41	20
1,2-Dibromoethane	0.125	0.126	0.126	101	101	74.0-128			0.000	20
Dibromomethane	0.125	0.127	0.129	102	103	75.0-122			1.56	20
1,2-Dichlorobenzene	0.125	0.135	0.141	108	113	76.0-124			4.35	20
1,3-Dichlorobenzene	0.125	0.132	0.134	106	107	76.0-125			1.50	20
1,4-Dichlorobenzene	0.125	0.120	0.123	96.0	98.4	77.0-121			2.47	20
trans-1,4-Dichloro-2-butene	0.125	0.101	0.108	80.8	86.4	45.0-143			6.70	20
Dichlorodifluoromethane	0.125	0.115	0.114	92.0	91.2	43.0-156			0.873	20
1,1-Dichloroethane	0.125	0.130	0.130	104	104	70.0-127			0.000	20
1,2-Dichloroethane	0.125	0.123	0.123	98.4	98.4	65.0-131			0.000	20
1,1-Dichloroethene	0.125	0.128	0.127	102	102	65.0-131			0.784	20
cis-1,2-Dichloroethene	0.125	0.137	0.135	110	108	73.0-125			1.47	20
trans-1,2-Dichloroethene	0.125	0.121	0.122	96.8	97.6	71.0-125			0.823	20
1,2-Dichloropropane	0.125	0.134	0.137	107	110	74.0-125			2.21	20
1,1-Dichloropropene	0.125	0.139	0.132	111	106	73.0-125			5.17	20
1,3-Dichloropropane	0.125	0.131	0.131	105	105	80.0-125			0.000	20
cis-1,3-Dichloropropene	0.125	0.142	0.144	114	115	76.0-127			1.40	20
trans-1,3-Dichloropropene	0.125	0.132	0.136	106	109	73.0-127			2.99	20
2,2-Dichloropropane	0.125	0.149	0.139	119	111	59.0-135			6.94	20
Di-isopropyl ether	0.125	0.134	0.129	107	103	60.0-136			3.80	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3660867-1 05/27/21 11:21 • (LCSD) R3660867-2 05/27/21 11:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.125	0.131	0.132	105	106	74.0-126			0.760	20
Hexachloro-1,3-butadiene	0.125	0.138	0.157	110	126	57.0-150			12.9	20
2-Hexanone	0.625	0.607	0.618	97.1	98.9	54.0-147			1.80	20
n-Hexane	0.125	0.138	0.133	110	106	55.0-137			3.69	20
Iodomethane	0.625	0.638	0.622	102	99.5	74.0-134			2.54	20
Isopropylbenzene	0.125	0.136	0.142	109	114	72.0-127			4.32	20
p-Isopropyltoluene	0.125	0.129	0.135	103	108	72.0-133			4.55	20
2-Butanone (MEK)	0.625	0.644	0.745	103	119	30.0-160			14.5	24
Methylene Chloride	0.125	0.119	0.122	95.2	97.6	68.0-123			2.49	20
4-Methyl-2-pentanone (MIBK)	0.625	0.640	0.664	102	106	56.0-143			3.68	20
Methyl tert-butyl ether	0.125	0.127	0.131	102	105	66.0-132			3.10	20
Naphthalene	0.125	0.149	0.153	119	122	59.0-130			2.65	20
n-Propylbenzene	0.125	0.115	0.113	92.0	90.4	74.0-126			1.75	20
Styrene	0.125	0.137	0.141	110	113	72.0-127			2.88	20
1,1,1,2-Tetrachloroethane	0.125	0.127	0.129	102	103	74.0-129			1.56	20
1,1,2,2-Tetrachloroethane	0.125	0.123	0.120	98.4	96.0	68.0-128			2.47	20
Tetrachloroethene	0.125	0.128	0.132	102	106	70.0-136			3.08	20
Toluene	0.125	0.116	0.120	92.8	96.0	75.0-121			3.39	20
1,1,2-Trichlorotrifluoroethane	0.125	0.114	0.111	91.2	88.8	61.0-139			2.67	20
1,2,3-Trichlorobenzene	0.125	0.146	0.149	117	119	59.0-139			2.03	20
1,2,4-Trichlorobenzene	0.125	0.155	0.170	124	136	62.0-137			9.23	20
1,1,1-Trichloroethane	0.125	0.137	0.126	110	101	69.0-126			8.37	20
1,1,2-Trichloroethane	0.125	0.125	0.129	100	103	78.0-123			3.15	20
Trichloroethene	0.125	0.132	0.130	106	104	76.0-126			1.53	20
Trichlorofluoromethane	0.125	0.107	0.106	85.6	84.8	61.0-142			0.939	20
1,2,3-Trichloropropane	0.125	0.127	0.122	102	97.6	67.0-129			4.02	20
1,2,3-Trimethylbenzene	0.125	0.116	0.117	92.8	93.6	74.0-124			0.858	20
1,2,4-Trimethylbenzene	0.125	0.128	0.128	102	102	70.0-126			0.000	20
1,3,5-Trimethylbenzene	0.125	0.119	0.119	95.2	95.2	73.0-127			0.000	20
Vinyl acetate	0.625	0.681	0.677	109	108	43.0-159			0.589	20
Vinyl chloride	0.125	0.142	0.130	114	104	63.0-134			8.82	20
Xylenes, Total	0.375	0.404	0.408	108	109	72.0-127			0.985	20
(S) Toluene-d8				*92.1*	*93.3*	*75.0-131*				
(S) 4-Bromofluorobenzene				*96.4*	*99.4*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*98.3*	*96.1*	*70.0-130*				

Method Blank (MB)

(MB) R3661643-3 05/29/21 03:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Tetrachloroethene	U		0.000896	0.00250
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*84.1*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3661643-1 05/29/21 02:09 • (LCSD) R3661643-2 05/29/21 02:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Tetrachloroethene	0.125	0.108	0.123	86.4	98.4	70.0-136			13.0	20
(S) Toluene-d8				*97.6*	*102*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.8*	*102*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*95.0*	*98.2*	*70.0-130*				

Method Blank (MB)

(MB) R3661271-2 05/31/21 10:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
cis-1,2-Dichloroethene	U		0.000734	0.00250
Trichloroethene	U		0.000584	0.00100
(S) Toluene-d8	*104*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*89.7*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3661271-1 05/31/21 09:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	0.125	0.120	96.0	73.0-125	
Trichloroethene	0.125	0.122	97.6	76.0-126	
(S) Toluene-d8			*99.5*	*75.0-131*	
(S) 4-Bromofluorobenzene			*98.0*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*98.1*	*70.0-130*	

Method Blank (MB)

(MB) R3662576-3 06/02/21 15:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromochloromethane	U		0.000564	0.00500
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon disulfide	U		0.000700	0.0125
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
trans-1,4-Dichloro-2-butene	U		0.00186	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100

Method Blank (MB)

(MB) R3662576-3 06/02/21 15:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
n-Hexane	U		0.00226	0.00500
2-Hexanone	U		0.00336	0.0250
Iodomethane	U		0.00232	0.0125
Isopropylbenzene	U		0.000425	0.00250
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl acetate	U		0.00254	0.0125
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*88.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*74.7*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3662576-1 06/02/21 14:30 • (LCSD) R3662576-2 06/02/21 14:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.609	0.542	97.4	86.7	10.0-160			11.6	31
Acrylonitrile	0.625	0.632	0.540	101	86.4	45.0-153			15.7	22
Benzene	0.125	0.126	0.115	101	92.0	70.0-123			9.13	20
Bromobenzene	0.125	0.123	0.116	98.4	92.8	73.0-121			5.86	20
Bromodichloromethane	0.125	0.115	0.117	92.0	93.6	73.0-121			1.72	20
Bromochloromethane	0.125	0.126	0.118	101	94.4	77.0-128			6.56	20
Bromoform	0.125	0.122	0.127	97.6	102	64.0-132			4.02	20
Bromomethane	0.125	0.125	0.132	100	106	56.0-147			5.45	20
n-Butylbenzene	0.125	0.110	0.106	88.0	84.8	68.0-135			3.70	20
sec-Butylbenzene	0.125	0.116	0.110	92.8	88.0	74.0-130			5.31	20
tert-Butylbenzene	0.125	0.113	0.108	90.4	86.4	75.0-127			4.52	20
Carbon disulfide	0.125	0.132	0.118	106	94.4	56.0-133			11.2	20
Carbon tetrachloride	0.125	0.129	0.116	103	92.8	66.0-128			10.6	20
Chlorobenzene	0.125	0.122	0.116	97.6	92.8	76.0-128			5.04	20
Chlorodibromomethane	0.125	0.122	0.118	97.6	94.4	74.0-127			3.33	20
Chloroethane	0.125	0.133	0.143	106	114	61.0-134			7.25	20
Chloroform	0.125	0.122	0.113	97.6	90.4	72.0-123			7.66	20
Chloromethane	0.125	0.137	0.123	110	98.4	51.0-138			10.8	20
2-Chlorotoluene	0.125	0.124	0.117	99.2	93.6	75.0-124			5.81	20
4-Chlorotoluene	0.125	0.122	0.113	97.6	90.4	75.0-124			7.66	20
1,2-Dibromo-3-Chloropropane	0.125	0.132	0.113	106	90.4	59.0-130			15.5	20
1,2-Dibromoethane	0.125	0.126	0.120	101	96.0	74.0-128			4.88	20
Dibromomethane	0.125	0.110	0.115	88.0	92.0	75.0-122			4.44	20
1,2-Dichlorobenzene	0.125	0.111	0.107	88.8	85.6	76.0-124			3.67	20
1,3-Dichlorobenzene	0.125	0.120	0.116	96.0	92.8	76.0-125			3.39	20
1,4-Dichlorobenzene	0.125	0.114	0.109	91.2	87.2	77.0-121			4.48	20
trans-1,4-Dichloro-2-butene	0.125	0.178	0.138	142	110	45.0-143		J3	25.3	20
Dichlorodifluoromethane	0.125	0.132	0.115	106	92.0	43.0-156			13.8	20
1,1-Dichloroethane	0.125	0.128	0.116	102	92.8	70.0-127			9.84	20
1,2-Dichloroethane	0.125	0.130	0.115	104	92.0	65.0-131			12.2	20
1,1-Dichloroethene	0.125	0.130	0.120	104	96.0	65.0-131			8.00	20
cis-1,2-Dichloroethene	0.125	0.126	0.115	101	92.0	73.0-125			9.13	20
trans-1,2-Dichloroethene	0.125	0.134	0.124	107	99.2	71.0-125			7.75	20
1,2-Dichloropropane	0.125	0.118	0.122	94.4	97.6	74.0-125			3.33	20
1,1-Dichloropropene	0.125	0.127	0.118	102	94.4	73.0-125			7.35	20
1,3-Dichloropropane	0.125	0.130	0.118	104	94.4	80.0-125			9.68	20
cis-1,3-Dichloropropene	0.125	0.126	0.122	101	97.6	76.0-127			3.23	20
trans-1,3-Dichloropropene	0.125	0.123	0.122	98.4	97.6	73.0-127			0.816	20
2,2-Dichloropropane	0.125	0.136	0.118	109	94.4	59.0-135			14.2	20
Di-isopropyl ether	0.125	0.126	0.111	101	88.8	60.0-136			12.7	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3662576-1 06/02/21 14:30 • (LCSD) R3662576-2 06/02/21 14:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.125	0.125	0.118	100	94.4	74.0-126			5.76	20
Hexachloro-1,3-butadiene	0.125	0.0973	0.0933	77.8	74.6	57.0-150			4.20	20
2-Hexanone	0.625	0.654	0.581	105	93.0	54.0-147			11.8	20
n-Hexane	0.125	0.120	0.109	96.0	87.2	55.0-137			9.61	20
Iodomethane	0.625	0.609	0.546	97.4	87.4	74.0-134			10.9	20
Isopropylbenzene	0.125	0.118	0.119	94.4	95.2	72.0-127			0.844	20
p-Isopropyltoluene	0.125	0.113	0.107	90.4	85.6	72.0-133			5.45	20
2-Butanone (MEK)	0.625	0.680	0.554	109	88.6	30.0-160			20.4	24
Methylene Chloride	0.125	0.117	0.107	93.6	85.6	68.0-123			8.93	20
4-Methyl-2-pentanone (MIBK)	0.625	0.546	0.543	87.4	86.9	56.0-143			0.551	20
Methyl tert-butyl ether	0.125	0.120	0.101	96.0	80.8	66.0-132			17.2	20
Naphthalene	0.125	0.107	0.0978	85.6	78.2	59.0-130			8.98	20
n-Propylbenzene	0.125	0.124	0.120	99.2	96.0	74.0-126			3.28	20
Styrene	0.125	0.126	0.123	101	98.4	72.0-127			2.41	20
1,1,1,2-Tetrachloroethane	0.125	0.118	0.111	94.4	88.8	74.0-129			6.11	20
1,1,2,2-Tetrachloroethane	0.125	0.130	0.119	104	95.2	68.0-128			8.84	20
Tetrachloroethene	0.125	0.122	0.122	97.6	97.6	70.0-136			0.000	20
Toluene	0.125	0.108	0.110	86.4	88.0	75.0-121			1.83	20
1,1,2-Trichlorotrifluoroethane	0.125	0.122	0.115	97.6	92.0	61.0-139			5.91	20
1,2,3-Trichlorobenzene	0.125	0.0942	0.0915	75.4	73.2	59.0-139			2.91	20
1,2,4-Trichlorobenzene	0.125	0.106	0.106	84.8	84.8	62.0-137			0.000	20
1,1,1-Trichloroethane	0.125	0.129	0.115	103	92.0	69.0-126			11.5	20
1,1,2-Trichloroethane	0.125	0.124	0.125	99.2	100	78.0-123			0.803	20
Trichloroethene	0.125	0.135	0.132	108	106	76.0-126			2.25	20
Trichlorofluoromethane	0.125	0.111	0.106	88.8	84.8	61.0-142			4.61	20
1,2,3-Trichloropropane	0.125	0.119	0.112	95.2	89.6	67.0-129			6.06	20
1,2,3-Trimethylbenzene	0.125	0.119	0.110	95.2	88.0	74.0-124			7.86	20
1,2,4-Trimethylbenzene	0.125	0.121	0.113	96.8	90.4	70.0-126			6.84	20
1,3,5-Trimethylbenzene	0.125	0.124	0.118	99.2	94.4	73.0-127			4.96	20
Vinyl acetate	0.625	0.600	0.529	96.0	84.6	43.0-159			12.6	20
Vinyl chloride	0.125	0.149	0.138	119	110	63.0-134			7.67	20
Xylenes, Total	0.375	0.356	0.339	94.9	90.4	72.0-127			4.89	20
(S) Toluene-d8				*87.8*	*99.3*	*75.0-131*				
(S) 4-Bromofluorobenzene				*100*	*110*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*90.8*	*89.8*	*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
PES Environmental, Inc.- WA

2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com;bhaldeman@pesenv.com;

Project Description:
American Linen

City/State Collected: Seattle WA

Please Circle: PT MT CT ET

Phone: 206-529-3980

Client Project #
1413.001.02.501l

Lab Project #
PESENVSWA-ALP

Collected by (print):
Chris DeBoer

Site/Facility ID # Former American Linen Supply

P.O. #

Collected by (signature):
Chris DeBoer
Immediately
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	NO3, CL, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	V8260C 40mlAmb/MeOH10ml/Syr	V8260ULLC 40mlAmb-HCl	dry weight 4ozCir-NoPres	Remarks	Sample # (lab only)
MW-349-51	Grab	SS	51	5/17/21	1110	2							X		X		-01
MW-349-56	Grab	SS	56	5/17/21	1120	2							X		X		-02
MW-349-61	Grab	SS	61	5/17/21	1130	2							X		X		-03
MW-349-66	Grab	SS	66	5/17/21	1150	2							X		X		-04
MW-349-68	Grab	SS	68	5/17/21	1200	2							X		X		-05
MW-349-49	Grab	SS	49	5/17/21	1210	2							X		X		-06
MW-348-49	Grab	SS	49	5/18/21	1240	2							X		X		-07
MW-348-54.5	Grab	SS	54.5	5/18/21	1310	2							X		X		-08
MW-348-60	Grab	SS	60	5/18/21	1325	2							X		X		-09
MW-348-41	Grab	SS	41	5/18/21	1345	2							X		X		-10

Chain of Custody Page 1 of 3

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SDG # L1355982
F195
Tabl

Acctnum: PESENVSWA
Template: T187404
Prelogin: P846732
PM: 546 - Jared Starkey
PB: DN 5/12/21
Shipped Via: FedEX Saver

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 9883 0088 7391

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: X N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeOH TBR	If preservation required by Login: Date/Time
Chris DeBoer	5/19/21	1700		Acct 1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: .7 °C Bottles Received: 48	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/20/21 Time: 930	Hold: Condition: NCF / OK

Company Name/Address:
PES Environmental, Inc.- WA

2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;bhaldeman@pesenv.com;

Project Description: American Linen

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: 206-529-3980

Client Project # 1413.001.02.501I

Lab Project # PESENVSWA-ALP

Collected by (print): Chris DeBoer

Collected by (signature): Chris DeBoer

Immediately Packed on Ice N ___ Y X

Site/Facility ID # Former American Linen Supply

P.O. #

Quote #

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	NO3, CL, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	V8260C 40mlAmb/MeOH10ml/Syr	V8260ULLC 40mlAmb-HCl	dry weight 4ozClr-NoPres	Remarks	Sample # (lab only)
MW-348-65	Grab	SS	65	5/18/21	1350	2							X		X		-11
MW-348-69	Grab	SS	69	5/18/21	1400	2							X		X		-12
MW-2027-44.5	Grab	SS	44.5	5/19/21	0940	2							X		X		-13
MW-347-48	Grab	SS	48	5/19/21	0950	2							X		X		-14
MW-347-54.5	Grab	SS	54.5	5/19/21	1010	2							X		X		-15
MW-347-58	Grab	SS	58	5/19/21	1020	2							X		X		-16
MW-347-65	Grab	SS	65	5/19/21	1040	2							X		X		-17
MW-347-44.5	Grab	SS	44.5	5/19/21	1050	2							X		X		-18
MW-346-41.5	Grab	SS	41.5	5/19/21	1420	2							X		X		-19
MW-346-47	Grab	SS	47	5/19/21	1435	2							X		X		-20

Chain of Custody Page 2 of 3

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SDG # CL355482

Table #

Acctnum: PESENVSWA

Template: T187404

Prelogin: P846732

PM: 546 - Jared Starkey

PB: DN 5/19/21

Shipped Via: FedEX Saver

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature) Chris DeBoer — Date: 5/19/21 — Time: 1700

Received by: (Signature)

Trip Blank Received: Yes / No HCL / MeoH TBR

Relinquished by : (Signature) — Date: — Time:

Received by: (Signature)

Temp: 7.1 °C 7.8 °C Bottles Received: 48

If preservation required by Login: Date/Time

Relinquished by : (Signature) — Date: — Time:

Received for lab by: (Signature)

Date: 5/20/21 Time: 930

Hold: Condition: NCF / OK

Company Name/Address:
PES Environmental, Inc.- WA

2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;bhaldeman@pesenv.com;

Project Description: American Linen

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: 206-529-3980

Client Project # 1413.001.02.501I

Lab Project # PESENVSWA-ALP

Collected by (print): Chris DeBoer

Site/Facility ID # Former American Linen Supply

P.O. #

Collected by (signature): Chris DeBoer

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	NO3, CL, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	V8260C 40mlAmb/MeOH10ml/Syr	V8260ULLC 40mlAmb-HCl	dry weight 4ozClr-NoPres	Remarks	Sample # (lab only)
MW-346-52	Grab	SS	52	5/19/21	1510	2							X		X		-21
MW-346-54.5	Grab	SS	54.5	5/19/21	1455	2							X		X		-22
MW-346-57.5 (DUP)	Grab	SS	57.5	5/19/21	1515	2							X		X		-23
MW-346-62	Grab	SS	62	5/19/21	1525	2							X		X		-24
TB-051921	—	SS	—	—	—	1							X				-25
		SS															
		SS															
		SS															
		SS															
		SS															

Chain of Custody Page 3 of 3

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SDG # L1355482

Table #

Acctnum: PESENVSWA
Template: T187404
Prelogin: P846732
PM: 546 - Jared Starkey
PB: DN 5/12/21
Shipped Via: FedEX Saver

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: X Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: (Yes) / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Chris DeBoer	5/19/21	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: -0.1 °C Bottles Received: 48	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/20/21 Time: 930	Hold: Condition: NCF / OK

ANALYTICAL REPORT

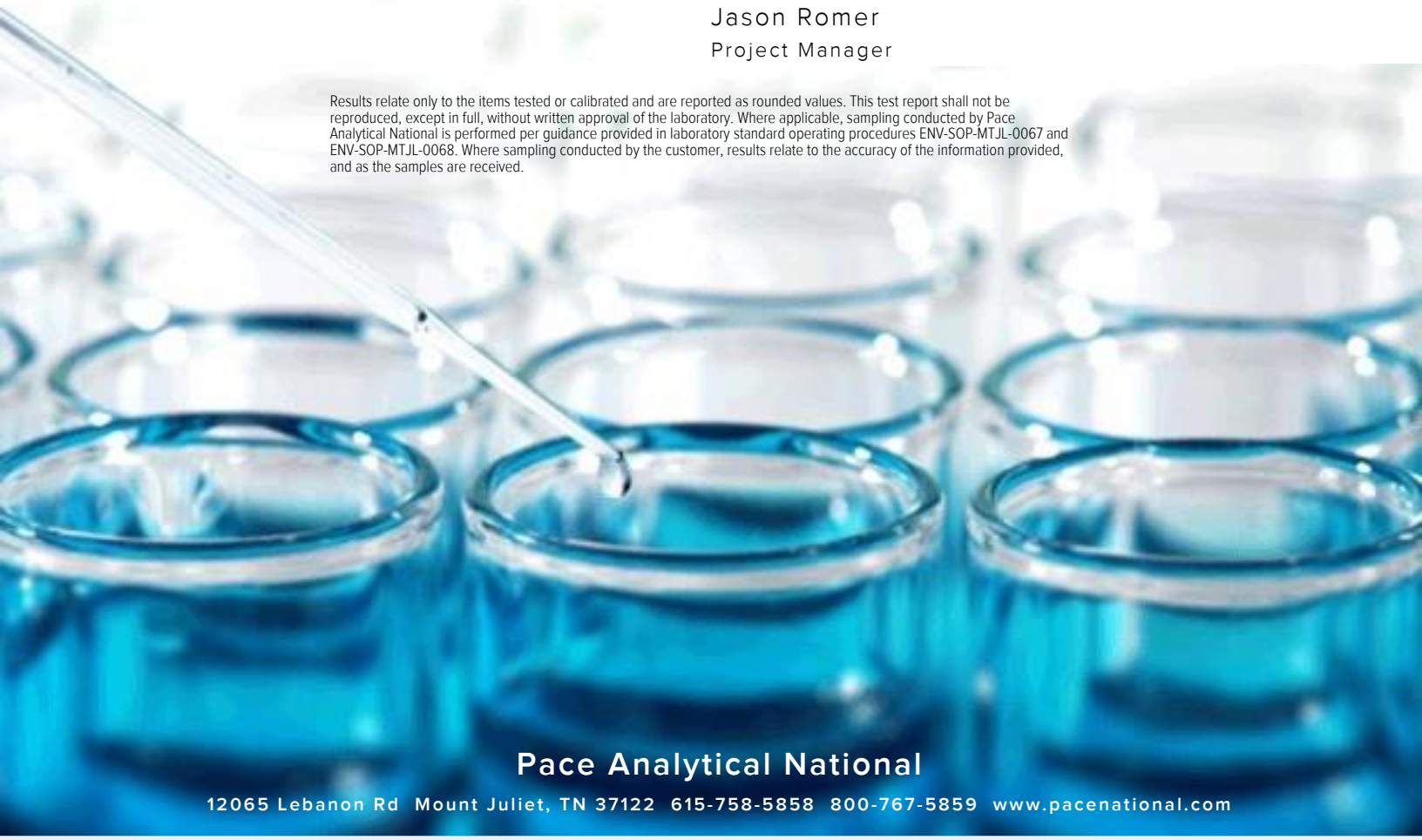
June 07, 2021

PES Environmental, Inc.- WA

Sample Delivery Group:	L1356967
Samples Received:	05/22/2021
Project Number:	1413.001.02.501l
Description:	American Linen
Site:	FORMER AMERICAN LINEN
Report To:	Brian O'Neal/Bill Haldeman 2101 Fourth Ave., Suite 1310 Seattle, WA 98121

Entire Report Reviewed By:

Jason Romer
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-345-41 L1356967-01 Solid

Collected by: Chris DeBoer | Collected date/time: 05/20/21 11:00 | Received date/time: 05/22/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1678715	1	05/28/21 10:14	05/28/21 10:22	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679467	1	05/20/21 11:00	05/29/21 03:59	ADM	Mt. Juliet, TN

MW-345-47 L1356967-02 Solid

Collected by: Chris DeBoer | Collected date/time: 05/20/21 11:10 | Received date/time: 05/22/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1678715	1	05/28/21 10:14	05/28/21 10:22	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679467	1	05/20/21 11:10	05/29/21 04:18	ADM	Mt. Juliet, TN

MW-345-53 L1356967-03 Solid

Collected by: Chris DeBoer | Collected date/time: 05/20/21 11:20 | Received date/time: 05/22/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1678715	1	05/28/21 10:14	05/28/21 10:22	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679467	1	05/20/21 11:20	05/29/21 04:37	ADM	Mt. Juliet, TN

MW-345-58 L1356967-04 Solid

Collected by: Chris DeBoer | Collected date/time: 05/20/21 11:30 | Received date/time: 05/22/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1678715	1	05/28/21 10:14	05/28/21 10:22	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679467	1.27	05/20/21 11:30	05/29/21 04:56	ADM	Mt. Juliet, TN

MW-345-63 L1356967-05 Solid

Collected by: Chris DeBoer | Collected date/time: 05/20/21 11:40 | Received date/time: 05/22/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1678715	1	05/28/21 10:14	05/28/21 10:22	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679467	1	05/20/21 11:40	05/29/21 05:15	ADM	Mt. Juliet, TN

MW-2023-47 L1356967-06 Solid

Collected by: Chris DeBoer | Collected date/time: 05/20/21 11:50 | Received date/time: 05/22/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1678716	1	05/28/21 17:10	05/28/21 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679467	1.27	05/20/21 11:50	05/29/21 05:34	ADM	Mt. Juliet, TN

MW-350-41 L1356967-07 Solid

Collected by: Chris DeBoer | Collected date/time: 05/21/21 09:30 | Received date/time: 05/22/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1678716	1	05/28/21 17:10	05/28/21 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679467	1	05/21/21 09:30	05/29/21 05:53	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1681489	8	05/21/21 09:30	06/02/21 17:39	ACG	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-350-53 L1356967-08 Solid

Collected by: Chris DeBoer | Collected date/time: 05/21/21 09:55 | Received date/time: 05/22/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1678716	1	05/28/21 17:10	05/28/21 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679467	1	05/21/21 09:55	05/29/21 06:12	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1681489	1	05/21/21 09:55	06/02/21 17:58	ACG	Mt. Juliet, TN

MW-350-58 L1356967-09 Solid

Collected by: Chris DeBoer | Collected date/time: 05/21/21 10:00 | Received date/time: 05/22/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1678716	1	05/28/21 17:10	05/28/21 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679467	1	05/21/21 10:00	05/29/21 06:31	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1681489	1	05/21/21 10:00	06/02/21 18:17	ACG	Mt. Juliet, TN

MW-350-64.5 L1356967-10 Solid

Collected by: Chris DeBoer | Collected date/time: 05/21/21 10:10 | Received date/time: 05/22/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1678716	1	05/28/21 17:10	05/28/21 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679467	1	05/21/21 10:10	05/29/21 06:50	ADM	Mt. Juliet, TN

MW-350-69 L1356967-11 Solid

Collected by: Chris DeBoer | Collected date/time: 05/21/21 10:20 | Received date/time: 05/22/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1678716	1	05/28/21 17:10	05/28/21 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679467	1	05/21/21 10:20	05/29/21 07:09	ADM	Mt. Juliet, TN

TB-052121 L1356967-12 Solid

Collected by: Chris DeBoer | Collected date/time: 05/21/21 00:00 | Received date/time: 05/22/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1679467	1	05/21/21 00:00	05/29/21 07:28	ADM	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	05/28/2021 10:22	WG1678715

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0450	0.0617	1	05/29/2021 03:59	WG1679467
Acrylonitrile	U		0.00445	0.0154	1	05/29/2021 03:59	WG1679467
Benzene	U		0.000576	0.00123	1	05/29/2021 03:59	WG1679467
Bromobenzene	U		0.00111	0.0154	1	05/29/2021 03:59	WG1679467
Bromodichloromethane	U		0.000894	0.00308	1	05/29/2021 03:59	WG1679467
Bromochloromethane	U		0.000695	0.00617	1	05/29/2021 03:59	WG1679467
Bromoform	U		0.00144	0.0308	1	05/29/2021 03:59	WG1679467
Bromomethane	U		0.00243	0.0154	1	05/29/2021 03:59	WG1679467
n-Butylbenzene	U		0.00647	0.0154	1	05/29/2021 03:59	WG1679467
sec-Butylbenzene	U		0.00355	0.0154	1	05/29/2021 03:59	WG1679467
tert-Butylbenzene	U		0.00240	0.00617	1	05/29/2021 03:59	WG1679467
Carbon disulfide	U	C3	0.000863	0.0154	1	05/29/2021 03:59	WG1679467
Carbon tetrachloride	U		0.00111	0.00617	1	05/29/2021 03:59	WG1679467
Chlorobenzene	U		0.000259	0.00308	1	05/29/2021 03:59	WG1679467
Chlorodibromomethane	U		0.000755	0.00308	1	05/29/2021 03:59	WG1679467
Chloroethane	U		0.00210	0.00617	1	05/29/2021 03:59	WG1679467
Chloroform	U		0.00127	0.00308	1	05/29/2021 03:59	WG1679467
Chloromethane	U		0.00536	0.0154	1	05/29/2021 03:59	WG1679467
2-Chlorotoluene	U		0.00107	0.00308	1	05/29/2021 03:59	WG1679467
4-Chlorotoluene	U		0.000555	0.00617	1	05/29/2021 03:59	WG1679467
1,2-Dibromo-3-Chloropropane	U		0.00481	0.0308	1	05/29/2021 03:59	WG1679467
1,2-Dibromoethane	U		0.000799	0.00308	1	05/29/2021 03:59	WG1679467
Dibromomethane	U		0.000925	0.00617	1	05/29/2021 03:59	WG1679467
1,2-Dichlorobenzene	U		0.000524	0.00617	1	05/29/2021 03:59	WG1679467
1,3-Dichlorobenzene	U		0.000740	0.00617	1	05/29/2021 03:59	WG1679467
1,4-Dichlorobenzene	U		0.000863	0.00617	1	05/29/2021 03:59	WG1679467
Dichlorodifluoromethane	U		0.00199	0.00308	1	05/29/2021 03:59	WG1679467
1,1-Dichloroethane	U		0.000605	0.00308	1	05/29/2021 03:59	WG1679467
1,2-Dichloroethane	U		0.000800	0.00308	1	05/29/2021 03:59	WG1679467
1,1-Dichloroethene	U		0.000747	0.00308	1	05/29/2021 03:59	WG1679467
cis-1,2-Dichloroethene	0.984		0.000905	0.00308	1	05/29/2021 03:59	WG1679467
trans-1,2-Dichloroethene	0.00746		0.00128	0.00617	1	05/29/2021 03:59	WG1679467
1,2-Dichloropropane	U		0.00175	0.00617	1	05/29/2021 03:59	WG1679467
1,1-Dichloropropene	U		0.000998	0.00308	1	05/29/2021 03:59	WG1679467
1,3-Dichloropropane	U		0.000618	0.00617	1	05/29/2021 03:59	WG1679467
cis-1,3-Dichloropropene	U		0.000933	0.00308	1	05/29/2021 03:59	WG1679467
trans-1,3-Dichloropropene	U		0.00141	0.00617	1	05/29/2021 03:59	WG1679467
trans-1,4-Dichloro-2-butene	U	J3	0.00229	0.00617	1	05/29/2021 03:59	WG1679467
2,2-Dichloropropane	U		0.00170	0.00308	1	05/29/2021 03:59	WG1679467
Di-isopropyl ether	U		0.000506	0.00123	1	05/29/2021 03:59	WG1679467
Ethylbenzene	U		0.000909	0.00308	1	05/29/2021 03:59	WG1679467
Hexachloro-1,3-butadiene	U		0.00740	0.0308	1	05/29/2021 03:59	WG1679467
2-Hexanone	U		0.00414	0.0308	1	05/29/2021 03:59	WG1679467
n-Hexane	U		0.00279	0.00617	1	05/29/2021 03:59	WG1679467
Iodomethane	U		0.00286	0.0154	1	05/29/2021 03:59	WG1679467
Isopropylbenzene	U		0.000524	0.00308	1	05/29/2021 03:59	WG1679467
p-Isopropyltoluene	U		0.00314	0.00617	1	05/29/2021 03:59	WG1679467
2-Butanone (MEK)	U		0.0783	0.123	1	05/29/2021 03:59	WG1679467
Methylene Chloride	U		0.00819	0.0308	1	05/29/2021 03:59	WG1679467
4-Methyl-2-pentanone (MIBK)	U		0.00281	0.0308	1	05/29/2021 03:59	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000432	0.00123	1	05/29/2021 03:59	WG1679467
Naphthalene	U		0.00602	0.0154	1	05/29/2021 03:59	WG1679467
n-Propylbenzene	U		0.00117	0.00617	1	05/29/2021 03:59	WG1679467
Styrene	U		0.000282	0.0154	1	05/29/2021 03:59	WG1679467
1,1,1,2-Tetrachloroethane	U		0.00117	0.00308	1	05/29/2021 03:59	WG1679467
1,1,2,2-Tetrachloroethane	U		0.000857	0.00308	1	05/29/2021 03:59	WG1679467
1,1,2-Trichlorotrifluoroethane	U		0.000930	0.00308	1	05/29/2021 03:59	WG1679467
Tetrachloroethene	0.275		0.00110	0.00308	1	05/29/2021 03:59	WG1679467
Toluene	U		0.00160	0.00617	1	05/29/2021 03:59	WG1679467
1,2,3-Trichlorobenzene	U	C4	0.00904	0.0154	1	05/29/2021 03:59	WG1679467
1,2,4-Trichlorobenzene	U	C4	0.00543	0.0154	1	05/29/2021 03:59	WG1679467
1,1,1-Trichloroethane	U		0.00114	0.00308	1	05/29/2021 03:59	WG1679467
1,1,2-Trichloroethane	U		0.000736	0.00308	1	05/29/2021 03:59	WG1679467
Trichloroethene	0.0273		0.000720	0.00123	1	05/29/2021 03:59	WG1679467
Trichlorofluoromethane	U		0.00102	0.00308	1	05/29/2021 03:59	WG1679467
1,2,3-Trichloropropane	U	J3	0.00200	0.0154	1	05/29/2021 03:59	WG1679467
1,2,4-Trimethylbenzene	U		0.00195	0.00617	1	05/29/2021 03:59	WG1679467
1,2,3-Trimethylbenzene	U		0.00195	0.00617	1	05/29/2021 03:59	WG1679467
1,3,5-Trimethylbenzene	U		0.00247	0.00617	1	05/29/2021 03:59	WG1679467
Vinyl acetate	U		0.00313	0.0154	1	05/29/2021 03:59	WG1679467
Vinyl chloride	0.189		0.00143	0.00308	1	05/29/2021 03:59	WG1679467
Xylenes, Total	U		0.00109	0.00801	1	05/29/2021 03:59	WG1679467
(S) Toluene-d8	*106*			*75.0-131*		*05/29/2021 03:59*	WG1679467
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*05/29/2021 03:59*	WG1679467
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*05/29/2021 03:59*	WG1679467

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.7		1	05/28/2021 10:22	WG1678715

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0429	0.0588	1	05/29/2021 04:18	WG1679467
Acrylonitrile	U		0.00424	0.0147	1	05/29/2021 04:18	WG1679467
Benzene	U		0.000549	0.00118	1	05/29/2021 04:18	WG1679467
Bromobenzene	U		0.00106	0.0147	1	05/29/2021 04:18	WG1679467
Bromodichloromethane	U		0.000852	0.00294	1	05/29/2021 04:18	WG1679467
Bromochloromethane	U		0.000663	0.00588	1	05/29/2021 04:18	WG1679467
Bromoform	U		0.00137	0.0294	1	05/29/2021 04:18	WG1679467
Bromomethane	U		0.00232	0.0147	1	05/29/2021 04:18	WG1679467
n-Butylbenzene	U		0.00617	0.0147	1	05/29/2021 04:18	WG1679467
sec-Butylbenzene	U		0.00338	0.0147	1	05/29/2021 04:18	WG1679467
tert-Butylbenzene	U		0.00229	0.00588	1	05/29/2021 04:18	WG1679467
Carbon disulfide	0.00116	C3 J	0.000823	0.0147	1	05/29/2021 04:18	WG1679467
Carbon tetrachloride	U		0.00106	0.00588	1	05/29/2021 04:18	WG1679467
Chlorobenzene	U		0.000247	0.00294	1	05/29/2021 04:18	WG1679467
Chlorodibromomethane	U		0.000719	0.00294	1	05/29/2021 04:18	WG1679467
Chloroethane	U		0.00200	0.00588	1	05/29/2021 04:18	WG1679467
Chloroform	U		0.00121	0.00294	1	05/29/2021 04:18	WG1679467
Chloromethane	U		0.00511	0.0147	1	05/29/2021 04:18	WG1679467
2-Chlorotoluene	U		0.00102	0.00294	1	05/29/2021 04:18	WG1679467
4-Chlorotoluene	U		0.000529	0.00588	1	05/29/2021 04:18	WG1679467
1,2-Dibromo-3-Chloropropane	U		0.00458	0.0294	1	05/29/2021 04:18	WG1679467
1,2-Dibromoethane	U		0.000762	0.00294	1	05/29/2021 04:18	WG1679467
Dibromomethane	U		0.000881	0.00588	1	05/29/2021 04:18	WG1679467
1,2-Dichlorobenzene	U		0.000499	0.00588	1	05/29/2021 04:18	WG1679467
1,3-Dichlorobenzene	U		0.000705	0.00588	1	05/29/2021 04:18	WG1679467
1,4-Dichlorobenzene	U		0.000823	0.00588	1	05/29/2021 04:18	WG1679467
Dichlorodifluoromethane	U		0.00189	0.00294	1	05/29/2021 04:18	WG1679467
1,1-Dichloroethane	U		0.000577	0.00294	1	05/29/2021 04:18	WG1679467
1,2-Dichloroethane	U		0.000763	0.00294	1	05/29/2021 04:18	WG1679467
1,1-Dichloroethene	U		0.000712	0.00294	1	05/29/2021 04:18	WG1679467
cis-1,2-Dichloroethene	0.0973		0.000863	0.00294	1	05/29/2021 04:18	WG1679467
trans-1,2-Dichloroethene	U		0.00122	0.00588	1	05/29/2021 04:18	WG1679467
1,2-Dichloropropane	U		0.00167	0.00588	1	05/29/2021 04:18	WG1679467
1,1-Dichloropropene	U		0.000951	0.00294	1	05/29/2021 04:18	WG1679467
1,3-Dichloropropane	U		0.000589	0.00588	1	05/29/2021 04:18	WG1679467
cis-1,3-Dichloropropene	U		0.000890	0.00294	1	05/29/2021 04:18	WG1679467
trans-1,3-Dichloropropene	U		0.00134	0.00588	1	05/29/2021 04:18	WG1679467
trans-1,4-Dichloro-2-butene	U	J3	0.00219	0.00588	1	05/29/2021 04:18	WG1679467
2,2-Dichloropropane	U		0.00162	0.00294	1	05/29/2021 04:18	WG1679467
Di-isopropyl ether	U		0.000482	0.00118	1	05/29/2021 04:18	WG1679467
Ethylbenzene	U		0.000866	0.00294	1	05/29/2021 04:18	WG1679467
Hexachloro-1,3-butadiene	U		0.00705	0.0294	1	05/29/2021 04:18	WG1679467
2-Hexanone	U		0.00395	0.0294	1	05/29/2021 04:18	WG1679467
n-Hexane	0.00549	J	0.00266	0.00588	1	05/29/2021 04:18	WG1679467
Iodomethane	U		0.00273	0.0147	1	05/29/2021 04:18	WG1679467
Isopropylbenzene	U		0.000499	0.00294	1	05/29/2021 04:18	WG1679467
p-Isopropyltoluene	U		0.00300	0.00588	1	05/29/2021 04:18	WG1679467
2-Butanone (MEK)	U		0.0746	0.118	1	05/29/2021 04:18	WG1679467
Methylene Chloride	U		0.00780	0.0294	1	05/29/2021 04:18	WG1679467
4-Methyl-2-pentanone (MIBK)	U		0.00268	0.0294	1	05/29/2021 04:18	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000411	0.00118	1	05/29/2021 04:18	WG1679467
Naphthalene	U		0.00573	0.0147	1	05/29/2021 04:18	WG1679467
n-Propylbenzene	U		0.00112	0.00588	1	05/29/2021 04:18	WG1679467
Styrene	0.000555	J	0.000269	0.0147	1	05/29/2021 04:18	WG1679467
1,1,1,2-Tetrachloroethane	U		0.00111	0.00294	1	05/29/2021 04:18	WG1679467
1,1,2,2-Tetrachloroethane	U		0.000817	0.00294	1	05/29/2021 04:18	WG1679467
1,1,2-Trichlorotrifluoroethane	U		0.000886	0.00294	1	05/29/2021 04:18	WG1679467
Tetrachloroethene	0.0228		0.00105	0.00294	1	05/29/2021 04:18	WG1679467
Toluene	0.00220	J	0.00153	0.00588	1	05/29/2021 04:18	WG1679467
1,2,3-Trichlorobenzene	U	C4	0.00861	0.0147	1	05/29/2021 04:18	WG1679467
1,2,4-Trichlorobenzene	U	C4	0.00517	0.0147	1	05/29/2021 04:18	WG1679467
1,1,1-Trichloroethane	U		0.00108	0.00294	1	05/29/2021 04:18	WG1679467
1,1,2-Trichloroethane	U		0.000702	0.00294	1	05/29/2021 04:18	WG1679467
Trichloroethene	0.00257		0.000686	0.00118	1	05/29/2021 04:18	WG1679467
Trichlorofluoromethane	U		0.000972	0.00294	1	05/29/2021 04:18	WG1679467
1,2,3-Trichloropropane	U	J3	0.00190	0.0147	1	05/29/2021 04:18	WG1679467
1,2,4-Trimethylbenzene	U		0.00186	0.00588	1	05/29/2021 04:18	WG1679467
1,2,3-Trimethylbenzene	U		0.00186	0.00588	1	05/29/2021 04:18	WG1679467
1,3,5-Trimethylbenzene	U		0.00235	0.00588	1	05/29/2021 04:18	WG1679467
Vinyl acetate	U		0.00299	0.0147	1	05/29/2021 04:18	WG1679467
Vinyl chloride	0.181		0.00136	0.00294	1	05/29/2021 04:18	WG1679467
Xylenes, Total	U		0.00103	0.00764	1	05/29/2021 04:18	WG1679467
(S) Toluene-d8	*105*			*75.0-131*		*05/29/2021 04:18*	WG1679467
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*05/29/2021 04:18*	WG1679467
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*05/29/2021 04:18*	WG1679467

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.3		1	05/28/2021 10:22	WG1678715

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0427	0.0585	1	05/29/2021 04:37	WG1679467
Acrylonitrile	U		0.00422	0.0146	1	05/29/2021 04:37	WG1679467
Benzene	U		0.000546	0.00117	1	05/29/2021 04:37	WG1679467
Bromobenzene	U		0.00105	0.0146	1	05/29/2021 04:37	WG1679467
Bromodichloromethane	U		0.000848	0.00292	1	05/29/2021 04:37	WG1679467
Bromochloromethane	U		0.000660	0.00585	1	05/29/2021 04:37	WG1679467
Bromoform	U		0.00137	0.0292	1	05/29/2021 04:37	WG1679467
Bromomethane	U		0.00230	0.0146	1	05/29/2021 04:37	WG1679467
n-Butylbenzene	U		0.00614	0.0146	1	05/29/2021 04:37	WG1679467
sec-Butylbenzene	U		0.00337	0.0146	1	05/29/2021 04:37	WG1679467
tert-Butylbenzene	U		0.00228	0.00585	1	05/29/2021 04:37	WG1679467
Carbon disulfide	U	C3	0.000819	0.0146	1	05/29/2021 04:37	WG1679467
Carbon tetrachloride	U		0.00105	0.00585	1	05/29/2021 04:37	WG1679467
Chlorobenzene	U		0.000246	0.00292	1	05/29/2021 04:37	WG1679467
Chlorodibromomethane	U		0.000716	0.00292	1	05/29/2021 04:37	WG1679467
Chloroethane	U		0.00199	0.00585	1	05/29/2021 04:37	WG1679467
Chloroform	U		0.00120	0.00292	1	05/29/2021 04:37	WG1679467
Chloromethane	U		0.00509	0.0146	1	05/29/2021 04:37	WG1679467
2-Chlorotoluene	U		0.00101	0.00292	1	05/29/2021 04:37	WG1679467
4-Chlorotoluene	U		0.000526	0.00585	1	05/29/2021 04:37	WG1679467
1,2-Dibromo-3-Chloropropane	U		0.00456	0.0292	1	05/29/2021 04:37	WG1679467
1,2-Dibromoethane	U		0.000758	0.00292	1	05/29/2021 04:37	WG1679467
Dibromomethane	U		0.000877	0.00585	1	05/29/2021 04:37	WG1679467
1,2-Dichlorobenzene	U		0.000497	0.00585	1	05/29/2021 04:37	WG1679467
1,3-Dichlorobenzene	U		0.000702	0.00585	1	05/29/2021 04:37	WG1679467
1,4-Dichlorobenzene	U		0.000819	0.00585	1	05/29/2021 04:37	WG1679467
Dichlorodifluoromethane	U		0.00188	0.00292	1	05/29/2021 04:37	WG1679467
1,1-Dichloroethane	U		0.000574	0.00292	1	05/29/2021 04:37	WG1679467
1,2-Dichloroethane	U		0.000759	0.00292	1	05/29/2021 04:37	WG1679467
1,1-Dichloroethene	U		0.000709	0.00292	1	05/29/2021 04:37	WG1679467
cis-1,2-Dichloroethene	U		0.000859	0.00292	1	05/29/2021 04:37	WG1679467
trans-1,2-Dichloroethene	U		0.00122	0.00585	1	05/29/2021 04:37	WG1679467
1,2-Dichloropropane	U		0.00166	0.00585	1	05/29/2021 04:37	WG1679467
1,1-Dichloropropene	U		0.000946	0.00292	1	05/29/2021 04:37	WG1679467
1,3-Dichloropropane	U		0.000586	0.00585	1	05/29/2021 04:37	WG1679467
cis-1,3-Dichloropropene	U		0.000886	0.00292	1	05/29/2021 04:37	WG1679467
trans-1,3-Dichloropropene	U		0.00133	0.00585	1	05/29/2021 04:37	WG1679467
trans-1,4-Dichloro-2-butene	U	J3	0.00218	0.00585	1	05/29/2021 04:37	WG1679467
2,2-Dichloropropane	U		0.00161	0.00292	1	05/29/2021 04:37	WG1679467
Di-isopropyl ether	U		0.000480	0.00117	1	05/29/2021 04:37	WG1679467
Ethylbenzene	U		0.000862	0.00292	1	05/29/2021 04:37	WG1679467
Hexachloro-1,3-butadiene	U		0.00702	0.0292	1	05/29/2021 04:37	WG1679467
2-Hexanone	U		0.00393	0.0292	1	05/29/2021 04:37	WG1679467
n-Hexane	U		0.00264	0.00585	1	05/29/2021 04:37	WG1679467
Iodomethane	U		0.00271	0.0146	1	05/29/2021 04:37	WG1679467
Isopropylbenzene	U		0.000497	0.00292	1	05/29/2021 04:37	WG1679467
p-Isopropyltoluene	U		0.00298	0.00585	1	05/29/2021 04:37	WG1679467
2-Butanone (MEK)	U		0.0743	0.117	1	05/29/2021 04:37	WG1679467
Methylene Chloride	U		0.00777	0.0292	1	05/29/2021 04:37	WG1679467
4-Methyl-2-pentanone (MIBK)	U		0.00267	0.0292	1	05/29/2021 04:37	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000409	0.00117	1	05/29/2021 04:37	WG1679467
Naphthalene	U		0.00571	0.0146	1	05/29/2021 04:37	WG1679467
n-Propylbenzene	U		0.00111	0.00585	1	05/29/2021 04:37	WG1679467
Styrene	U		0.000268	0.0146	1	05/29/2021 04:37	WG1679467
1,1,1,2-Tetrachloroethane	U		0.00111	0.00292	1	05/29/2021 04:37	WG1679467
1,1,2,2-Tetrachloroethane	U		0.000813	0.00292	1	05/29/2021 04:37	WG1679467
1,1,2-Trichlorotrifluoroethane	U		0.000882	0.00292	1	05/29/2021 04:37	WG1679467
Tetrachloroethene	U		0.00105	0.00292	1	05/29/2021 04:37	WG1679467
Toluene	U		0.00152	0.00585	1	05/29/2021 04:37	WG1679467
1,2,3-Trichlorobenzene	U	C4	0.00857	0.0146	1	05/29/2021 04:37	WG1679467
1,2,4-Trichlorobenzene	U	C4	0.00515	0.0146	1	05/29/2021 04:37	WG1679467
1,1,1-Trichloroethane	U		0.00108	0.00292	1	05/29/2021 04:37	WG1679467
1,1,2-Trichloroethane	U		0.000698	0.00292	1	05/29/2021 04:37	WG1679467
Trichloroethene	U		0.000683	0.00117	1	05/29/2021 04:37	WG1679467
Trichlorofluoromethane	U		0.000967	0.00292	1	05/29/2021 04:37	WG1679467
1,2,3-Trichloropropane	U	J3	0.00190	0.0146	1	05/29/2021 04:37	WG1679467
1,2,4-Trimethylbenzene	U		0.00185	0.00585	1	05/29/2021 04:37	WG1679467
1,2,3-Trimethylbenzene	U		0.00185	0.00585	1	05/29/2021 04:37	WG1679467
1,3,5-Trimethylbenzene	U		0.00234	0.00585	1	05/29/2021 04:37	WG1679467
Vinyl acetate	U		0.00297	0.0146	1	05/29/2021 04:37	WG1679467
Vinyl chloride	U		0.00136	0.00292	1	05/29/2021 04:37	WG1679467
Xylenes, Total	U		0.00103	0.00760	1	05/29/2021 04:37	WG1679467
(S) Toluene-d8	*104*			*75.0-131*		*05/29/2021 04:37*	WG1679467
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*05/29/2021 04:37*	WG1679467
(S) 1,2-Dichloroethane-d4	*96.9*			*70.0-130*		*05/29/2021 04:37*	WG1679467

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.1		1	05/28/2021 10:22	WG1678715

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0535	0.0732	1.27	05/29/2021 04:56	WG1679467
Acrylonitrile	U		0.00528	0.0183	1.27	05/29/2021 04:56	WG1679467
Benzene	U		0.000684	0.00146	1.27	05/29/2021 04:56	WG1679467
Bromobenzene	U		0.00131	0.0183	1.27	05/29/2021 04:56	WG1679467
Bromodichloromethane	U		0.00106	0.00367	1.27	05/29/2021 04:56	WG1679467
Bromochloromethane	U		0.000826	0.00732	1.27	05/29/2021 04:56	WG1679467
Bromoform	U		0.00172	0.0367	1.27	05/29/2021 04:56	WG1679467
Bromomethane	U		0.00288	0.0183	1.27	05/29/2021 04:56	WG1679467
n-Butylbenzene	U		0.00769	0.0183	1.27	05/29/2021 04:56	WG1679467
sec-Butylbenzene	U		0.00422	0.0183	1.27	05/29/2021 04:56	WG1679467
tert-Butylbenzene	U		0.00286	0.00732	1.27	05/29/2021 04:56	WG1679467
Carbon disulfide	0.00611	C3 J	0.00103	0.0183	1.27	05/29/2021 04:56	WG1679467
Carbon tetrachloride	U		0.00131	0.00732	1.27	05/29/2021 04:56	WG1679467
Chlorobenzene	U		0.000308	0.00367	1.27	05/29/2021 04:56	WG1679467
Chlorodibromomethane	U		0.000896	0.00367	1.27	05/29/2021 04:56	WG1679467
Chloroethane	U		0.00249	0.00732	1.27	05/29/2021 04:56	WG1679467
Chloroform	U		0.00151	0.00367	1.27	05/29/2021 04:56	WG1679467
Chloromethane	U		0.00636	0.0183	1.27	05/29/2021 04:56	WG1679467
2-Chlorotoluene	U		0.00127	0.00367	1.27	05/29/2021 04:56	WG1679467
4-Chlorotoluene	U		0.000658	0.00732	1.27	05/29/2021 04:56	WG1679467
1,2-Dibromo-3-Chloropropane	U		0.00571	0.0367	1.27	05/29/2021 04:56	WG1679467
1,2-Dibromoethane	U		0.000949	0.00367	1.27	05/29/2021 04:56	WG1679467
Dibromomethane	U		0.00110	0.00732	1.27	05/29/2021 04:56	WG1679467
1,2-Dichlorobenzene	U		0.000623	0.00732	1.27	05/29/2021 04:56	WG1679467
1,3-Dichlorobenzene	U		0.000879	0.00732	1.27	05/29/2021 04:56	WG1679467
1,4-Dichlorobenzene	U		0.00103	0.00732	1.27	05/29/2021 04:56	WG1679467
Dichlorodifluoromethane	U		0.00235	0.00367	1.27	05/29/2021 04:56	WG1679467
1,1-Dichloroethane	U		0.000720	0.00367	1.27	05/29/2021 04:56	WG1679467
1,2-Dichloroethane	U		0.000950	0.00367	1.27	05/29/2021 04:56	WG1679467
1,1-Dichloroethene	U		0.000888	0.00367	1.27	05/29/2021 04:56	WG1679467
cis-1,2-Dichloroethene	0.108		0.00107	0.00367	1.27	05/29/2021 04:56	WG1679467
trans-1,2-Dichloroethene	U		0.00152	0.00732	1.27	05/29/2021 04:56	WG1679467
1,2-Dichloropropane	U		0.00208	0.00732	1.27	05/29/2021 04:56	WG1679467
1,1-Dichloropropene	U		0.00119	0.00367	1.27	05/29/2021 04:56	WG1679467
1,3-Dichloropropane	U		0.000733	0.00732	1.27	05/29/2021 04:56	WG1679467
cis-1,3-Dichloropropene	U		0.00111	0.00367	1.27	05/29/2021 04:56	WG1679467
trans-1,3-Dichloropropene	U		0.00167	0.00732	1.27	05/29/2021 04:56	WG1679467
trans-1,4-Dichloro-2-butene	U	J3	0.00272	0.00732	1.27	05/29/2021 04:56	WG1679467
2,2-Dichloropropane	U		0.00202	0.00367	1.27	05/29/2021 04:56	WG1679467
Di-isopropyl ether	U		0.000601	0.00146	1.27	05/29/2021 04:56	WG1679467
Ethylbenzene	U		0.00108	0.00367	1.27	05/29/2021 04:56	WG1679467
Hexachloro-1,3-butadiene	U		0.00879	0.0367	1.27	05/29/2021 04:56	WG1679467
2-Hexanone	U		0.00492	0.0367	1.27	05/29/2021 04:56	WG1679467
n-Hexane	0.0100		0.00331	0.00732	1.27	05/29/2021 04:56	WG1679467
Iodomethane	U		0.00340	0.0183	1.27	05/29/2021 04:56	WG1679467
Isopropylbenzene	U		0.000623	0.00367	1.27	05/29/2021 04:56	WG1679467
p-Isopropyltoluene	U		0.00374	0.00732	1.27	05/29/2021 04:56	WG1679467
2-Butanone (MEK)	U		0.0929	0.146	1.27	05/29/2021 04:56	WG1679467
Methylene Chloride	U		0.00972	0.0367	1.27	05/29/2021 04:56	WG1679467
4-Methyl-2-pentanone (MIBK)	U		0.00334	0.0367	1.27	05/29/2021 04:56	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000513	0.00146	1.27	05/29/2021 04:56	WG1679467
Naphthalene	U		0.00715	0.0183	1.27	05/29/2021 04:56	WG1679467
n-Propylbenzene	U		0.00140	0.00732	1.27	05/29/2021 04:56	WG1679467
Styrene	U		0.000336	0.0183	1.27	05/29/2021 04:56	WG1679467
1,1,1,2-Tetrachloroethane	U		0.00138	0.00367	1.27	05/29/2021 04:56	WG1679467
1,1,2,2-Tetrachloroethane	U		0.00102	0.00367	1.27	05/29/2021 04:56	WG1679467
1,1,2-Trichlorotrifluoroethane	U		0.00110	0.00367	1.27	05/29/2021 04:56	WG1679467
Tetrachloroethene	0.181		0.00131	0.00367	1.27	05/29/2021 04:56	WG1679467
Toluene	0.00259	J	0.00190	0.00732	1.27	05/29/2021 04:56	WG1679467
1,2,3-Trichlorobenzene	U	C4	0.0107	0.0183	1.27	05/29/2021 04:56	WG1679467
1,2,4-Trichlorobenzene	U	C4	0.00645	0.0183	1.27	05/29/2021 04:56	WG1679467
1,1,1-Trichloroethane	U		0.00135	0.00367	1.27	05/29/2021 04:56	WG1679467
1,1,2-Trichloroethane	U		0.000874	0.00367	1.27	05/29/2021 04:56	WG1679467
Trichloroethene	0.0175		0.000856	0.00146	1.27	05/29/2021 04:56	WG1679467
Trichlorofluoromethane	U		0.00121	0.00367	1.27	05/29/2021 04:56	WG1679467
1,2,3-Trichloropropane	U	J3	0.00238	0.0183	1.27	05/29/2021 04:56	WG1679467
1,2,4-Trimethylbenzene	U		0.00232	0.00732	1.27	05/29/2021 04:56	WG1679467
1,2,3-Trimethylbenzene	U		0.00232	0.00732	1.27	05/29/2021 04:56	WG1679467
1,3,5-Trimethylbenzene	U		0.00293	0.00732	1.27	05/29/2021 04:56	WG1679467
Vinyl acetate	U		0.00372	0.0183	1.27	05/29/2021 04:56	WG1679467
Vinyl chloride	0.0184		0.00169	0.00367	1.27	05/29/2021 04:56	WG1679467
Xylenes, Total	U		0.00129	0.00952	1.27	05/29/2021 04:56	WG1679467
(S) Toluene-d8	*105*			*75.0-131*		*05/29/2021 04:56*	WG1679467
(S) 4-Bromofluorobenzene	*97.4*			*67.0-138*		*05/29/2021 04:56*	WG1679467
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*		*05/29/2021 04:56*	WG1679467

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	05/28/2021 10:22	WG1678715

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0490	0.0671	1	05/29/2021 05:15	WG1679467
Acrylonitrile	U		0.00484	0.0168	1	05/29/2021 05:15	WG1679467
Benzene	U		0.000627	0.00134	1	05/29/2021 05:15	WG1679467
Bromobenzene	U		0.00121	0.0168	1	05/29/2021 05:15	WG1679467
Bromodichloromethane	U		0.000973	0.00335	1	05/29/2021 05:15	WG1679467
Bromochloromethane	U		0.000757	0.00671	1	05/29/2021 05:15	WG1679467
Bromoform	U		0.00157	0.0335	1	05/29/2021 05:15	WG1679467
Bromomethane	U		0.00264	0.0168	1	05/29/2021 05:15	WG1679467
n-Butylbenzene	U		0.00704	0.0168	1	05/29/2021 05:15	WG1679467
sec-Butylbenzene	U		0.00386	0.0168	1	05/29/2021 05:15	WG1679467
tert-Butylbenzene	U		0.00262	0.00671	1	05/29/2021 05:15	WG1679467
Carbon disulfide	U	C3	0.000939	0.0168	1	05/29/2021 05:15	WG1679467
Carbon tetrachloride	U		0.00120	0.00671	1	05/29/2021 05:15	WG1679467
Chlorobenzene	U		0.000282	0.00335	1	05/29/2021 05:15	WG1679467
Chlorodibromomethane	U		0.000821	0.00335	1	05/29/2021 05:15	WG1679467
Chloroethane	U		0.00228	0.00671	1	05/29/2021 05:15	WG1679467
Chloroform	U		0.00138	0.00335	1	05/29/2021 05:15	WG1679467
Chloromethane	U		0.00584	0.0168	1	05/29/2021 05:15	WG1679467
2-Chlorotoluene	U		0.00116	0.00335	1	05/29/2021 05:15	WG1679467
4-Chlorotoluene	U		0.000604	0.00671	1	05/29/2021 05:15	WG1679467
1,2-Dibromo-3-Chloropropane	U		0.00523	0.0335	1	05/29/2021 05:15	WG1679467
1,2-Dibromoethane	U		0.000870	0.00335	1	05/29/2021 05:15	WG1679467
Dibromomethane	U		0.00101	0.00671	1	05/29/2021 05:15	WG1679467
1,2-Dichlorobenzene	U		0.000570	0.00671	1	05/29/2021 05:15	WG1679467
1,3-Dichlorobenzene	U		0.000805	0.00671	1	05/29/2021 05:15	WG1679467
1,4-Dichlorobenzene	U		0.000939	0.00671	1	05/29/2021 05:15	WG1679467
Dichlorodifluoromethane	U		0.00216	0.00335	1	05/29/2021 05:15	WG1679467
1,1-Dichloroethane	U		0.000659	0.00335	1	05/29/2021 05:15	WG1679467
1,2-Dichloroethane	U		0.000871	0.00335	1	05/29/2021 05:15	WG1679467
1,1-Dichloroethene	U		0.000813	0.00335	1	05/29/2021 05:15	WG1679467
cis-1,2-Dichloroethene	U		0.000985	0.00335	1	05/29/2021 05:15	WG1679467
trans-1,2-Dichloroethene	U		0.00140	0.00671	1	05/29/2021 05:15	WG1679467
1,2-Dichloropropane	U		0.00191	0.00671	1	05/29/2021 05:15	WG1679467
1,1-Dichloropropene	U		0.00109	0.00335	1	05/29/2021 05:15	WG1679467
1,3-Dichloropropane	U		0.000672	0.00671	1	05/29/2021 05:15	WG1679467
cis-1,3-Dichloropropene	U		0.00102	0.00335	1	05/29/2021 05:15	WG1679467
trans-1,3-Dichloropropene	U		0.00153	0.00671	1	05/29/2021 05:15	WG1679467
trans-1,4-Dichloro-2-butene	U	J3	0.00250	0.00671	1	05/29/2021 05:15	WG1679467
2,2-Dichloropropane	U		0.00185	0.00335	1	05/29/2021 05:15	WG1679467
Di-isopropyl ether	U		0.000550	0.00134	1	05/29/2021 05:15	WG1679467
Ethylbenzene	U		0.000989	0.00335	1	05/29/2021 05:15	WG1679467
Hexachloro-1,3-butadiene	U		0.00805	0.0335	1	05/29/2021 05:15	WG1679467
2-Hexanone	U		0.00451	0.0335	1	05/29/2021 05:15	WG1679467
n-Hexane	U		0.00303	0.00671	1	05/29/2021 05:15	WG1679467
Iodomethane	U		0.00311	0.0168	1	05/29/2021 05:15	WG1679467
Isopropylbenzene	U		0.000570	0.00335	1	05/29/2021 05:15	WG1679467
p-Isopropyltoluene	U		0.00342	0.00671	1	05/29/2021 05:15	WG1679467
2-Butanone (MEK)	U		0.0852	0.134	1	05/29/2021 05:15	WG1679467
Methylene Chloride	U		0.00891	0.0335	1	05/29/2021 05:15	WG1679467
4-Methyl-2-pentanone (MIBK)	U		0.00306	0.0335	1	05/29/2021 05:15	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000470	0.00134	1	05/29/2021 05:15	WG1679467
Naphthalene	U		0.00655	0.0168	1	05/29/2021 05:15	WG1679467
n-Propylbenzene	U		0.00127	0.00671	1	05/29/2021 05:15	WG1679467
Styrene	U		0.000307	0.0168	1	05/29/2021 05:15	WG1679467
1,1,1,2-Tetrachloroethane	U		0.00127	0.00335	1	05/29/2021 05:15	WG1679467
1,1,2,2-Tetrachloroethane	U		0.000933	0.00335	1	05/29/2021 05:15	WG1679467
1,1,2-Trichlorotrifluoroethane	U		0.00101	0.00335	1	05/29/2021 05:15	WG1679467
Tetrachloroethene	U		0.00120	0.00335	1	05/29/2021 05:15	WG1679467
Toluene	U		0.00174	0.00671	1	05/29/2021 05:15	WG1679467
1,2,3-Trichlorobenzene	U	C4	0.00984	0.0168	1	05/29/2021 05:15	WG1679467
1,2,4-Trichlorobenzene	U	C4	0.00590	0.0168	1	05/29/2021 05:15	WG1679467
1,1,1-Trichloroethane	U		0.00124	0.00335	1	05/29/2021 05:15	WG1679467
1,1,2-Trichloroethane	U		0.000801	0.00335	1	05/29/2021 05:15	WG1679467
Trichloroethene	U		0.000784	0.00134	1	05/29/2021 05:15	WG1679467
Trichlorofluoromethane	U		0.00111	0.00335	1	05/29/2021 05:15	WG1679467
1,2,3-Trichloropropane	U	J3	0.00217	0.0168	1	05/29/2021 05:15	WG1679467
1,2,4-Trimethylbenzene	U		0.00212	0.00671	1	05/29/2021 05:15	WG1679467
1,2,3-Trimethylbenzene	U		0.00212	0.00671	1	05/29/2021 05:15	WG1679467
1,3,5-Trimethylbenzene	U		0.00268	0.00671	1	05/29/2021 05:15	WG1679467
Vinyl acetate	U		0.00341	0.0168	1	05/29/2021 05:15	WG1679467
Vinyl chloride	U		0.00156	0.00335	1	05/29/2021 05:15	WG1679467
Xylenes, Total	U		0.00118	0.00872	1	05/29/2021 05:15	WG1679467
(S) Toluene-d8	*105*			*75.0-131*		*05/29/2021 05:15*	WG1679467
(S) 4-Bromofluorobenzene	*97.4*			*67.0-138*		*05/29/2021 05:15*	WG1679467
(S) 1,2-Dichloroethane-d4	*95.7*			*70.0-130*		*05/29/2021 05:15*	WG1679467

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.8		1	05/28/2021 17:16	WG1678716

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0529	0.0723	1.27	05/29/2021 05:34	WG1679467
Acrylonitrile	U		0.00522	0.0181	1.27	05/29/2021 05:34	WG1679467
Benzene	U		0.000675	0.00145	1.27	05/29/2021 05:34	WG1679467
Bromobenzene	U		0.00130	0.0181	1.27	05/29/2021 05:34	WG1679467
Bromodichloromethane	U		0.00105	0.00362	1.27	05/29/2021 05:34	WG1679467
Bromochloromethane	U		0.000816	0.00723	1.27	05/29/2021 05:34	WG1679467
Bromoform	U		0.00170	0.0362	1.27	05/29/2021 05:34	WG1679467
Bromomethane	U		0.00285	0.0181	1.27	05/29/2021 05:34	WG1679467
n-Butylbenzene	U		0.00760	0.0181	1.27	05/29/2021 05:34	WG1679467
sec-Butylbenzene	U		0.00417	0.0181	1.27	05/29/2021 05:34	WG1679467
tert-Butylbenzene	U		0.00282	0.00723	1.27	05/29/2021 05:34	WG1679467
Carbon disulfide	U	C3	0.00101	0.0181	1.27	05/29/2021 05:34	WG1679467
Carbon tetrachloride	U		0.00130	0.00723	1.27	05/29/2021 05:34	WG1679467
Chlorobenzene	U		0.000304	0.00362	1.27	05/29/2021 05:34	WG1679467
Chlorodibromomethane	U		0.000885	0.00362	1.27	05/29/2021 05:34	WG1679467
Chloroethane	U		0.00246	0.00723	1.27	05/29/2021 05:34	WG1679467
Chloroform	U		0.00149	0.00362	1.27	05/29/2021 05:34	WG1679467
Chloromethane	U		0.00629	0.0181	1.27	05/29/2021 05:34	WG1679467
2-Chlorotoluene	U		0.00125	0.00362	1.27	05/29/2021 05:34	WG1679467
4-Chlorotoluene	U		0.000650	0.00723	1.27	05/29/2021 05:34	WG1679467
1,2-Dibromo-3-Chloropropane	U		0.00564	0.0362	1.27	05/29/2021 05:34	WG1679467
1,2-Dibromoethane	U		0.000937	0.00362	1.27	05/29/2021 05:34	WG1679467
Dibromomethane	U		0.00109	0.00723	1.27	05/29/2021 05:34	WG1679467
1,2-Dichlorobenzene	U		0.000615	0.00723	1.27	05/29/2021 05:34	WG1679467
1,3-Dichlorobenzene	U		0.000868	0.00723	1.27	05/29/2021 05:34	WG1679467
1,4-Dichlorobenzene	U		0.00101	0.00723	1.27	05/29/2021 05:34	WG1679467
Dichlorodifluoromethane	U		0.00232	0.00362	1.27	05/29/2021 05:34	WG1679467
1,1-Dichloroethane	U		0.000711	0.00362	1.27	05/29/2021 05:34	WG1679467
1,2-Dichloroethane	U		0.000939	0.00362	1.27	05/29/2021 05:34	WG1679467
1,1-Dichloroethene	U		0.000877	0.00362	1.27	05/29/2021 05:34	WG1679467
cis-1,2-Dichloroethene	0.122		0.00106	0.00362	1.27	05/29/2021 05:34	WG1679467
trans-1,2-Dichloroethene	U		0.00150	0.00723	1.27	05/29/2021 05:34	WG1679467
1,2-Dichloropropane	U		0.00205	0.00723	1.27	05/29/2021 05:34	WG1679467
1,1-Dichloropropene	U		0.00117	0.00362	1.27	05/29/2021 05:34	WG1679467
1,3-Dichloropropane	U		0.000724	0.00723	1.27	05/29/2021 05:34	WG1679467
cis-1,3-Dichloropropene	U		0.00109	0.00362	1.27	05/29/2021 05:34	WG1679467
trans-1,3-Dichloropropene	U		0.00165	0.00723	1.27	05/29/2021 05:34	WG1679467
trans-1,4-Dichloro-2-butene	U	J3	0.00269	0.00723	1.27	05/29/2021 05:34	WG1679467
2,2-Dichloropropane	U		0.00199	0.00362	1.27	05/29/2021 05:34	WG1679467
Di-isopropyl ether	U		0.000593	0.00145	1.27	05/29/2021 05:34	WG1679467
Ethylbenzene	U		0.00107	0.00362	1.27	05/29/2021 05:34	WG1679467
Hexachloro-1,3-butadiene	U		0.00868	0.0362	1.27	05/29/2021 05:34	WG1679467
2-Hexanone	U		0.00486	0.0362	1.27	05/29/2021 05:34	WG1679467
n-Hexane	U		0.00327	0.00723	1.27	05/29/2021 05:34	WG1679467
Iodomethane	U		0.00336	0.0181	1.27	05/29/2021 05:34	WG1679467
Isopropylbenzene	U		0.000615	0.00362	1.27	05/29/2021 05:34	WG1679467
p-Isopropyltoluene	U		0.00369	0.00723	1.27	05/29/2021 05:34	WG1679467
2-Butanone (MEK)	U		0.0918	0.145	1.27	05/29/2021 05:34	WG1679467
Methylene Chloride	U		0.00960	0.0362	1.27	05/29/2021 05:34	WG1679467
4-Methyl-2-pentanone (MIBK)	U		0.00330	0.0362	1.27	05/29/2021 05:34	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000507	0.00145	1.27	05/29/2021 05:34	WG1679467
Naphthalene	U		0.00706	0.0181	1.27	05/29/2021 05:34	WG1679467
n-Propylbenzene	U		0.00138	0.00723	1.27	05/29/2021 05:34	WG1679467
Styrene	U		0.000331	0.0181	1.27	05/29/2021 05:34	WG1679467
1,1,1,2-Tetrachloroethane	U		0.00137	0.00362	1.27	05/29/2021 05:34	WG1679467
1,1,2,2-Tetrachloroethane	U		0.00101	0.00362	1.27	05/29/2021 05:34	WG1679467
1,1,2-Trichlorotrifluoroethane	U		0.00109	0.00362	1.27	05/29/2021 05:34	WG1679467
Tetrachloroethene	0.00622		0.00130	0.00362	1.27	05/29/2021 05:34	WG1679467
Toluene	U		0.00188	0.00723	1.27	05/29/2021 05:34	WG1679467
1,2,3-Trichlorobenzene	U	C4	0.0106	0.0181	1.27	05/29/2021 05:34	WG1679467
1,2,4-Trichlorobenzene	U	C4	0.00637	0.0181	1.27	05/29/2021 05:34	WG1679467
1,1,1-Trichloroethane	U		0.00133	0.00362	1.27	05/29/2021 05:34	WG1679467
1,1,2-Trichloroethane	U		0.000863	0.00362	1.27	05/29/2021 05:34	WG1679467
Trichloroethene	0.00105	J	0.000845	0.00145	1.27	05/29/2021 05:34	WG1679467
Trichlorofluoromethane	U		0.00120	0.00362	1.27	05/29/2021 05:34	WG1679467
1,2,3-Trichloropropane	U	J3	0.00235	0.0181	1.27	05/29/2021 05:34	WG1679467
1,2,4-Trimethylbenzene	U		0.00229	0.00723	1.27	05/29/2021 05:34	WG1679467
1,2,3-Trimethylbenzene	U		0.00229	0.00723	1.27	05/29/2021 05:34	WG1679467
1,3,5-Trimethylbenzene	U		0.00289	0.00723	1.27	05/29/2021 05:34	WG1679467
Vinyl acetate	U		0.00368	0.0181	1.27	05/29/2021 05:34	WG1679467
Vinyl chloride	0.136		0.00167	0.00362	1.27	05/29/2021 05:34	WG1679467
Xylenes, Total	U		0.00128	0.00941	1.27	05/29/2021 05:34	WG1679467
(S) Toluene-d8	*106*			*75.0-131*		*05/29/2021 05:34*	WG1679467
(S) 4-Bromofluorobenzene	*97.3*			*67.0-138*		*05/29/2021 05:34*	WG1679467
(S) 1,2-Dichloroethane-d4	*96.5*			*70.0-130*		*05/29/2021 05:34*	WG1679467

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.0		1	05/28/2021 17:16	WG1678716

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0471	0.0645	1	05/29/2021 05:53	WG1679467
Acrylonitrile	U		0.00466	0.0161	1	05/29/2021 05:53	WG1679467
Benzene	0.0786		0.000603	0.00129	1	05/29/2021 05:53	WG1679467
Bromobenzene	U		0.00116	0.0161	1	05/29/2021 05:53	WG1679467
Bromodichloromethane	U		0.000936	0.00323	1	05/29/2021 05:53	WG1679467
Bromochloromethane	U		0.000728	0.00645	1	05/29/2021 05:53	WG1679467
Bromoform	U		0.00151	0.0323	1	05/29/2021 05:53	WG1679467
Bromomethane	U		0.00254	0.0161	1	05/29/2021 05:53	WG1679467
n-Butylbenzene	0.185		0.00678	0.0161	1	05/29/2021 05:53	WG1679467
sec-Butylbenzene	0.0648		0.00372	0.0161	1	05/29/2021 05:53	WG1679467
tert-Butylbenzene	U		0.00252	0.00645	1	05/29/2021 05:53	WG1679467
Carbon disulfide	0.00210	C3 J	0.000903	0.0161	1	05/29/2021 05:53	WG1679467
Carbon tetrachloride	U		0.00116	0.00645	1	05/29/2021 05:53	WG1679467
Chlorobenzene	U		0.000271	0.00323	1	05/29/2021 05:53	WG1679467
Chlorodibromomethane	U		0.000790	0.00323	1	05/29/2021 05:53	WG1679467
Chloroethane	U		0.00219	0.00645	1	05/29/2021 05:53	WG1679467
Chloroform	U		0.00133	0.00323	1	05/29/2021 05:53	WG1679467
Chloromethane	U		0.00561	0.0161	1	05/29/2021 05:53	WG1679467
2-Chlorotoluene	U		0.00112	0.00323	1	05/29/2021 05:53	WG1679467
4-Chlorotoluene	U		0.000581	0.00645	1	05/29/2021 05:53	WG1679467
1,2-Dibromo-3-Chloropropane	U		0.00503	0.0323	1	05/29/2021 05:53	WG1679467
1,2-Dibromoethane	U		0.000836	0.00323	1	05/29/2021 05:53	WG1679467
Dibromomethane	U		0.000968	0.00645	1	05/29/2021 05:53	WG1679467
1,2-Dichlorobenzene	U		0.000548	0.00645	1	05/29/2021 05:53	WG1679467
1,3-Dichlorobenzene	U		0.000774	0.00645	1	05/29/2021 05:53	WG1679467
1,4-Dichlorobenzene	U		0.000903	0.00645	1	05/29/2021 05:53	WG1679467
Dichlorodifluoromethane	U		0.00208	0.00323	1	05/29/2021 05:53	WG1679467
1,1-Dichloroethane	U		0.000634	0.00323	1	05/29/2021 05:53	WG1679467
1,2-Dichloroethane	U		0.000838	0.00323	1	05/29/2021 05:53	WG1679467
1,1-Dichloroethene	U		0.000782	0.00323	1	05/29/2021 05:53	WG1679467
cis-1,2-Dichloroethene	U		0.000947	0.00323	1	05/29/2021 05:53	WG1679467
trans-1,2-Dichloroethene	U		0.00134	0.00645	1	05/29/2021 05:53	WG1679467
1,2-Dichloropropane	U		0.00183	0.00645	1	05/29/2021 05:53	WG1679467
1,1-Dichloropropene	U		0.00104	0.00323	1	05/29/2021 05:53	WG1679467
1,3-Dichloropropane	U		0.000647	0.00645	1	05/29/2021 05:53	WG1679467
cis-1,3-Dichloropropene	U		0.000977	0.00323	1	05/29/2021 05:53	WG1679467
trans-1,3-Dichloropropene	U		0.00147	0.00645	1	05/29/2021 05:53	WG1679467
trans-1,4-Dichloro-2-butene	U	J3	0.00240	0.00645	1	05/29/2021 05:53	WG1679467
2,2-Dichloropropane	U		0.00178	0.00323	1	05/29/2021 05:53	WG1679467
Di-isopropyl ether	U		0.000529	0.00129	1	05/29/2021 05:53	WG1679467
Ethylbenzene	0.920		0.000951	0.00323	1	05/29/2021 05:53	WG1679467
Hexachloro-1,3-butadiene	U		0.00774	0.0323	1	05/29/2021 05:53	WG1679467
2-Hexanone	U		0.00434	0.0323	1	05/29/2021 05:53	WG1679467
n-Hexane	2.77		0.0234	0.0516	8	06/02/2021 17:39	WG1681489
Iodomethane	U		0.00299	0.0161	1	05/29/2021 05:53	WG1679467
Isopropylbenzene	0.199		0.000548	0.00323	1	05/29/2021 05:53	WG1679467
p-Isopropyltoluene	0.119		0.00329	0.00645	1	05/29/2021 05:53	WG1679467
2-Butanone (MEK)	U		0.0819	0.129	1	05/29/2021 05:53	WG1679467
Methylene Chloride	U		0.00857	0.0323	1	05/29/2021 05:53	WG1679467
4-Methyl-2-pentanone (MIBK)	U		0.00294	0.0323	1	05/29/2021 05:53	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000452	0.00129	1	05/29/2021 05:53	WG1679467
Naphthalene	0.408		0.00630	0.0161	1	05/29/2021 05:53	WG1679467
n-Propylbenzene	0.346		0.00123	0.00645	1	05/29/2021 05:53	WG1679467
Styrene	U		0.000296	0.0161	1	05/29/2021 05:53	WG1679467
1,1,1,2-Tetrachloroethane	U		0.00122	0.00323	1	05/29/2021 05:53	WG1679467
1,1,2,2-Tetrachloroethane	U		0.000897	0.00323	1	05/29/2021 05:53	WG1679467
1,1,2-Trichlorotrifluoroethane	U		0.000973	0.00323	1	05/29/2021 05:53	WG1679467
Tetrachloroethene	U		0.00116	0.00323	1	05/29/2021 05:53	WG1679467
Toluene	0.852		0.00168	0.00645	1	05/29/2021 05:53	WG1679467
1,2,3-Trichlorobenzene	U	C4	0.00946	0.0161	1	05/29/2021 05:53	WG1679467
1,2,4-Trichlorobenzene	U	C4	0.00568	0.0161	1	05/29/2021 05:53	WG1679467
1,1,1-Trichloroethane	U		0.00119	0.00323	1	05/29/2021 05:53	WG1679467
1,1,2-Trichloroethane	U		0.000770	0.00323	1	05/29/2021 05:53	WG1679467
Trichloroethene	U		0.000754	0.00129	1	05/29/2021 05:53	WG1679467
Trichlorofluoromethane	U		0.00107	0.00323	1	05/29/2021 05:53	WG1679467
1,2,3-Trichloropropane	U	J3	0.00209	0.0161	1	05/29/2021 05:53	WG1679467
1,2,4-Trimethylbenzene	2.19		0.0163	0.0516	8	06/02/2021 17:39	WG1681489
1,2,3-Trimethylbenzene	1.05		0.00204	0.00645	1	05/29/2021 05:53	WG1679467
1,3,5-Trimethylbenzene	0.746		0.00258	0.00645	1	05/29/2021 05:53	WG1679467
Vinyl acetate	U		0.00328	0.0161	1	05/29/2021 05:53	WG1679467
Vinyl chloride	U		0.00150	0.00323	1	05/29/2021 05:53	WG1679467
Xylenes, Total	4.90		0.00114	0.00839	1	05/29/2021 05:53	WG1679467
(S) Toluene-d8	*111*			*75.0-131*		*05/29/2021 05:53*	WG1679467
(S) Toluene-d8	*98.6*			*75.0-131*		*06/02/2021 17:39*	WG1681489
(S) 4-Bromofluorobenzene	*134*			*67.0-138*		*05/29/2021 05:53*	WG1679467
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*06/02/2021 17:39*	WG1681489
(S) 1,2-Dichloroethane-d4	*90.6*			*70.0-130*		*05/29/2021 05:53*	WG1679467
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*06/02/2021 17:39*	WG1681489

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.7		1	05/28/2021 17:16	WG1678716

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0431	0.0590	1	05/29/2021 06:12	WG1679467
Acrylonitrile	U		0.00426	0.0148	1	05/29/2021 06:12	WG1679467
Benzene	U		0.000551	0.00118	1	05/29/2021 06:12	WG1679467
Bromobenzene	U		0.00106	0.0148	1	05/29/2021 06:12	WG1679467
Bromodichloromethane	U		0.000856	0.00295	1	05/29/2021 06:12	WG1679467
Bromochloromethane	U		0.000666	0.00590	1	05/29/2021 06:12	WG1679467
Bromoform	U		0.00138	0.0295	1	05/29/2021 06:12	WG1679467
Bromomethane	U		0.00233	0.0148	1	05/29/2021 06:12	WG1679467
n-Butylbenzene	U		0.00620	0.0148	1	05/29/2021 06:12	WG1679467
sec-Butylbenzene	U		0.00340	0.0148	1	05/29/2021 06:12	WG1679467
tert-Butylbenzene	U		0.00230	0.00590	1	05/29/2021 06:12	WG1679467
Carbon disulfide	U	C3	0.000826	0.0148	1	05/29/2021 06:12	WG1679467
Carbon tetrachloride	U		0.00106	0.00590	1	05/29/2021 06:12	WG1679467
Chlorobenzene	U		0.000248	0.00295	1	05/29/2021 06:12	WG1679467
Chlorodibromomethane	U		0.000722	0.00295	1	05/29/2021 06:12	WG1679467
Chloroethane	U		0.00201	0.00590	1	05/29/2021 06:12	WG1679467
Chloroform	U		0.00122	0.00295	1	05/29/2021 06:12	WG1679467
Chloromethane	U		0.00513	0.0148	1	05/29/2021 06:12	WG1679467
2-Chlorotoluene	U		0.00102	0.00295	1	05/29/2021 06:12	WG1679467
4-Chlorotoluene	U		0.000531	0.00590	1	05/29/2021 06:12	WG1679467
1,2-Dibromo-3-Chloropropane	U		0.00460	0.0295	1	05/29/2021 06:12	WG1679467
1,2-Dibromoethane	U		0.000765	0.00295	1	05/29/2021 06:12	WG1679467
Dibromomethane	U		0.000885	0.00590	1	05/29/2021 06:12	WG1679467
1,2-Dichlorobenzene	U		0.000502	0.00590	1	05/29/2021 06:12	WG1679467
1,3-Dichlorobenzene	U		0.000708	0.00590	1	05/29/2021 06:12	WG1679467
1,4-Dichlorobenzene	U		0.000826	0.00590	1	05/29/2021 06:12	WG1679467
Dichlorodifluoromethane	U		0.00190	0.00295	1	05/29/2021 06:12	WG1679467
1,1-Dichloroethane	U		0.000580	0.00295	1	05/29/2021 06:12	WG1679467
1,2-Dichloroethane	U		0.000766	0.00295	1	05/29/2021 06:12	WG1679467
1,1-Dichloroethene	U		0.000715	0.00295	1	05/29/2021 06:12	WG1679467
cis-1,2-Dichloroethene	U		0.000866	0.00295	1	05/29/2021 06:12	WG1679467
trans-1,2-Dichloroethene	U		0.00123	0.00590	1	05/29/2021 06:12	WG1679467
1,2-Dichloropropane	U		0.00168	0.00590	1	05/29/2021 06:12	WG1679467
1,1-Dichloropropene	U		0.000955	0.00295	1	05/29/2021 06:12	WG1679467
1,3-Dichloropropane	U		0.000591	0.00590	1	05/29/2021 06:12	WG1679467
cis-1,3-Dichloropropene	U		0.000894	0.00295	1	05/29/2021 06:12	WG1679467
trans-1,3-Dichloropropene	U		0.00135	0.00590	1	05/29/2021 06:12	WG1679467
trans-1,4-Dichloro-2-butene	U	J3	0.00220	0.00590	1	05/29/2021 06:12	WG1679467
2,2-Dichloropropane	U		0.00163	0.00295	1	05/29/2021 06:12	WG1679467
Di-isopropyl ether	U		0.000484	0.00118	1	05/29/2021 06:12	WG1679467
Ethylbenzene	0.00117	J	0.000870	0.00295	1	05/29/2021 06:12	WG1679467
Hexachloro-1,3-butadiene	U		0.00708	0.0295	1	05/29/2021 06:12	WG1679467
2-Hexanone	U		0.00397	0.0295	1	05/29/2021 06:12	WG1679467
n-Hexane	0.0162		0.00267	0.00590	1	06/02/2021 17:58	WG1681489
Iodomethane	U		0.00274	0.0148	1	05/29/2021 06:12	WG1679467
Isopropylbenzene	0.00104	J	0.000502	0.00295	1	05/29/2021 06:12	WG1679467
p-Isopropyltoluene	0.00336	J	0.00301	0.00590	1	05/29/2021 06:12	WG1679467
2-Butanone (MEK)	U		0.0750	0.118	1	05/29/2021 06:12	WG1679467
Methylene Chloride	U		0.00784	0.0295	1	05/29/2021 06:12	WG1679467
4-Methyl-2-pentanone (MIBK)	U		0.00269	0.0295	1	05/29/2021 06:12	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000413	0.00118	1	05/29/2021 06:12	WG1679467
Naphthalene	0.0229		0.00576	0.0148	1	05/29/2021 06:12	WG1679467
n-Propylbenzene	0.00392	J	0.00112	0.00590	1	05/29/2021 06:12	WG1679467
Styrene	U		0.000270	0.0148	1	05/29/2021 06:12	WG1679467
1,1,1,2-Tetrachloroethane	U		0.00112	0.00295	1	05/29/2021 06:12	WG1679467
1,1,2,2-Tetrachloroethane	U		0.000820	0.00295	1	05/29/2021 06:12	WG1679467
1,1,2-Trichlorotrifluoroethane	U		0.000890	0.00295	1	05/29/2021 06:12	WG1679467
Tetrachloroethene	U		0.00106	0.00295	1	05/29/2021 06:12	WG1679467
Toluene	U		0.00153	0.00590	1	05/29/2021 06:12	WG1679467
1,2,3-Trichlorobenzene	U	C4	0.00865	0.0148	1	05/29/2021 06:12	WG1679467
1,2,4-Trichlorobenzene	U	C4	0.00519	0.0148	1	05/29/2021 06:12	WG1679467
1,1,1-Trichloroethane	U		0.00109	0.00295	1	05/29/2021 06:12	WG1679467
1,1,2-Trichloroethane	U		0.000705	0.00295	1	05/29/2021 06:12	WG1679467
Trichloroethene	U		0.000689	0.00118	1	05/29/2021 06:12	WG1679467
Trichlorofluoromethane	U		0.000976	0.00295	1	05/29/2021 06:12	WG1679467
1,2,3-Trichloropropane	U	J3	0.00191	0.0148	1	05/29/2021 06:12	WG1679467
1,2,4-Trimethylbenzene	0.0144		0.00187	0.00590	1	06/02/2021 17:58	WG1681489
1,2,3-Trimethylbenzene	0.0119		0.00187	0.00590	1	05/29/2021 06:12	WG1679467
1,3,5-Trimethylbenzene	0.00916		0.00236	0.00590	1	05/29/2021 06:12	WG1679467
Vinyl acetate	U		0.00300	0.0148	1	05/29/2021 06:12	WG1679467
Vinyl chloride	U		0.00137	0.00295	1	05/29/2021 06:12	WG1679467
Xylenes, Total	0.00682	J	0.00104	0.00767	1	05/29/2021 06:12	WG1679467
(S) Toluene-d8	*106*			*75.0-131*		*05/29/2021 06:12*	WG1679467
(S) Toluene-d8	*99.6*			*75.0-131*		*06/02/2021 17:58*	WG1681489
(S) 4-Bromofluorobenzene	*99.5*			*67.0-138*		*05/29/2021 06:12*	WG1679467
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*06/02/2021 17:58*	WG1681489
(S) 1,2-Dichloroethane-d4	*89.3*			*70.0-130*		*05/29/2021 06:12*	WG1679467
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*06/02/2021 17:58*	WG1681489

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.8		1	05/28/2021 17:16	WG1678716

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0427	0.0585	1	05/29/2021 06:31	WG1679467
Acrylonitrile	U		0.00423	0.0146	1	05/29/2021 06:31	WG1679467
Benzene	U		0.000547	0.00117	1	05/29/2021 06:31	WG1679467
Bromobenzene	U		0.00105	0.0146	1	05/29/2021 06:31	WG1679467
Bromodichloromethane	U		0.000849	0.00293	1	05/29/2021 06:31	WG1679467
Bromochloromethane	U		0.000660	0.00585	1	05/29/2021 06:31	WG1679467
Bromoform	U		0.00137	0.0293	1	05/29/2021 06:31	WG1679467
Bromomethane	U		0.00231	0.0146	1	05/29/2021 06:31	WG1679467
n-Butylbenzene	U		0.00615	0.0146	1	05/29/2021 06:31	WG1679467
sec-Butylbenzene	U		0.00337	0.0146	1	05/29/2021 06:31	WG1679467
tert-Butylbenzene	U		0.00228	0.00585	1	05/29/2021 06:31	WG1679467
Carbon disulfide	U	C3	0.000820	0.0146	1	05/29/2021 06:31	WG1679467
Carbon tetrachloride	U		0.00105	0.00585	1	05/29/2021 06:31	WG1679467
Chlorobenzene	U		0.000246	0.00293	1	05/29/2021 06:31	WG1679467
Chlorodibromomethane	U		0.000716	0.00293	1	05/29/2021 06:31	WG1679467
Chloroethane	U		0.00199	0.00585	1	05/29/2021 06:31	WG1679467
Chloroform	U		0.00121	0.00293	1	05/29/2021 06:31	WG1679467
Chloromethane	U		0.00509	0.0146	1	05/29/2021 06:31	WG1679467
2-Chlorotoluene	U		0.00101	0.00293	1	05/29/2021 06:31	WG1679467
4-Chlorotoluene	U		0.000527	0.00585	1	05/29/2021 06:31	WG1679467
1,2-Dibromo-3-Chloropropane	U		0.00457	0.0293	1	05/29/2021 06:31	WG1679467
1,2-Dibromoethane	U		0.000759	0.00293	1	05/29/2021 06:31	WG1679467
Dibromomethane	U		0.000878	0.00585	1	05/29/2021 06:31	WG1679467
1,2-Dichlorobenzene	U		0.000498	0.00585	1	05/29/2021 06:31	WG1679467
1,3-Dichlorobenzene	U		0.000702	0.00585	1	05/29/2021 06:31	WG1679467
1,4-Dichlorobenzene	U		0.000820	0.00585	1	05/29/2021 06:31	WG1679467
Dichlorodifluoromethane	U		0.00188	0.00293	1	05/29/2021 06:31	WG1679467
1,1-Dichloroethane	U		0.000575	0.00293	1	05/29/2021 06:31	WG1679467
1,2-Dichloroethane	U		0.000760	0.00293	1	05/29/2021 06:31	WG1679467
1,1-Dichloroethene	U		0.000709	0.00293	1	05/29/2021 06:31	WG1679467
cis-1,2-Dichloroethene	U		0.000859	0.00293	1	05/29/2021 06:31	WG1679467
trans-1,2-Dichloroethene	U		0.00122	0.00585	1	05/29/2021 06:31	WG1679467
1,2-Dichloropropane	U		0.00166	0.00585	1	05/29/2021 06:31	WG1679467
1,1-Dichloropropene	U		0.000947	0.00293	1	05/29/2021 06:31	WG1679467
1,3-Dichloropropane	U		0.000587	0.00585	1	05/29/2021 06:31	WG1679467
cis-1,3-Dichloropropene	U		0.000886	0.00293	1	05/29/2021 06:31	WG1679467
trans-1,3-Dichloropropene	U		0.00133	0.00585	1	05/29/2021 06:31	WG1679467
trans-1,4-Dichloro-2-butene	U	J3	0.00218	0.00585	1	05/29/2021 06:31	WG1679467
2,2-Dichloropropane	U		0.00162	0.00293	1	05/29/2021 06:31	WG1679467
Di-isopropyl ether	U		0.000480	0.00117	1	05/29/2021 06:31	WG1679467
Ethylbenzene	U		0.000863	0.00293	1	05/29/2021 06:31	WG1679467
Hexachloro-1,3-butadiene	U		0.00702	0.0293	1	05/29/2021 06:31	WG1679467
2-Hexanone	U		0.00393	0.0293	1	05/29/2021 06:31	WG1679467
n-Hexane	U		0.00265	0.00585	1	05/29/2021 06:31	WG1679467
Iodomethane	U		0.00272	0.0146	1	05/29/2021 06:31	WG1679467
Isopropylbenzene	U		0.000498	0.00293	1	05/29/2021 06:31	WG1679467
p-Isopropyltoluene	U		0.00299	0.00585	1	05/29/2021 06:31	WG1679467
2-Butanone (MEK)	U		0.0743	0.117	1	05/29/2021 06:31	WG1679467
Methylene Chloride	U		0.00777	0.0293	1	05/29/2021 06:31	WG1679467
4-Methyl-2-pentanone (MIBK)	U		0.00267	0.0293	1	05/29/2021 06:31	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000410	0.00117	1	05/29/2021 06:31	WG1679467
Naphthalene	U		0.00571	0.0146	1	05/29/2021 06:31	WG1679467
n-Propylbenzene	U		0.00111	0.00585	1	05/29/2021 06:31	WG1679467
Styrene	U		0.000268	0.0146	1	05/29/2021 06:31	WG1679467
1,1,1,2-Tetrachloroethane	U		0.00111	0.00293	1	05/29/2021 06:31	WG1679467
1,1,2,2-Tetrachloroethane	U		0.000814	0.00293	1	05/29/2021 06:31	WG1679467
1,1,2-Trichlorotrifluoroethane	U		0.000883	0.00293	1	05/29/2021 06:31	WG1679467
Tetrachloroethene	U		0.00105	0.00293	1	05/29/2021 06:31	WG1679467
Toluene	U		0.00152	0.00585	1	05/29/2021 06:31	WG1679467
1,2,3-Trichlorobenzene	U	C4	0.00858	0.0146	1	05/29/2021 06:31	WG1679467
1,2,4-Trichlorobenzene	U	C4	0.00515	0.0146	1	05/29/2021 06:31	WG1679467
1,1,1-Trichloroethane	U		0.00108	0.00293	1	05/29/2021 06:31	WG1679467
1,1,2-Trichloroethane	U		0.000699	0.00293	1	05/29/2021 06:31	WG1679467
Trichloroethene	U		0.000684	0.00117	1	05/29/2021 06:31	WG1679467
Trichlorofluoromethane	U		0.000968	0.00293	1	05/29/2021 06:31	WG1679467
1,2,3-Trichloropropane	U	J3	0.00190	0.0146	1	05/29/2021 06:31	WG1679467
1,2,4-Trimethylbenzene	0.00514	J	0.00185	0.00585	1	06/02/2021 18:17	WG1681489
1,2,3-Trimethylbenzene	U		0.00185	0.00585	1	05/29/2021 06:31	WG1679467
1,3,5-Trimethylbenzene	U		0.00234	0.00585	1	05/29/2021 06:31	WG1679467
Vinyl acetate	U		0.00297	0.0146	1	05/29/2021 06:31	WG1679467
Vinyl chloride	U		0.00136	0.00293	1	05/29/2021 06:31	WG1679467
Xylenes, Total	0.00173	J	0.00103	0.00761	1	05/29/2021 06:31	WG1679467
(S) Toluene-d8	*106*			*75.0-131*		*05/29/2021 06:31*	WG1679467
(S) Toluene-d8	*101*			*75.0-131*		*06/02/2021 18:17*	WG1681489
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*05/29/2021 06:31*	WG1679467
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*06/02/2021 18:17*	WG1681489
(S) 1,2-Dichloroethane-d4	*93.4*			*70.0-130*		*05/29/2021 06:31*	WG1679467
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*06/02/2021 18:17*	WG1681489

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.5		1	05/28/2021 17:16	WG1678716

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0448	0.0614	1	05/29/2021 06:50	WG1679467
Acrylonitrile	U		0.00443	0.0154	1	05/29/2021 06:50	WG1679467
Benzene	U		0.000574	0.00123	1	05/29/2021 06:50	WG1679467
Bromobenzene	U		0.00111	0.0154	1	05/29/2021 06:50	WG1679467
Bromodichloromethane	U		0.000891	0.00307	1	05/29/2021 06:50	WG1679467
Bromochloromethane	U		0.000693	0.00614	1	05/29/2021 06:50	WG1679467
Bromoform	U		0.00144	0.0307	1	05/29/2021 06:50	WG1679467
Bromomethane	U		0.00242	0.0154	1	05/29/2021 06:50	WG1679467
n-Butylbenzene	U		0.00645	0.0154	1	05/29/2021 06:50	WG1679467
sec-Butylbenzene	U		0.00354	0.0154	1	05/29/2021 06:50	WG1679467
tert-Butylbenzene	U		0.00240	0.00614	1	05/29/2021 06:50	WG1679467
Carbon disulfide	0.00119	C3 J	0.000860	0.0154	1	05/29/2021 06:50	WG1679467
Carbon tetrachloride	U		0.00110	0.00614	1	05/29/2021 06:50	WG1679467
Chlorobenzene	U		0.000258	0.00307	1	05/29/2021 06:50	WG1679467
Chlorodibromomethane	U		0.000752	0.00307	1	05/29/2021 06:50	WG1679467
Chloroethane	U		0.00209	0.00614	1	05/29/2021 06:50	WG1679467
Chloroform	U		0.00127	0.00307	1	05/29/2021 06:50	WG1679467
Chloromethane	U		0.00534	0.0154	1	05/29/2021 06:50	WG1679467
2-Chlorotoluene	U		0.00106	0.00307	1	05/29/2021 06:50	WG1679467
4-Chlorotoluene	U		0.000553	0.00614	1	05/29/2021 06:50	WG1679467
1,2-Dibromo-3-Chloropropane	U		0.00479	0.0307	1	05/29/2021 06:50	WG1679467
1,2-Dibromoethane	U		0.000796	0.00307	1	05/29/2021 06:50	WG1679467
Dibromomethane	U		0.000921	0.00614	1	05/29/2021 06:50	WG1679467
1,2-Dichlorobenzene	U		0.000522	0.00614	1	05/29/2021 06:50	WG1679467
1,3-Dichlorobenzene	U		0.000737	0.00614	1	05/29/2021 06:50	WG1679467
1,4-Dichlorobenzene	U		0.000860	0.00614	1	05/29/2021 06:50	WG1679467
Dichlorodifluoromethane	U		0.00198	0.00307	1	05/29/2021 06:50	WG1679467
1,1-Dichloroethane	U		0.000603	0.00307	1	05/29/2021 06:50	WG1679467
1,2-Dichloroethane	U		0.000797	0.00307	1	05/29/2021 06:50	WG1679467
1,1-Dichloroethene	U		0.000744	0.00307	1	05/29/2021 06:50	WG1679467
cis-1,2-Dichloroethene	U		0.000902	0.00307	1	05/29/2021 06:50	WG1679467
trans-1,2-Dichloroethene	U		0.00128	0.00614	1	05/29/2021 06:50	WG1679467
1,2-Dichloropropane	U		0.00174	0.00614	1	05/29/2021 06:50	WG1679467
1,1-Dichloropropene	U		0.000994	0.00307	1	05/29/2021 06:50	WG1679467
1,3-Dichloropropane	U		0.000615	0.00614	1	05/29/2021 06:50	WG1679467
cis-1,3-Dichloropropene	U		0.000930	0.00307	1	05/29/2021 06:50	WG1679467
trans-1,3-Dichloropropene	U		0.00140	0.00614	1	05/29/2021 06:50	WG1679467
trans-1,4-Dichloro-2-butene	U	J3	0.00228	0.00614	1	05/29/2021 06:50	WG1679467
2,2-Dichloropropane	U		0.00170	0.00307	1	05/29/2021 06:50	WG1679467
Di-isopropyl ether	U		0.000504	0.00123	1	05/29/2021 06:50	WG1679467
Ethylbenzene	U		0.000905	0.00307	1	05/29/2021 06:50	WG1679467
Hexachloro-1,3-butadiene	U		0.00737	0.0307	1	05/29/2021 06:50	WG1679467
2-Hexanone	U		0.00413	0.0307	1	05/29/2021 06:50	WG1679467
n-Hexane	U		0.00278	0.00614	1	05/29/2021 06:50	WG1679467
Iodomethane	U		0.00285	0.0154	1	05/29/2021 06:50	WG1679467
Isopropylbenzene	U		0.000522	0.00307	1	05/29/2021 06:50	WG1679467
p-Isopropyltoluene	U		0.00313	0.00614	1	05/29/2021 06:50	WG1679467
2-Butanone (MEK)	U		0.0780	0.123	1	05/29/2021 06:50	WG1679467
Methylene Chloride	U		0.00816	0.0307	1	05/29/2021 06:50	WG1679467
4-Methyl-2-pentanone (MIBK)	U		0.00280	0.0307	1	05/29/2021 06:50	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000430	0.00123	1	05/29/2021 06:50	WG1679467
Naphthalene	U		0.00599	0.0154	1	05/29/2021 06:50	WG1679467
n-Propylbenzene	U		0.00117	0.00614	1	05/29/2021 06:50	WG1679467
Styrene	U		0.000281	0.0154	1	05/29/2021 06:50	WG1679467
1,1,1,2-Tetrachloroethane	U		0.00116	0.00307	1	05/29/2021 06:50	WG1679467
1,1,2,2-Tetrachloroethane	U		0.000854	0.00307	1	05/29/2021 06:50	WG1679467
1,1,2-Trichlorotrifluoroethane	U		0.000926	0.00307	1	05/29/2021 06:50	WG1679467
Tetrachloroethene	U		0.00110	0.00307	1	05/29/2021 06:50	WG1679467
Toluene	0.00201	J	0.00160	0.00614	1	05/29/2021 06:50	WG1679467
1,2,3-Trichlorobenzene	U	C4	0.00900	0.0154	1	05/29/2021 06:50	WG1679467
1,2,4-Trichlorobenzene	U	C4	0.00541	0.0154	1	05/29/2021 06:50	WG1679467
1,1,1-Trichloroethane	U		0.00113	0.00307	1	05/29/2021 06:50	WG1679467
1,1,2-Trichloroethane	U		0.000733	0.00307	1	05/29/2021 06:50	WG1679467
Trichloroethene	U		0.000717	0.00123	1	05/29/2021 06:50	WG1679467
Trichlorofluoromethane	U		0.00102	0.00307	1	05/29/2021 06:50	WG1679467
1,2,3-Trichloropropane	U	J3	0.00199	0.0154	1	05/29/2021 06:50	WG1679467
1,2,4-Trimethylbenzene	U		0.00194	0.00614	1	05/29/2021 06:50	WG1679467
1,2,3-Trimethylbenzene	U		0.00194	0.00614	1	05/29/2021 06:50	WG1679467
1,3,5-Trimethylbenzene	U		0.00246	0.00614	1	05/29/2021 06:50	WG1679467
Vinyl acetate	U		0.00312	0.0154	1	05/29/2021 06:50	WG1679467
Vinyl chloride	U		0.00143	0.00307	1	05/29/2021 06:50	WG1679467
Xylenes, Total	0.00190	J	0.00108	0.00799	1	05/29/2021 06:50	WG1679467
(S) Toluene-d8	*99.0*			*75.0-131*		*05/29/2021 06:50*	WG1679467
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*05/29/2021 06:50*	WG1679467
(S) 1,2-Dichloroethane-d4	*95.7*			*70.0-130*		*05/29/2021 06:50*	WG1679467

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.7		1	05/28/2021 17:16	WG1678716

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0463	0.0634	1	05/29/2021 07:09	WG1679467
Acrylonitrile	U		0.00458	0.0159	1	05/29/2021 07:09	WG1679467
Benzene	0.000690	J	0.000592	0.00127	1	05/29/2021 07:09	WG1679467
Bromobenzene	U		0.00114	0.0159	1	05/29/2021 07:09	WG1679467
Bromodichloromethane	U		0.000919	0.00317	1	05/29/2021 07:09	WG1679467
Bromochloromethane	U		0.000715	0.00634	1	05/29/2021 07:09	WG1679467
Bromoform	U		0.00148	0.0317	1	05/29/2021 07:09	WG1679467
Bromomethane	U		0.00250	0.0159	1	05/29/2021 07:09	WG1679467
n-Butylbenzene	U		0.00666	0.0159	1	05/29/2021 07:09	WG1679467
sec-Butylbenzene	U		0.00365	0.0159	1	05/29/2021 07:09	WG1679467
tert-Butylbenzene	U		0.00247	0.00634	1	05/29/2021 07:09	WG1679467
Carbon disulfide	0.00562	C3 J	0.000888	0.0159	1	05/29/2021 07:09	WG1679467
Carbon tetrachloride	U		0.00114	0.00634	1	05/29/2021 07:09	WG1679467
Chlorobenzene	U		0.000266	0.00317	1	05/29/2021 07:09	WG1679467
Chlorodibromomethane	U		0.000776	0.00317	1	05/29/2021 07:09	WG1679467
Chloroethane	U		0.00216	0.00634	1	05/29/2021 07:09	WG1679467
Chloroform	U		0.00131	0.00317	1	05/29/2021 07:09	WG1679467
Chloromethane	U		0.00552	0.0159	1	05/29/2021 07:09	WG1679467
2-Chlorotoluene	U		0.00110	0.00317	1	05/29/2021 07:09	WG1679467
4-Chlorotoluene	U		0.000571	0.00634	1	05/29/2021 07:09	WG1679467
1,2-Dibromo-3-Chloropropane	U		0.00495	0.0317	1	05/29/2021 07:09	WG1679467
1,2-Dibromoethane	U		0.000822	0.00317	1	05/29/2021 07:09	WG1679467
Dibromomethane	U		0.000951	0.00634	1	05/29/2021 07:09	WG1679467
1,2-Dichlorobenzene	U		0.000539	0.00634	1	05/29/2021 07:09	WG1679467
1,3-Dichlorobenzene	U		0.000761	0.00634	1	05/29/2021 07:09	WG1679467
1,4-Dichlorobenzene	U		0.000888	0.00634	1	05/29/2021 07:09	WG1679467
Dichlorodifluoromethane	U		0.00204	0.00317	1	05/29/2021 07:09	WG1679467
1,1-Dichloroethane	U		0.000623	0.00317	1	05/29/2021 07:09	WG1679467
1,2-Dichloroethane	U		0.000823	0.00317	1	05/29/2021 07:09	WG1679467
1,1-Dichloroethene	U		0.000769	0.00317	1	05/29/2021 07:09	WG1679467
cis-1,2-Dichloroethene	U		0.000931	0.00317	1	05/29/2021 07:09	WG1679467
trans-1,2-Dichloroethene	U		0.00132	0.00634	1	05/29/2021 07:09	WG1679467
1,2-Dichloropropane	U		0.00180	0.00634	1	05/29/2021 07:09	WG1679467
1,1-Dichloropropene	U		0.00103	0.00317	1	05/29/2021 07:09	WG1679467
1,3-Dichloropropane	U		0.000635	0.00634	1	05/29/2021 07:09	WG1679467
cis-1,3-Dichloropropene	U		0.000960	0.00317	1	05/29/2021 07:09	WG1679467
trans-1,3-Dichloropropene	U		0.00145	0.00634	1	05/29/2021 07:09	WG1679467
trans-1,4-Dichloro-2-butene	U	J3	0.00236	0.00634	1	05/29/2021 07:09	WG1679467
2,2-Dichloropropane	U		0.00175	0.00317	1	05/29/2021 07:09	WG1679467
Di-isopropyl ether	U		0.000520	0.00127	1	05/29/2021 07:09	WG1679467
Ethylbenzene	0.00834		0.000935	0.00317	1	05/29/2021 07:09	WG1679467
Hexachloro-1,3-butadiene	U		0.00761	0.0317	1	05/29/2021 07:09	WG1679467
2-Hexanone	U		0.00426	0.0317	1	05/29/2021 07:09	WG1679467
n-Hexane	0.0214		0.00287	0.00634	1	05/29/2021 07:09	WG1679467
Iodomethane	U		0.00294	0.0159	1	05/29/2021 07:09	WG1679467
Isopropylbenzene	0.00155	J	0.000539	0.00317	1	05/29/2021 07:09	WG1679467
p-Isopropyltoluene	U		0.00323	0.00634	1	05/29/2021 07:09	WG1679467
2-Butanone (MEK)	U		0.0805	0.127	1	05/29/2021 07:09	WG1679467
Methylene Chloride	U		0.00842	0.0317	1	05/29/2021 07:09	WG1679467
4-Methyl-2-pentanone (MIBK)	U		0.00289	0.0317	1	05/29/2021 07:09	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000444	0.00127	1	05/29/2021 07:09	WG1679467
Naphthalene	0.00883	J	0.00619	0.0159	1	05/29/2021 07:09	WG1679467
n-Propylbenzene	0.00487	J	0.00120	0.00634	1	05/29/2021 07:09	WG1679467
Styrene	U		0.000290	0.0159	1	05/29/2021 07:09	WG1679467
1,1,1,2-Tetrachloroethane	U		0.00120	0.00317	1	05/29/2021 07:09	WG1679467
1,1,2,2-Tetrachloroethane	U		0.000881	0.00317	1	05/29/2021 07:09	WG1679467
1,1,2-Trichlorotrifluoroethane	U		0.000956	0.00317	1	05/29/2021 07:09	WG1679467
Tetrachloroethene	U		0.00114	0.00317	1	05/29/2021 07:09	WG1679467
Toluene	0.00992		0.00165	0.00634	1	05/29/2021 07:09	WG1679467
1,2,3-Trichlorobenzene	U	C4	0.00930	0.0159	1	05/29/2021 07:09	WG1679467
1,2,4-Trichlorobenzene	U	C4	0.00558	0.0159	1	05/29/2021 07:09	WG1679467
1,1,1-Trichloroethane	U		0.00117	0.00317	1	05/29/2021 07:09	WG1679467
1,1,2-Trichloroethane	U		0.000757	0.00317	1	05/29/2021 07:09	WG1679467
Trichloroethene	U		0.000741	0.00127	1	05/29/2021 07:09	WG1679467
Trichlorofluoromethane	U		0.00105	0.00317	1	05/29/2021 07:09	WG1679467
1,2,3-Trichloropropane	U	J3	0.00205	0.0159	1	05/29/2021 07:09	WG1679467
1,2,4-Trimethylbenzene	0.0330		0.00200	0.00634	1	05/29/2021 07:09	WG1679467
1,2,3-Trimethylbenzene	0.0145		0.00200	0.00634	1	05/29/2021 07:09	WG1679467
1,3,5-Trimethylbenzene	0.0104		0.00254	0.00634	1	05/29/2021 07:09	WG1679467
Vinyl acetate	U		0.00322	0.0159	1	05/29/2021 07:09	WG1679467
Vinyl chloride	U		0.00147	0.00317	1	05/29/2021 07:09	WG1679467
Xylenes, Total	0.0384		0.00112	0.00824	1	05/29/2021 07:09	WG1679467
(S) Toluene-d8	*106*			*75.0-131*		*05/29/2021 07:09*	WG1679467
(S) 4-Bromofluorobenzene	*98.2*			*67.0-138*		*05/29/2021 07:09*	WG1679467
(S) 1,2-Dichloroethane-d4	*91.1*			*70.0-130*		*05/29/2021 07:09*	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0365	0.0500	1	05/29/2021 07:28	WG1679467
Acrylonitrile	U		0.00361	0.0125	1	05/29/2021 07:28	WG1679467
Benzene	U		0.000467	0.00100	1	05/29/2021 07:28	WG1679467
Bromobenzene	U		0.000900	0.0125	1	05/29/2021 07:28	WG1679467
Bromodichloromethane	U		0.000725	0.00250	1	05/29/2021 07:28	WG1679467
Bromoform	U		0.00117	0.0250	1	05/29/2021 07:28	WG1679467
Bromomethane	U		0.00197	0.0125	1	05/29/2021 07:28	WG1679467
n-Butylbenzene	U		0.00525	0.0125	1	05/29/2021 07:28	WG1679467
sec-Butylbenzene	U		0.00288	0.0125	1	05/29/2021 07:28	WG1679467
tert-Butylbenzene	U		0.00195	0.00500	1	05/29/2021 07:28	WG1679467
Carbon tetrachloride	U		0.000898	0.00500	1	05/29/2021 07:28	WG1679467
Chlorobenzene	U		0.000210	0.00250	1	05/29/2021 07:28	WG1679467
Chlorodibromomethane	U		0.000612	0.00250	1	05/29/2021 07:28	WG1679467
Chloroethane	U		0.00170	0.00500	1	05/29/2021 07:28	WG1679467
Chloroform	U		0.00103	0.00250	1	05/29/2021 07:28	WG1679467
Chloromethane	U		0.00435	0.0125	1	05/29/2021 07:28	WG1679467
2-Chlorotoluene	U		0.000865	0.00250	1	05/29/2021 07:28	WG1679467
4-Chlorotoluene	U		0.000450	0.00500	1	05/29/2021 07:28	WG1679467
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250	1	05/29/2021 07:28	WG1679467
1,2-Dibromoethane	U		0.000648	0.00250	1	05/29/2021 07:28	WG1679467
Dibromomethane	U		0.000750	0.00500	1	05/29/2021 07:28	WG1679467
1,2-Dichlorobenzene	U		0.000425	0.00500	1	05/29/2021 07:28	WG1679467
1,3-Dichlorobenzene	U		0.000600	0.00500	1	05/29/2021 07:28	WG1679467
1,4-Dichlorobenzene	U		0.000700	0.00500	1	05/29/2021 07:28	WG1679467
Dichlorodifluoromethane	U		0.00161	0.00250	1	05/29/2021 07:28	WG1679467
1,1-Dichloroethane	U		0.000491	0.00250	1	05/29/2021 07:28	WG1679467
1,2-Dichloroethane	U		0.000649	0.00250	1	05/29/2021 07:28	WG1679467
1,1-Dichloroethene	U		0.000606	0.00250	1	05/29/2021 07:28	WG1679467
cis-1,2-Dichloroethene	U		0.000734	0.00250	1	05/29/2021 07:28	WG1679467
trans-1,2-Dichloroethene	U		0.00104	0.00500	1	05/29/2021 07:28	WG1679467
1,2-Dichloropropane	U		0.00142	0.00500	1	05/29/2021 07:28	WG1679467
1,1-Dichloropropene	U		0.000809	0.00250	1	05/29/2021 07:28	WG1679467
1,3-Dichloropropane	U		0.000501	0.00500	1	05/29/2021 07:28	WG1679467
cis-1,3-Dichloropropene	U		0.000757	0.00250	1	05/29/2021 07:28	WG1679467
trans-1,3-Dichloropropene	U		0.00114	0.00500	1	05/29/2021 07:28	WG1679467
2,2-Dichloropropane	U		0.00138	0.00250	1	05/29/2021 07:28	WG1679467
Di-isopropyl ether	U		0.000410	0.00100	1	05/29/2021 07:28	WG1679467
Ethylbenzene	U		0.000737	0.00250	1	05/29/2021 07:28	WG1679467
Hexachloro-1,3-butadiene	U		0.00600	0.0250	1	05/29/2021 07:28	WG1679467
Isopropylbenzene	U		0.000425	0.00250	1	05/29/2021 07:28	WG1679467
p-Isopropyltoluene	U		0.00255	0.00500	1	05/29/2021 07:28	WG1679467
2-Butanone (MEK)	U		0.0635	0.100	1	05/29/2021 07:28	WG1679467
Methylene Chloride	U		0.00664	0.0250	1	05/29/2021 07:28	WG1679467
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250	1	05/29/2021 07:28	WG1679467
Methyl tert-butyl ether	U		0.000350	0.00100	1	05/29/2021 07:28	WG1679467
Naphthalene	U		0.00488	0.0125	1	05/29/2021 07:28	WG1679467
n-Propylbenzene	U		0.000950	0.00500	1	05/29/2021 07:28	WG1679467
Styrene	U		0.000229	0.0125	1	05/29/2021 07:28	WG1679467
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250	1	05/29/2021 07:28	WG1679467
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250	1	05/29/2021 07:28	WG1679467
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250	1	05/29/2021 07:28	WG1679467
Tetrachloroethene	U		0.000896	0.00250	1	05/29/2021 07:28	WG1679467
Toluene	0.00138	J	0.00130	0.00500	1	05/29/2021 07:28	WG1679467
1,2,3-Trichlorobenzene	U	C4	0.00733	0.0125	1	05/29/2021 07:28	WG1679467
1,2,4-Trichlorobenzene	U	C4	0.00440	0.0125	1	05/29/2021 07:28	WG1679467
1,1,1-Trichloroethane	U		0.000923	0.00250	1	05/29/2021 07:28	WG1679467

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	U		0.000597	0.00250	1	05/29/2021 07:28	WG1679467
Trichloroethene	U		0.000584	0.00100	1	05/29/2021 07:28	WG1679467
Trichlorofluoromethane	U		0.000827	0.00250	1	05/29/2021 07:28	WG1679467
1,2,3-Trichloropropane	U	J3	0.00162	0.0125	1	05/29/2021 07:28	WG1679467
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	05/29/2021 07:28	WG1679467
1,2,3-Trimethylbenzene	U		0.00158	0.00500	1	05/29/2021 07:28	WG1679467
Vinyl chloride	U		0.00116	0.00250	1	05/29/2021 07:28	WG1679467
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	05/29/2021 07:28	WG1679467
Xylenes, Total	U		0.000880	0.00650	1	05/29/2021 07:28	WG1679467
(S) Toluene-d8	*106*			*75.0-131*		*05/29/2021 07:28*	WG1679467
(S) 4-Bromofluorobenzene	*98.2*			*67.0-138*		*05/29/2021 07:28*	WG1679467
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*		*05/29/2021 07:28*	WG1679467

Method Blank (MB)

(MB) R3660768-1 05/28/21 10:22

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1356967-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1356967-05 05/28/21 10:22 • (DUP) R3660768-3 05/28/21 10:22

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.6	86.6	1	0.0136		10

Laboratory Control Sample (LCS)

(LCS) R3660768-2 05/28/21 10:22

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3660805-1 05/28/21 17:16

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1356967-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1356967-06 05/28/21 17:16 • (DUP) R3660805-3 05/28/21 17:16

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.8	92.7	1	0.0278		10

Laboratory Control Sample (LCS)

(LCS) R3660805-2 05/28/21 17:16

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3662148-3 05/29/21 01:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromochloromethane	U		0.000564	0.00500
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon disulfide	U		0.000700	0.0125
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
trans-1,4-Dichloro-2-butene	U		0.00186	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100

Method Blank (MB)

(MB) R3662148-3 05/29/21 01:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
n-Hexane	U		0.00226	0.00500
2-Hexanone	U		0.00336	0.0250
Iodomethane	U		0.00232	0.0125
Isopropylbenzene	U		0.000425	0.00250
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl acetate	U		0.00254	0.0125
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3662148-1 05/28/21 23:53 • (LCSD) R3662148-2 05/29/21 00:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.724	0.742	116	119	10.0-160			2.46	31
Acrylonitrile	0.625	0.727	0.702	116	112	45.0-153			3.50	22
Benzene	0.125	0.126	0.125	101	100	70.0-123			0.797	20
Bromobenzene	0.125	0.104	0.117	83.2	93.6	73.0-121			11.8	20
Bromodichloromethane	0.125	0.127	0.126	102	101	73.0-121			0.791	20
Bromochloromethane	0.125	0.123	0.129	98.4	103	77.0-128			4.76	20
Bromoform	0.125	0.112	0.111	89.6	88.8	64.0-132			0.897	20
Bromomethane	0.125	0.103	0.102	82.4	81.6	56.0-147			0.976	20
n-Butylbenzene	0.125	0.122	0.122	97.6	97.6	68.0-135			0.000	20
sec-Butylbenzene	0.125	0.121	0.135	96.8	108	74.0-130			10.9	20
tert-Butylbenzene	0.125	0.116	0.135	92.8	108	75.0-127			15.1	20
Carbon disulfide	0.125	0.0976	0.0968	78.1	77.4	56.0-133			0.823	20
Carbon tetrachloride	0.125	0.129	0.124	103	99.2	66.0-128			3.95	20
Chlorobenzene	0.125	0.120	0.120	96.0	96.0	76.0-128			0.000	20
Chlorodibromomethane	0.125	0.117	0.120	93.6	96.0	74.0-127			2.53	20
Chloroethane	0.125	0.106	0.103	84.8	82.4	61.0-134			2.87	20
Chloroform	0.125	0.119	0.120	95.2	96.0	72.0-123			0.837	20
Chloromethane	0.125	0.108	0.103	86.4	82.4	51.0-138			4.74	20
2-Chlorotoluene	0.125	0.115	0.129	92.0	103	75.0-124			11.5	20
4-Chlorotoluene	0.125	0.116	0.130	92.8	104	75.0-124			11.4	20
1,2-Dibromo-3-Chloropropane	0.125	0.110	0.121	88.0	96.8	59.0-130			9.52	20
1,2-Dibromoethane	0.125	0.115	0.119	92.0	95.2	74.0-128			3.42	20
Dibromomethane	0.125	0.122	0.117	97.6	93.6	75.0-122			4.18	20
1,2-Dichlorobenzene	0.125	0.122	0.125	97.6	100	76.0-124			2.43	20
1,3-Dichlorobenzene	0.125	0.119	0.122	95.2	97.6	76.0-125			2.49	20
1,4-Dichlorobenzene	0.125	0.121	0.120	96.8	96.0	77.0-121			0.830	20
trans-1,4-Dichloro-2-butene	0.125	0.106	0.130	84.8	104	45.0-143		J3	20.3	20
Dichlorodifluoromethane	0.125	0.136	0.134	109	107	43.0-156			1.48	20
1,1-Dichloroethane	0.125	0.124	0.125	99.2	100	70.0-127			0.803	20
1,2-Dichloroethane	0.125	0.121	0.125	96.8	100	65.0-131			3.25	20
1,1-Dichloroethene	0.125	0.129	0.126	103	101	65.0-131			2.35	20
cis-1,2-Dichloroethene	0.125	0.121	0.122	96.8	97.6	73.0-125			0.823	20
trans-1,2-Dichloroethene	0.125	0.114	0.116	91.2	92.8	71.0-125			1.74	20
1,2-Dichloropropane	0.125	0.132	0.129	106	103	74.0-125			2.30	20
1,1-Dichloropropene	0.125	0.125	0.126	100	101	73.0-125			0.797	20
1,3-Dichloropropane	0.125	0.114	0.122	91.2	97.6	80.0-125			6.78	20
cis-1,3-Dichloropropene	0.125	0.124	0.125	99.2	100	76.0-127			0.803	20
trans-1,3-Dichloropropene	0.125	0.121	0.127	96.8	102	73.0-127			4.84	20
2,2-Dichloropropane	0.125	0.136	0.136	109	109	59.0-135			0.000	20
Di-isopropyl ether	0.125	0.135	0.137	108	110	60.0-136			1.47	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3662148-1 05/28/21 23:53 • (LCSD) R3662148-2 05/29/21 00:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.125	0.119	0.120	95.2	96.0	74.0-126			0.837	20
Hexachloro-1,3-butadiene	0.125	0.128	0.126	102	101	57.0-150			1.57	20
2-Hexanone	0.625	0.690	0.708	110	113	54.0-147			2.58	20
n-Hexane	0.125	0.116	0.112	92.8	89.6	55.0-137			3.51	20
Iodomethane	0.625	0.556	0.557	89.0	89.1	74.0-134			0.180	20
Isopropylbenzene	0.125	0.132	0.130	106	104	72.0-127			1.53	20
p-Isopropyltoluene	0.125	0.123	0.132	98.4	106	72.0-133			7.06	20
2-Butanone (MEK)	0.625	0.773	0.760	124	122	30.0-160			1.70	24
Methylene Chloride	0.125	0.115	0.113	92.0	90.4	68.0-123			1.75	20
4-Methyl-2-pentanone (MIBK)	0.625	0.644	0.680	103	109	56.0-143			5.44	20
Methyl tert-butyl ether	0.125	0.130	0.137	104	110	66.0-132			5.24	20
Naphthalene	0.125	0.104	0.112	83.2	89.6	59.0-130			7.41	20
n-Propylbenzene	0.125	0.110	0.125	88.0	100	74.0-126			12.8	20
Styrene	0.125	0.129	0.123	103	98.4	72.0-127			4.76	20
1,1,1,2-Tetrachloroethane	0.125	0.118	0.120	94.4	96.0	74.0-129			1.68	20
1,1,2,2-Tetrachloroethane	0.125	0.107	0.126	85.6	101	68.0-128			16.3	20
Tetrachloroethene	0.125	0.115	0.115	92.0	92.0	70.0-136			0.000	20
Toluene	0.125	0.117	0.121	93.6	96.8	75.0-121			3.36	20
1,1,2-Trichlorotrifluoroethane	0.125	0.121	0.116	96.8	92.8	61.0-139			4.22	20
1,2,3-Trichlorobenzene	0.125	0.108	0.106	86.4	84.8	59.0-139			1.87	20
1,2,4-Trichlorobenzene	0.125	0.135	0.116	108	92.8	62.0-137			15.1	20
1,1,1-Trichloroethane	0.125	0.124	0.121	99.2	96.8	69.0-126			2.45	20
1,1,2-Trichloroethane	0.125	0.114	0.121	91.2	96.8	78.0-123			5.96	20
Trichloroethene	0.125	0.129	0.125	103	100	76.0-126			3.15	20
Trichlorofluoromethane	0.125	0.107	0.107	85.6	85.6	61.0-142			0.000	20
1,2,3-Trichloropropane	0.125	0.112	0.137	89.6	110	67.0-129		J3	20.1	20
1,2,3-Trimethylbenzene	0.125	0.115	0.123	92.0	98.4	74.0-124			6.72	20
1,2,4-Trimethylbenzene	0.125	0.119	0.128	95.2	102	70.0-126			7.29	20
1,3,5-Trimethylbenzene	0.125	0.117	0.130	93.6	104	73.0-127			10.5	20
Vinyl acetate	0.625	0.678	0.717	108	115	43.0-159			5.59	20
Vinyl chloride	0.125	0.110	0.111	88.0	88.8	63.0-134			0.905	20
Xylenes, Total	0.375	0.379	0.342	101	91.2	72.0-127			10.3	20
(S) Toluene-d8				*94.9*	*98.0*	*75.0-131*				
(S) 4-Bromofluorobenzene				*111*	*104*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*100*	*101*	*70.0-130*				

Method Blank (MB)

(MB) R3663137-2 06/02/21 10:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
n-Hexane	U		0.00226	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
(S) Toluene-d8	*99.7*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3663137-1 06/02/21 09:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
n-Hexane	0.125	0.140	112	55.0-137	
1,2,4-Trimethylbenzene	0.125	0.102	81.6	70.0-126	
(S) Toluene-d8			*99.9*	*75.0-131*	
(S) 4-Bromofluorobenzene			*108*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*120*	*70.0-130*	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
PES Environmental, Inc.- WA

2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com;bhaldeman@pesenv.com;

Project Description:
American Linen

City/State Collected:

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413.001.02.501I

Lab Project #
PESENVSWA-ALP

Collected by (print):
Chris DeBoer

Site/Facility ID # Former American Linen Supply

P.O. #

Collected by (signature):
Chris DeBoer

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	NO3, Cl, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	V8260C 40mlAmb/MeOH10ml/Syr	V8260ULLC 40mlAmb-HCl	dry weight 4ozClr-NoPres	Remarks	Sample # (lab only)
MW-345-41	Grab	SS	41	5/20/21	1100	2							X		X		-01
MW-345-47	Grab	SS	47	5/20/21	1110	2							X		X		-02
MW-345-53	Grab	SS	53	5/20/21	1120	2							X		X		-03
MW-345-58	Grab	SS	58	5/20/21	1130	2 1							X		X		-04
MW-345-63	Grab	SS	63	5/20/21	1140	2							X		X		-05
MW-2023-47	Grab	SS	47	5/20/21	1150	2 1							X		X		-06
MW-350-41	Grab	SS	41	5/21/21	0930	2	NS 5/22/21						X		X		-07
MW-350-53	Grab	SS	53	5/21/21	0955	2							X		X		-08
MW-350-58	Grab	SS	58	5/21/21	1000	2							X		X		-09
MW-350-64.5	Grab	SS	64.5	5/21/21	1010	2							X		X		-10

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical®

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 1356967
H243

Acctnum: **PESENVSWA**
Template: **T187404**
Prelogin: **P846732**
PM: **546 - Jared Starkey**
PB: DN 5/12/21
Shipped Via: **FedEX Saver**

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7911 5804 4820

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N 5/22
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Chris DeBoer	5/21/21	1500		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 12 °C 1.2+0.1=1.2 Bottles Received: 20	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/22/21 Time: 9:30	Hold: Condition: NCF / OK 5/22

Company Name/Address:
PES Environmental, Inc.- WA

2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com;bhaldeman@pesenv.com;

Project Description:
American Linen

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413.001.02.501I

Lab Project #
PESENVSWA-ALP

Collected by (print):
Chris DeBoer

Site/Facility ID # Former American Linen Supply

P.O. #

Collected by (signature):
Chris DeBe

Immediately
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	NO3, CL, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	V8260C 40mlAmb/MeOH10ml/Syr	V8260ULLC 40mlAmb-HCl	dry weight 4ozClr-NoPres	Remarks	Sample # (lab only)
MW-350-69	Grab	SS	69	5/21/21	1020	2							X		X		-11
TB-052121	—	SS	—	—	—	1							X				-12
		SS															
		SS															
		SS															
		SS															
		SS															
		SS															
		SS															
		SS															
		SS															

Chain of Custody Page 2 of 2

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 135967

Table #

Acctnum: **PESENVSWA**
Template: **T187404**
Prelogin: **P846732**
PM: **546 - Jared Starkey**
PB: DN 5/19/21

Shipped Via: **FedEX Saver**

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Chris DeBoer	5/21/21	1500		2	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.2+0=1.2 °C Bottles Received: 20	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/22/21 Time: 9:50	Hold: / Condition: NCF / OK

ANALYTICAL REPORT

June 17, 2021

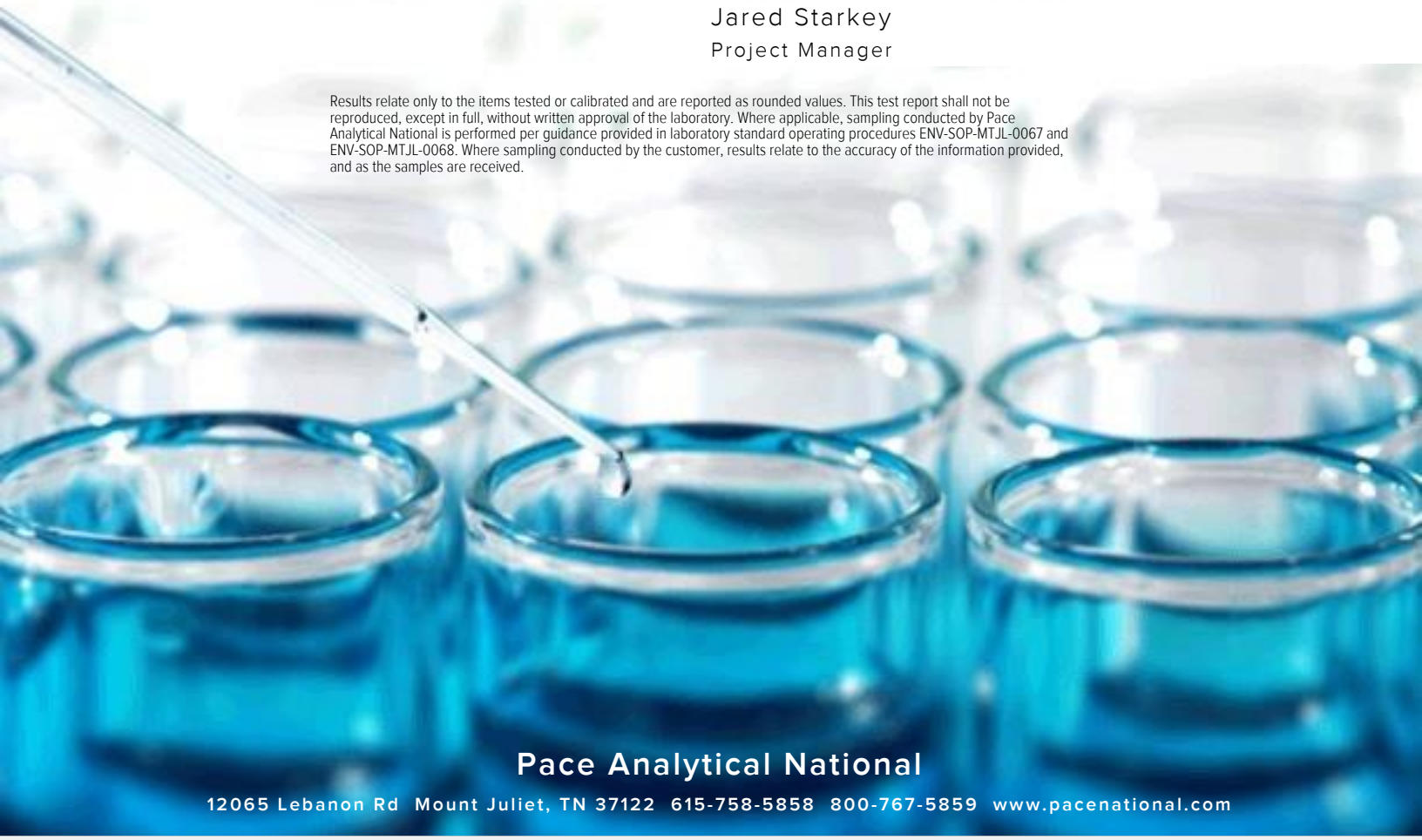
PES Environmental, Inc.- WA

Sample Delivery Group:	L1360894
Samples Received:	06/03/2021
Project Number:	1413.001.02.501l
Description:	American Linen

Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:

Jared Starkey
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-954-060221 L1360894-01 GW

Collected by	Collected date/time	Received date/time
HRC/SPK	06/02/21 07:00	06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1685880	1	06/10/21 00:05	06/10/21 00:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1682095	1	06/03/21 16:48	06/03/21 16:48	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1683866	1	06/06/21 23:24	06/06/21 23:24	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1687953	1	06/16/21 05:28	06/16/21 14:42	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1682750	1	06/07/21 15:31	06/07/21 15:31	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1685408	1	06/09/21 23:54	06/09/21 23:54	BMB	Mt. Juliet, TN

MW-346-060221 L1360894-02 GW

Collected by	Collected date/time	Received date/time
HRC/SPK	06/02/21 08:45	06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1685880	1	06/10/21 00:14	06/10/21 00:14	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1682095	1	06/03/21 17:04	06/03/21 17:04	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1683866	1	06/06/21 23:38	06/06/21 23:38	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1687953	1	06/16/21 05:28	06/16/21 14:46	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1682750	1	06/07/21 15:35	06/07/21 15:35	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1685408	1	06/10/21 00:12	06/10/21 00:12	BMB	Mt. Juliet, TN

HMW-20IA-060221 L1360894-03 GW

Collected by	Collected date/time	Received date/time
HRC/SPK	06/02/21 09:15	06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1685880	1	06/10/21 00:23	06/10/21 00:23	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1682095	1	06/03/21 17:54	06/03/21 17:54	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1683866	1	06/06/21 23:52	06/06/21 23:52	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1687953	1	06/16/21 05:28	06/16/21 14:49	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1682750	1	06/07/21 15:39	06/07/21 15:39	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1685408	1	06/10/21 00:31	06/10/21 00:31	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1688344	500	06/15/21 03:48	06/15/21 03:48	ACG	Mt. Juliet, TN

HMW-9IA-060221 L1360894-04 GW

Collected by	Collected date/time	Received date/time
HRC/SPK	06/02/21 11:25	06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1685880	1	06/10/21 00:33	06/10/21 00:33	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1682095	1	06/03/21 18:10	06/03/21 18:10	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1683866	1	06/07/21 00:05	06/07/21 00:05	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1687953	1	06/16/21 05:28	06/16/21 14:52	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1682750	1	06/07/21 15:43	06/07/21 15:43	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1685408	1	06/10/21 00:50	06/10/21 00:50	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1688344	10	06/15/21 04:07	06/15/21 04:07	ACG	Mt. Juliet, TN

HMW-9IB-060221 L1360894-05 GW

Collected by	Collected date/time	Received date/time
HRC/SPK	06/02/21 12:50	06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1685880	1	06/10/21 00:42	06/10/21 00:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1682095	1	06/03/21 18:26	06/03/21 18:26	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1683866	1	06/07/21 00:18	06/07/21 00:18	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1687953	1	06/16/21 05:28	06/16/21 14:56	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1682750	1	06/07/21 15:47	06/07/21 15:47	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1685408	100	06/10/21 04:19	06/10/21 04:19	BMB	Mt. Juliet, TN

SAMPLE SUMMARY

TB-060221 L1360894-06 GW

Collected by: HRC/SPK
Collected date/time: 06/02/21 14:00
Received date/time: 06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1685408	1	06/09/21 22:57	06/09/21 22:57	BMB	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jared Starkey
Project Manager

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	193000		8450	20000	1	06/10/2021 00:05	WG1685880

Sample Narrative:

L1360894-01 WG1685880: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	54100		379	1000	1	06/03/2021 16:48	WG1682095
Nitrate	U		48.0	100	1	06/03/2021 16:48	WG1682095
Sulfate	96200		594	5000	1	06/03/2021 16:48	WG1682095

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5730		102	1000	1	06/06/2021 23:24	WG1683866

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	6520		28.1	100	1	06/16/2021 14:42	WG1687953
Manganese	228		0.704	5.00	1	06/16/2021 14:42	WG1687953

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	141		2.91	10.0	1	06/07/2021 15:31	WG1682750
Ethane	11.2	J	4.07	13.0	1	06/07/2021 15:31	WG1682750
Ethene	8.86	J	4.26	13.0	1	06/07/2021 15:31	WG1682750

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.34		0.548	1.00	1	06/09/2021 23:54	WG1685408
Acrylonitrile	U		0.0760	0.500	1	06/09/2021 23:54	WG1685408
Benzene	0.0290	J	0.0160	0.0400	1	06/09/2021 23:54	WG1685408
Bromobenzene	U		0.0420	0.500	1	06/09/2021 23:54	WG1685408
Bromodichloromethane	U		0.0315	0.100	1	06/09/2021 23:54	WG1685408
Bromoform	U		0.239	1.00	1	06/09/2021 23:54	WG1685408
Bromomethane	U	C3	0.148	0.500	1	06/09/2021 23:54	WG1685408
n-Butylbenzene	U		0.153	0.500	1	06/09/2021 23:54	WG1685408
sec-Butylbenzene	U		0.101	0.500	1	06/09/2021 23:54	WG1685408
tert-Butylbenzene	U		0.0620	0.200	1	06/09/2021 23:54	WG1685408
Carbon tetrachloride	U		0.0432	0.200	1	06/09/2021 23:54	WG1685408
Chlorobenzene	U		0.0229	0.100	1	06/09/2021 23:54	WG1685408
Chlorodibromomethane	U		0.0180	0.100	1	06/09/2021 23:54	WG1685408
Chloroethane	U		0.0432	0.200	1	06/09/2021 23:54	WG1685408
Chloroform	U		0.0166	0.100	1	06/09/2021 23:54	WG1685408
Chloromethane	U		0.0556	0.500	1	06/09/2021 23:54	WG1685408
2-Chlorotoluene	U		0.0368	0.100	1	06/09/2021 23:54	WG1685408
4-Chlorotoluene	U		0.0452	0.200	1	06/09/2021 23:54	WG1685408
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	06/09/2021 23:54	WG1685408
1,2-Dibromoethane	U		0.0210	0.100	1	06/09/2021 23:54	WG1685408

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	06/09/2021 23:54	WG1685408
1,2-Dichlorobenzene	U		0.0580	0.200	1	06/09/2021 23:54	WG1685408
1,3-Dichlorobenzene	U		0.0680	0.200	1	06/09/2021 23:54	WG1685408
1,4-Dichlorobenzene	U		0.0788	0.200	1	06/09/2021 23:54	WG1685408
Dichlorodifluoromethane	U		0.0327	0.100	1	06/09/2021 23:54	WG1685408
1,1-Dichloroethane	U		0.0230	0.100	1	06/09/2021 23:54	WG1685408
1,2-Dichloroethane	U		0.0190	0.100	1	06/09/2021 23:54	WG1685408
1,1-Dichloroethene	0.0610	J	0.0200	0.100	1	06/09/2021 23:54	WG1685408
cis-1,2-Dichloroethene	18.3		0.0276	0.100	1	06/09/2021 23:54	WG1685408
trans-1,2-Dichloroethene	U		0.0572	0.200	1	06/09/2021 23:54	WG1685408
1,2-Dichloropropane	U		0.0508	0.200	1	06/09/2021 23:54	WG1685408
1,1-Dichloropropene	U		0.0280	0.100	1	06/09/2021 23:54	WG1685408
1,3-Dichloropropane	U		0.0700	0.200	1	06/09/2021 23:54	WG1685408
cis-1,3-Dichloropropene	U		0.0271	0.100	1	06/09/2021 23:54	WG1685408
trans-1,3-Dichloropropene	U		0.0612	0.200	1	06/09/2021 23:54	WG1685408
2,2-Dichloropropane	U		0.0317	0.100	1	06/09/2021 23:54	WG1685408
Di-isopropyl ether	U		0.0140	0.0400	1	06/09/2021 23:54	WG1685408
Ethylbenzene	U		0.0212	0.100	1	06/09/2021 23:54	WG1685408
Hexachloro-1,3-butadiene	U		0.508	1.00	1	06/09/2021 23:54	WG1685408
Isopropylbenzene	U		0.0345	0.100	1	06/09/2021 23:54	WG1685408
p-Isopropyltoluene	U		0.0932	0.200	1	06/09/2021 23:54	WG1685408
2-Butanone (MEK)	U		0.500	1.00	1	06/09/2021 23:54	WG1685408
Methylene Chloride	U		0.265	1.00	1	06/09/2021 23:54	WG1685408
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	06/09/2021 23:54	WG1685408
Methyl tert-butyl ether	U		0.0118	0.0400	1	06/09/2021 23:54	WG1685408
Naphthalene	U		0.124	0.500	1	06/09/2021 23:54	WG1685408
n-Propylbenzene	U		0.0472	0.200	1	06/09/2021 23:54	WG1685408
Styrene	U		0.109	0.500	1	06/09/2021 23:54	WG1685408
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	06/09/2021 23:54	WG1685408
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	06/09/2021 23:54	WG1685408
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	06/09/2021 23:54	WG1685408
Tetrachloroethene	25.1		0.0280	0.100	1	06/09/2021 23:54	WG1685408
Toluene	0.194	J	0.0500	0.200	1	06/09/2021 23:54	WG1685408
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	06/09/2021 23:54	WG1685408
1,2,4-Trichlorobenzene	U		0.193	0.500	1	06/09/2021 23:54	WG1685408
1,1,1-Trichloroethane	U		0.0110	0.100	1	06/09/2021 23:54	WG1685408
1,1,2-Trichloroethane	U		0.0353	0.100	1	06/09/2021 23:54	WG1685408
Trichloroethene	6.16		0.0160	0.0400	1	06/09/2021 23:54	WG1685408
Trichlorofluoromethane	U		0.0200	0.100	1	06/09/2021 23:54	WG1685408
1,2,3-Trichloropropane	U		0.204	0.500	1	06/09/2021 23:54	WG1685408
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	06/09/2021 23:54	WG1685408
1,2,3-Trimethylbenzene	U	J4	0.0460	0.200	1	06/09/2021 23:54	WG1685408
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	06/09/2021 23:54	WG1685408
Vinyl chloride	1.93		0.0273	0.100	1	06/09/2021 23:54	WG1685408
Xylenes, Total	U		0.191	0.260	1	06/09/2021 23:54	WG1685408
Ethyl Ether	U		0.0170	0.100	1	06/09/2021 23:54	WG1685408
Tetrahydrofuran	U	J3	0.0900	0.500	1	06/09/2021 23:54	WG1685408
Iodomethane	U		0.242	0.500	1	06/09/2021 23:54	WG1685408
Allyl chloride	U		0.580	1.00	1	06/09/2021 23:54	WG1685408
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	06/09/2021 23:54	WG1685408
(S) Toluene-d8	*96.3*			*75.0-131*		*06/09/2021 23:54*	WG1685408
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*06/09/2021 23:54*	WG1685408
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*		*06/09/2021 23:54*	WG1685408

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	189000		8450	20000	1	06/10/2021 00:14	WG1685880

Sample Narrative:

L1360894-02 WG1685880: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	54100		379	1000	1	06/03/2021 17:04	WG1682095
Nitrate	U		48.0	100	1	06/03/2021 17:04	WG1682095
Sulfate	96400		594	5000	1	06/03/2021 17:04	WG1682095

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5570		102	1000	1	06/06/2021 23:38	WG1683866

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	6570		28.1	100	1	06/16/2021 14:46	WG1687953
Manganese	227		0.704	5.00	1	06/16/2021 14:46	WG1687953

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	166		2.91	10.0	1	06/07/2021 15:35	WG1682750
Ethane	14.7		4.07	13.0	1	06/07/2021 15:35	WG1682750
Ethene	10.9	J	4.26	13.0	1	06/07/2021 15:35	WG1682750

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.30		0.548	1.00	1	06/10/2021 00:12	WG1685408
Acrylonitrile	U		0.0760	0.500	1	06/10/2021 00:12	WG1685408
Benzene	0.0290	J	0.0160	0.0400	1	06/10/2021 00:12	WG1685408
Bromobenzene	U		0.0420	0.500	1	06/10/2021 00:12	WG1685408
Bromodichloromethane	U		0.0315	0.100	1	06/10/2021 00:12	WG1685408
Bromoform	U		0.239	1.00	1	06/10/2021 00:12	WG1685408
Bromomethane	U	C3	0.148	0.500	1	06/10/2021 00:12	WG1685408
n-Butylbenzene	U		0.153	0.500	1	06/10/2021 00:12	WG1685408
sec-Butylbenzene	U		0.101	0.500	1	06/10/2021 00:12	WG1685408
tert-Butylbenzene	U		0.0620	0.200	1	06/10/2021 00:12	WG1685408
Carbon tetrachloride	U		0.0432	0.200	1	06/10/2021 00:12	WG1685408
Chlorobenzene	U		0.0229	0.100	1	06/10/2021 00:12	WG1685408
Chlorodibromomethane	U		0.0180	0.100	1	06/10/2021 00:12	WG1685408
Chloroethane	U		0.0432	0.200	1	06/10/2021 00:12	WG1685408
Chloroform	U		0.0166	0.100	1	06/10/2021 00:12	WG1685408
Chloromethane	U		0.0556	0.500	1	06/10/2021 00:12	WG1685408
2-Chlorotoluene	U		0.0368	0.100	1	06/10/2021 00:12	WG1685408
4-Chlorotoluene	U		0.0452	0.200	1	06/10/2021 00:12	WG1685408
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	06/10/2021 00:12	WG1685408
1,2-Dibromoethane	U		0.0210	0.100	1	06/10/2021 00:12	WG1685408

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	06/10/2021 00:12	WG1685408
1,2-Dichlorobenzene	U		0.0580	0.200	1	06/10/2021 00:12	WG1685408
1,3-Dichlorobenzene	U		0.0680	0.200	1	06/10/2021 00:12	WG1685408
1,4-Dichlorobenzene	U		0.0788	0.200	1	06/10/2021 00:12	WG1685408
Dichlorodifluoromethane	U		0.0327	0.100	1	06/10/2021 00:12	WG1685408
1,1-Dichloroethane	U		0.0230	0.100	1	06/10/2021 00:12	WG1685408
1,2-Dichloroethane	U		0.0190	0.100	1	06/10/2021 00:12	WG1685408
1,1-Dichloroethene	0.0590	J	0.0200	0.100	1	06/10/2021 00:12	WG1685408
cis-1,2-Dichloroethene	18.1		0.0276	0.100	1	06/10/2021 00:12	WG1685408
trans-1,2-Dichloroethene	U		0.0572	0.200	1	06/10/2021 00:12	WG1685408
1,2-Dichloropropane	U		0.0508	0.200	1	06/10/2021 00:12	WG1685408
1,1-Dichloropropene	U		0.0280	0.100	1	06/10/2021 00:12	WG1685408
1,3-Dichloropropane	U		0.0700	0.200	1	06/10/2021 00:12	WG1685408
cis-1,3-Dichloropropene	U		0.0271	0.100	1	06/10/2021 00:12	WG1685408
trans-1,3-Dichloropropene	U		0.0612	0.200	1	06/10/2021 00:12	WG1685408
2,2-Dichloropropane	U		0.0317	0.100	1	06/10/2021 00:12	WG1685408
Di-isopropyl ether	U		0.0140	0.0400	1	06/10/2021 00:12	WG1685408
Ethylbenzene	U		0.0212	0.100	1	06/10/2021 00:12	WG1685408
Hexachloro-1,3-butadiene	U		0.508	1.00	1	06/10/2021 00:12	WG1685408
Isopropylbenzene	U		0.0345	0.100	1	06/10/2021 00:12	WG1685408
p-Isopropyltoluene	U		0.0932	0.200	1	06/10/2021 00:12	WG1685408
2-Butanone (MEK)	U		0.500	1.00	1	06/10/2021 00:12	WG1685408
Methylene Chloride	U		0.265	1.00	1	06/10/2021 00:12	WG1685408
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	06/10/2021 00:12	WG1685408
Methyl tert-butyl ether	U		0.0118	0.0400	1	06/10/2021 00:12	WG1685408
Naphthalene	U		0.124	0.500	1	06/10/2021 00:12	WG1685408
n-Propylbenzene	U		0.0472	0.200	1	06/10/2021 00:12	WG1685408
Styrene	U		0.109	0.500	1	06/10/2021 00:12	WG1685408
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	06/10/2021 00:12	WG1685408
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	06/10/2021 00:12	WG1685408
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	06/10/2021 00:12	WG1685408
Tetrachloroethene	25.3		0.0280	0.100	1	06/10/2021 00:12	WG1685408
Toluene	0.206		0.0500	0.200	1	06/10/2021 00:12	WG1685408
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	06/10/2021 00:12	WG1685408
1,2,4-Trichlorobenzene	U		0.193	0.500	1	06/10/2021 00:12	WG1685408
1,1,1-Trichloroethane	U		0.0110	0.100	1	06/10/2021 00:12	WG1685408
1,1,2-Trichloroethane	U		0.0353	0.100	1	06/10/2021 00:12	WG1685408
Trichloroethene	6.09		0.0160	0.0400	1	06/10/2021 00:12	WG1685408
Trichlorofluoromethane	U		0.0200	0.100	1	06/10/2021 00:12	WG1685408
1,2,3-Trichloropropane	U		0.204	0.500	1	06/10/2021 00:12	WG1685408
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	06/10/2021 00:12	WG1685408
1,2,3-Trimethylbenzene	U	J4	0.0460	0.200	1	06/10/2021 00:12	WG1685408
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	06/10/2021 00:12	WG1685408
Vinyl chloride	1.90		0.0273	0.100	1	06/10/2021 00:12	WG1685408
Xylenes, Total	U		0.191	0.260	1	06/10/2021 00:12	WG1685408
Ethyl Ether	U		0.0170	0.100	1	06/10/2021 00:12	WG1685408
Tetrahydrofuran	U	J3	0.0900	0.500	1	06/10/2021 00:12	WG1685408
Iodomethane	U		0.242	0.500	1	06/10/2021 00:12	WG1685408
Allyl chloride	U		0.580	1.00	1	06/10/2021 00:12	WG1685408
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	06/10/2021 00:12	WG1685408
(S) Toluene-d8	*97.4*			*75.0-131*		*06/10/2021 00:12*	WG1685408
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*		*06/10/2021 00:12*	WG1685408
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*06/10/2021 00:12*	WG1685408

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	363000		8450	20000	1	06/10/2021 00:23	WG1685880

Sample Narrative:

L1360894-03 WG1685880: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	41400		379	1000	1	06/03/2021 17:54	WG1682095
Nitrate	115		48.0	100	1	06/03/2021 17:54	WG1682095
Sulfate	21700		594	5000	1	06/03/2021 17:54	WG1682095

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2440	B	102	1000	1	06/06/2021 23:52	WG1683866

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	867		28.1	100	1	06/16/2021 14:49	WG1687953
Manganese	905		0.704	5.00	1	06/16/2021 14:49	WG1687953

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3540		2.91	10.0	1	06/07/2021 15:39	WG1682750
Ethane	U		4.07	13.0	1	06/07/2021 15:39	WG1682750
Ethene	269		4.26	13.0	1	06/07/2021 15:39	WG1682750

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.56		0.548	1.00	1	06/10/2021 00:31	WG1685408
Acrylonitrile	U		0.0760	0.500	1	06/10/2021 00:31	WG1685408
Benzene	0.0840		0.0160	0.0400	1	06/10/2021 00:31	WG1685408
Bromobenzene	U		0.0420	0.500	1	06/10/2021 00:31	WG1685408
Bromodichloromethane	U		0.0315	0.100	1	06/10/2021 00:31	WG1685408
Bromoform	U		0.239	1.00	1	06/10/2021 00:31	WG1685408
Bromomethane	U	C3	0.148	0.500	1	06/10/2021 00:31	WG1685408
n-Butylbenzene	U		0.153	0.500	1	06/10/2021 00:31	WG1685408
sec-Butylbenzene	U		0.101	0.500	1	06/10/2021 00:31	WG1685408
tert-Butylbenzene	U		0.0620	0.200	1	06/10/2021 00:31	WG1685408
Carbon tetrachloride	U		0.0432	0.200	1	06/10/2021 00:31	WG1685408
Chlorobenzene	U		0.0229	0.100	1	06/10/2021 00:31	WG1685408
Chlorodibromomethane	U		0.0180	0.100	1	06/10/2021 00:31	WG1685408
Chloroethane	U		0.0432	0.200	1	06/10/2021 00:31	WG1685408
Chloroform	U		0.0166	0.100	1	06/10/2021 00:31	WG1685408
Chloromethane	U		0.0556	0.500	1	06/10/2021 00:31	WG1685408
2-Chlorotoluene	U		0.0368	0.100	1	06/10/2021 00:31	WG1685408
4-Chlorotoluene	U		0.0452	0.200	1	06/10/2021 00:31	WG1685408
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	06/10/2021 00:31	WG1685408
1,2-Dibromoethane	U		0.0210	0.100	1	06/10/2021 00:31	WG1685408

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	06/10/2021 00:31	WG1685408
1,2-Dichlorobenzene	U		0.0580	0.200	1	06/10/2021 00:31	WG1685408
1,3-Dichlorobenzene	U		0.0680	0.200	1	06/10/2021 00:31	WG1685408
1,4-Dichlorobenzene	U		0.0788	0.200	1	06/10/2021 00:31	WG1685408
Dichlorodifluoromethane	U		0.0327	0.100	1	06/10/2021 00:31	WG1685408
1,1-Dichloroethane	0.139		0.0230	0.100	1	06/10/2021 00:31	WG1685408
1,2-Dichloroethane	0.0270	J	0.0190	0.100	1	06/10/2021 00:31	WG1685408
1,1-Dichloroethene	10.9		0.0200	0.100	1	06/10/2021 00:31	WG1685408
cis-1,2-Dichloroethene	6400		13.8	50.0	500	06/15/2021 03:48	WG1688344
trans-1,2-Dichloroethene	17.1		0.0572	0.200	1	06/10/2021 00:31	WG1685408
1,2-Dichloropropane	U		0.0508	0.200	1	06/10/2021 00:31	WG1685408
1,1-Dichloropropene	U		0.0280	0.100	1	06/10/2021 00:31	WG1685408
1,3-Dichloropropane	U		0.0700	0.200	1	06/10/2021 00:31	WG1685408
cis-1,3-Dichloropropene	U		0.0271	0.100	1	06/10/2021 00:31	WG1685408
trans-1,3-Dichloropropene	U		0.0612	0.200	1	06/10/2021 00:31	WG1685408
2,2-Dichloropropane	U		0.0317	0.100	1	06/10/2021 00:31	WG1685408
Di-isopropyl ether	0.0580	C5	0.0140	0.0400	1	06/10/2021 00:31	WG1685408
Ethylbenzene	U		0.0212	0.100	1	06/10/2021 00:31	WG1685408
Hexachloro-1,3-butadiene	U		0.508	1.00	1	06/10/2021 00:31	WG1685408
Isopropylbenzene	U		0.0345	0.100	1	06/10/2021 00:31	WG1685408
p-Isopropyltoluene	U		0.0932	0.200	1	06/10/2021 00:31	WG1685408
2-Butanone (MEK)	U		0.500	1.00	1	06/10/2021 00:31	WG1685408
Methylene Chloride	U		0.265	1.00	1	06/10/2021 00:31	WG1685408
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	06/10/2021 00:31	WG1685408
Methyl tert-butyl ether	U		0.0118	0.0400	1	06/10/2021 00:31	WG1685408
Naphthalene	U		0.124	0.500	1	06/10/2021 00:31	WG1685408
n-Propylbenzene	U		0.0472	0.200	1	06/10/2021 00:31	WG1685408
Styrene	U		0.109	0.500	1	06/10/2021 00:31	WG1685408
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	06/10/2021 00:31	WG1685408
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	06/10/2021 00:31	WG1685408
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	06/10/2021 00:31	WG1685408
Tetrachloroethene	1.37		0.0280	0.100	1	06/10/2021 00:31	WG1685408
Toluene	0.152	J	0.0500	0.200	1	06/10/2021 00:31	WG1685408
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	06/10/2021 00:31	WG1685408
1,2,4-Trichlorobenzene	U		0.193	0.500	1	06/10/2021 00:31	WG1685408
1,1,1-Trichloroethane	U		0.0110	0.100	1	06/10/2021 00:31	WG1685408
1,1,2-Trichloroethane	U		0.0353	0.100	1	06/10/2021 00:31	WG1685408
Trichloroethene	31.9		0.0160	0.0400	1	06/10/2021 00:31	WG1685408
Trichlorofluoromethane	U		0.0200	0.100	1	06/10/2021 00:31	WG1685408
1,2,3-Trichloropropane	U		0.204	0.500	1	06/10/2021 00:31	WG1685408
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	06/10/2021 00:31	WG1685408
1,2,3-Trimethylbenzene	U	J4	0.0460	0.200	1	06/10/2021 00:31	WG1685408
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	06/10/2021 00:31	WG1685408
Vinyl chloride	5940		13.6	50.0	500	06/15/2021 03:48	WG1688344
Xylenes, Total	U		0.191	0.260	1	06/10/2021 00:31	WG1685408
Ethyl Ether	U		0.0170	0.100	1	06/10/2021 00:31	WG1685408
Tetrahydrofuran	U	J3	0.0900	0.500	1	06/10/2021 00:31	WG1685408
Iodomethane	U		0.242	0.500	1	06/10/2021 00:31	WG1685408
Allyl chloride	U		0.580	1.00	1	06/10/2021 00:31	WG1685408
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	06/10/2021 00:31	WG1685408
(S) Toluene-d8	*98.4*			*75.0-131*		*06/10/2021 00:31*	WG1685408
(S) Toluene-d8	*103*			*75.0-131*		*06/15/2021 03:48*	WG1688344
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*06/10/2021 00:31*	WG1685408
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*06/15/2021 03:48*	WG1688344
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*06/10/2021 00:31*	WG1685408
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*		*06/15/2021 03:48*	WG1688344

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	270000		8450	20000	1	06/10/2021 00:33	WG1685880

Sample Narrative:

L1360894-04 WG1685880: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	20400		379	1000	1	06/03/2021 18:10	WG1682095
Nitrate	U		48.0	100	1	06/03/2021 18:10	WG1682095
Sulfate	38500		594	5000	1	06/03/2021 18:10	WG1682095

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1250	B	102	1000	1	06/07/2021 00:05	WG1683866

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1950		28.1	100	1	06/16/2021 14:52	WG1687953
Manganese	772		0.704	5.00	1	06/16/2021 14:52	WG1687953

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	316		2.91	10.0	1	06/07/2021 15:43	WG1682750
Ethane	U		4.07	13.0	1	06/07/2021 15:43	WG1682750
Ethene	17.7		4.26	13.0	1	06/07/2021 15:43	WG1682750

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.81		0.548	1.00	1	06/10/2021 00:50	WG1685408
Acrylonitrile	U		0.0760	0.500	1	06/10/2021 00:50	WG1685408
Benzene	0.0450		0.0160	0.0400	1	06/10/2021 00:50	WG1685408
Bromobenzene	U		0.0420	0.500	1	06/10/2021 00:50	WG1685408
Bromodichloromethane	U		0.0315	0.100	1	06/10/2021 00:50	WG1685408
Bromoform	U		0.239	1.00	1	06/10/2021 00:50	WG1685408
Bromomethane	U	C3	0.148	0.500	1	06/10/2021 00:50	WG1685408
n-Butylbenzene	U		0.153	0.500	1	06/10/2021 00:50	WG1685408
sec-Butylbenzene	U		0.101	0.500	1	06/10/2021 00:50	WG1685408
tert-Butylbenzene	U		0.0620	0.200	1	06/10/2021 00:50	WG1685408
Carbon tetrachloride	U		0.0432	0.200	1	06/10/2021 00:50	WG1685408
Chlorobenzene	U		0.0229	0.100	1	06/10/2021 00:50	WG1685408
Chlorodibromomethane	U		0.0180	0.100	1	06/10/2021 00:50	WG1685408
Chloroethane	U		0.0432	0.200	1	06/10/2021 00:50	WG1685408
Chloroform	U		0.0166	0.100	1	06/10/2021 00:50	WG1685408
Chloromethane	U		0.0556	0.500	1	06/10/2021 00:50	WG1685408
2-Chlorotoluene	U		0.0368	0.100	1	06/10/2021 00:50	WG1685408
4-Chlorotoluene	U		0.0452	0.200	1	06/10/2021 00:50	WG1685408
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	06/10/2021 00:50	WG1685408
1,2-Dibromoethane	U		0.0210	0.100	1	06/10/2021 00:50	WG1685408

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	06/10/2021 00:50	WG1685408
1,2-Dichlorobenzene	U		0.0580	0.200	1	06/10/2021 00:50	WG1685408
1,3-Dichlorobenzene	U		0.0680	0.200	1	06/10/2021 00:50	WG1685408
1,4-Dichlorobenzene	U		0.0788	0.200	1	06/10/2021 00:50	WG1685408
Dichlorodifluoromethane	U		0.0327	0.100	1	06/10/2021 00:50	WG1685408
1,1-Dichloroethane	U		0.0230	0.100	1	06/10/2021 00:50	WG1685408
1,2-Dichloroethane	0.185		0.0190	0.100	1	06/10/2021 00:50	WG1685408
1,1-Dichloroethene	0.265		0.0200	0.100	1	06/10/2021 00:50	WG1685408
cis-1,2-Dichloroethene	136		0.276	1.00	10	06/15/2021 04:07	WG1688344
trans-1,2-Dichloroethene	0.197	J	0.0572	0.200	1	06/10/2021 00:50	WG1685408
1,2-Dichloropropane	U		0.0508	0.200	1	06/10/2021 00:50	WG1685408
1,1-Dichloropropene	U		0.0280	0.100	1	06/10/2021 00:50	WG1685408
1,3-Dichloropropane	U		0.0700	0.200	1	06/10/2021 00:50	WG1685408
cis-1,3-Dichloropropene	U		0.0271	0.100	1	06/10/2021 00:50	WG1685408
trans-1,3-Dichloropropene	U		0.0612	0.200	1	06/10/2021 00:50	WG1685408
2,2-Dichloropropane	U		0.0317	0.100	1	06/10/2021 00:50	WG1685408
Di-isopropyl ether	0.267	C5	0.0140	0.0400	1	06/10/2021 00:50	WG1685408
Ethylbenzene	U		0.0212	0.100	1	06/10/2021 00:50	WG1685408
Hexachloro-1,3-butadiene	U		0.508	1.00	1	06/10/2021 00:50	WG1685408
Isopropylbenzene	U		0.0345	0.100	1	06/10/2021 00:50	WG1685408
p-Isopropyltoluene	U		0.0932	0.200	1	06/10/2021 00:50	WG1685408
2-Butanone (MEK)	U		0.500	1.00	1	06/10/2021 00:50	WG1685408
Methylene Chloride	U		0.265	1.00	1	06/10/2021 00:50	WG1685408
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	06/10/2021 00:50	WG1685408
Methyl tert-butyl ether	U		0.0118	0.0400	1	06/10/2021 00:50	WG1685408
Naphthalene	U		0.124	0.500	1	06/10/2021 00:50	WG1685408
n-Propylbenzene	U		0.0472	0.200	1	06/10/2021 00:50	WG1685408
Styrene	U		0.109	0.500	1	06/10/2021 00:50	WG1685408
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	06/10/2021 00:50	WG1685408
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	06/10/2021 00:50	WG1685408
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	06/10/2021 00:50	WG1685408
Tetrachloroethene	0.243		0.0280	0.100	1	06/10/2021 00:50	WG1685408
Toluene	0.0850	J	0.0500	0.200	1	06/10/2021 00:50	WG1685408
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	06/10/2021 00:50	WG1685408
1,2,4-Trichlorobenzene	U		0.193	0.500	1	06/10/2021 00:50	WG1685408
1,1,1-Trichloroethane	U		0.0110	0.100	1	06/10/2021 00:50	WG1685408
1,1,2-Trichloroethane	U		0.0353	0.100	1	06/10/2021 00:50	WG1685408
Trichloroethene	0.916		0.0160	0.0400	1	06/10/2021 00:50	WG1685408
Trichlorofluoromethane	U		0.0200	0.100	1	06/10/2021 00:50	WG1685408
1,2,3-Trichloropropane	U		0.204	0.500	1	06/10/2021 00:50	WG1685408
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	06/10/2021 00:50	WG1685408
1,2,3-Trimethylbenzene	U	J4	0.0460	0.200	1	06/10/2021 00:50	WG1685408
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	06/10/2021 00:50	WG1685408
Vinyl chloride	196		0.273	1.00	10	06/15/2021 04:07	WG1688344
Xylenes, Total	U		0.191	0.260	1	06/10/2021 00:50	WG1685408
Ethyl Ether	U		0.0170	0.100	1	06/10/2021 00:50	WG1685408
Tetrahydrofuran	U	J3	0.0900	0.500	1	06/10/2021 00:50	WG1685408
Iodomethane	U		0.242	0.500	1	06/10/2021 00:50	WG1685408
Allyl chloride	U		0.580	1.00	1	06/10/2021 00:50	WG1685408
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	06/10/2021 00:50	WG1685408
(S) Toluene-d8	*96.7*			*75.0-131*		*06/10/2021 00:50*	WG1685408
(S) Toluene-d8	*103*			*75.0-131*		*06/15/2021 04:07*	WG1688344
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*06/10/2021 00:50*	WG1685408
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*06/15/2021 04:07*	WG1688344
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*06/10/2021 00:50*	WG1685408
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*06/15/2021 04:07*	WG1688344

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	294000		8450	20000	1	06/10/2021 00:42	WG1685880

Sample Narrative:

L1360894-05 WG1685880: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	26000		379	1000	1	06/03/2021 18:26	WG1682095
Nitrate	U		48.0	100	1	06/03/2021 18:26	WG1682095
Sulfate	32700		594	5000	1	06/03/2021 18:26	WG1682095

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1770	B	102	1000	1	06/07/2021 00:18	WG1683866

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	948		28.1	100	1	06/16/2021 14:56	WG1687953
Manganese	629		0.704	5.00	1	06/16/2021 14:56	WG1687953

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1660		2.91	10.0	1	06/07/2021 15:47	WG1682750
Ethane	U		4.07	13.0	1	06/07/2021 15:47	WG1682750
Ethene	86.9		4.26	13.0	1	06/07/2021 15:47	WG1682750

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		54.8	100	100	06/10/2021 04:19	WG1685408
Acrylonitrile	U		7.60	50.0	100	06/10/2021 04:19	WG1685408
Benzene	U		1.60	4.00	100	06/10/2021 04:19	WG1685408
Bromobenzene	U		4.20	50.0	100	06/10/2021 04:19	WG1685408
Bromodichloromethane	U		3.15	10.0	100	06/10/2021 04:19	WG1685408
Bromoform	U		23.9	100	100	06/10/2021 04:19	WG1685408
Bromomethane	U	C3	14.8	50.0	100	06/10/2021 04:19	WG1685408
n-Butylbenzene	U		15.3	50.0	100	06/10/2021 04:19	WG1685408
sec-Butylbenzene	U		10.1	50.0	100	06/10/2021 04:19	WG1685408
tert-Butylbenzene	U		6.20	20.0	100	06/10/2021 04:19	WG1685408
Carbon tetrachloride	U		4.32	20.0	100	06/10/2021 04:19	WG1685408
Chlorobenzene	U		2.29	10.0	100	06/10/2021 04:19	WG1685408
Chlorodibromomethane	U		1.80	10.0	100	06/10/2021 04:19	WG1685408
Chloroethane	U		4.32	20.0	100	06/10/2021 04:19	WG1685408
Chloroform	U		1.66	10.0	100	06/10/2021 04:19	WG1685408
Chloromethane	U		5.56	50.0	100	06/10/2021 04:19	WG1685408
2-Chlorotoluene	U		3.68	10.0	100	06/10/2021 04:19	WG1685408
4-Chlorotoluene	U		4.52	20.0	100	06/10/2021 04:19	WG1685408
1,2-Dibromo-3-Chloropropane	U		20.4	100	100	06/10/2021 04:19	WG1685408
1,2-Dibromoethane	U		2.10	10.0	100	06/10/2021 04:19	WG1685408

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		4.00	20.0	100	06/10/2021 04:19	WG1685408
1,2-Dichlorobenzene	U		5.80	20.0	100	06/10/2021 04:19	WG1685408
1,3-Dichlorobenzene	U		6.80	20.0	100	06/10/2021 04:19	WG1685408
1,4-Dichlorobenzene	U		7.88	20.0	100	06/10/2021 04:19	WG1685408
Dichlorodifluoromethane	U		3.27	10.0	100	06/10/2021 04:19	WG1685408
1,1-Dichloroethane	U		2.30	10.0	100	06/10/2021 04:19	WG1685408
1,2-Dichloroethane	2.60	J	1.90	10.0	100	06/10/2021 04:19	WG1685408
1,1-Dichloroethene	5.30	J	2.00	10.0	100	06/10/2021 04:19	WG1685408
cis-1,2-Dichloroethene	3060		2.76	10.0	100	06/10/2021 04:19	WG1685408
trans-1,2-Dichloroethene	6.30	J	5.72	20.0	100	06/10/2021 04:19	WG1685408
1,2-Dichloropropane	U		5.08	20.0	100	06/10/2021 04:19	WG1685408
1,1-Dichloropropene	U		2.80	10.0	100	06/10/2021 04:19	WG1685408
1,3-Dichloropropane	U		7.00	20.0	100	06/10/2021 04:19	WG1685408
cis-1,3-Dichloropropene	U		2.71	10.0	100	06/10/2021 04:19	WG1685408
trans-1,3-Dichloropropene	U		6.12	20.0	100	06/10/2021 04:19	WG1685408
2,2-Dichloropropane	U		3.17	10.0	100	06/10/2021 04:19	WG1685408
Di-isopropyl ether	U		1.40	4.00	100	06/10/2021 04:19	WG1685408
Ethylbenzene	U		2.12	10.0	100	06/10/2021 04:19	WG1685408
Hexachloro-1,3-butadiene	U		50.8	100	100	06/10/2021 04:19	WG1685408
Isopropylbenzene	U		3.45	10.0	100	06/10/2021 04:19	WG1685408
p-Isopropyltoluene	U		9.32	20.0	100	06/10/2021 04:19	WG1685408
2-Butanone (MEK)	U		50.0	100	100	06/10/2021 04:19	WG1685408
Methylene Chloride	U		26.5	100	100	06/10/2021 04:19	WG1685408
4-Methyl-2-pentanone (MIBK)	U		40.0	100	100	06/10/2021 04:19	WG1685408
Methyl tert-butyl ether	U		1.18	4.00	100	06/10/2021 04:19	WG1685408
Naphthalene	U		12.4	50.0	100	06/10/2021 04:19	WG1685408
n-Propylbenzene	U		4.72	20.0	100	06/10/2021 04:19	WG1685408
Styrene	U		10.9	50.0	100	06/10/2021 04:19	WG1685408
1,1,1,2-Tetrachloroethane	U		2.00	10.0	100	06/10/2021 04:19	WG1685408
1,1,2,2-Tetrachloroethane	U		1.56	10.0	100	06/10/2021 04:19	WG1685408
1,1,2-Trichlorotrifluoroethane	U		2.70	10.0	100	06/10/2021 04:19	WG1685408
Tetrachloroethene	16.2		2.80	10.0	100	06/10/2021 04:19	WG1685408
Toluene	U		5.00	20.0	100	06/10/2021 04:19	WG1685408
1,2,3-Trichlorobenzene	U		2.50	50.0	100	06/10/2021 04:19	WG1685408
1,2,4-Trichlorobenzene	U		19.3	50.0	100	06/10/2021 04:19	WG1685408
1,1,1-Trichloroethane	U		1.10	10.0	100	06/10/2021 04:19	WG1685408
1,1,2-Trichloroethane	U		3.53	10.0	100	06/10/2021 04:19	WG1685408
Trichloroethene	81.6		1.60	4.00	100	06/10/2021 04:19	WG1685408
Trichlorofluoromethane	U		2.00	10.0	100	06/10/2021 04:19	WG1685408
1,2,3-Trichloropropane	U		20.4	50.0	100	06/10/2021 04:19	WG1685408
1,2,4-Trimethylbenzene	U		4.64	20.0	100	06/10/2021 04:19	WG1685408
1,2,3-Trimethylbenzene	U	J4	4.60	20.0	100	06/10/2021 04:19	WG1685408
1,3,5-Trimethylbenzene	U		4.32	20.0	100	06/10/2021 04:19	WG1685408
Vinyl chloride	1230		2.73	10.0	100	06/10/2021 04:19	WG1685408
Xylenes, Total	U		19.1	26.0	100	06/10/2021 04:19	WG1685408
Ethyl Ether	U		1.70	10.0	100	06/10/2021 04:19	WG1685408
Tetrahydrofuran	U	J3	9.00	50.0	100	06/10/2021 04:19	WG1685408
Iodomethane	U		24.2	50.0	100	06/10/2021 04:19	WG1685408
Allyl chloride	U		58.0	100	100	06/10/2021 04:19	WG1685408
Trans-1,4-Dichloro-2-butene	U		5.60	20.0	100	06/10/2021 04:19	WG1685408
(S) Toluene-d8	*97.6*			*75.0-131*		*06/10/2021 04:19*	WG1685408
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*06/10/2021 04:19*	WG1685408
(S) 1,2-Dichloroethane-d4	*99.0*			*70.0-130*		*06/10/2021 04:19*	WG1685408

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	0.903	J	0.548	1.00	1	06/09/2021 22:57	WG1685408
Acrylonitrile	U		0.0760	0.500	1	06/09/2021 22:57	WG1685408
Benzene	U		0.0160	0.0400	1	06/09/2021 22:57	WG1685408
Bromobenzene	U		0.0420	0.500	1	06/09/2021 22:57	WG1685408
Bromodichloromethane	U		0.0315	0.100	1	06/09/2021 22:57	WG1685408
Bromoform	U		0.239	1.00	1	06/09/2021 22:57	WG1685408
Bromomethane	U	C3	0.148	0.500	1	06/09/2021 22:57	WG1685408
n-Butylbenzene	U		0.153	0.500	1	06/09/2021 22:57	WG1685408
sec-Butylbenzene	U		0.101	0.500	1	06/09/2021 22:57	WG1685408
tert-Butylbenzene	U		0.0620	0.200	1	06/09/2021 22:57	WG1685408
Carbon tetrachloride	U		0.0432	0.200	1	06/09/2021 22:57	WG1685408
Chlorobenzene	U		0.0229	0.100	1	06/09/2021 22:57	WG1685408
Chlorodibromomethane	U		0.0180	0.100	1	06/09/2021 22:57	WG1685408
Chloroethane	U		0.0432	0.200	1	06/09/2021 22:57	WG1685408
Chloroform	U		0.0166	0.100	1	06/09/2021 22:57	WG1685408
Chloromethane	U		0.0556	0.500	1	06/09/2021 22:57	WG1685408
2-Chlorotoluene	U		0.0368	0.100	1	06/09/2021 22:57	WG1685408
4-Chlorotoluene	U		0.0452	0.200	1	06/09/2021 22:57	WG1685408
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	06/09/2021 22:57	WG1685408
1,2-Dibromoethane	U		0.0210	0.100	1	06/09/2021 22:57	WG1685408
Dibromomethane	U		0.0400	0.200	1	06/09/2021 22:57	WG1685408
1,2-Dichlorobenzene	U		0.0580	0.200	1	06/09/2021 22:57	WG1685408
1,3-Dichlorobenzene	U		0.0680	0.200	1	06/09/2021 22:57	WG1685408
1,4-Dichlorobenzene	U		0.0788	0.200	1	06/09/2021 22:57	WG1685408
Dichlorodifluoromethane	U		0.0327	0.100	1	06/09/2021 22:57	WG1685408
1,1-Dichloroethane	U		0.0230	0.100	1	06/09/2021 22:57	WG1685408
1,2-Dichloroethane	U		0.0190	0.100	1	06/09/2021 22:57	WG1685408
1,1-Dichloroethene	U		0.0200	0.100	1	06/09/2021 22:57	WG1685408
cis-1,2-Dichloroethene	U		0.0276	0.100	1	06/09/2021 22:57	WG1685408
trans-1,2-Dichloroethene	U		0.0572	0.200	1	06/09/2021 22:57	WG1685408
1,2-Dichloropropane	U		0.0508	0.200	1	06/09/2021 22:57	WG1685408
1,1-Dichloropropene	U		0.0280	0.100	1	06/09/2021 22:57	WG1685408
1,3-Dichloropropane	U		0.0700	0.200	1	06/09/2021 22:57	WG1685408
cis-1,3-Dichloropropene	U		0.0271	0.100	1	06/09/2021 22:57	WG1685408
trans-1,3-Dichloropropene	U		0.0612	0.200	1	06/09/2021 22:57	WG1685408
2,2-Dichloropropane	U		0.0317	0.100	1	06/09/2021 22:57	WG1685408
Di-isopropyl ether	U		0.0140	0.0400	1	06/09/2021 22:57	WG1685408
Ethylbenzene	U		0.0212	0.100	1	06/09/2021 22:57	WG1685408
Hexachloro-1,3-butadiene	U		0.508	1.00	1	06/09/2021 22:57	WG1685408
Isopropylbenzene	U		0.0345	0.100	1	06/09/2021 22:57	WG1685408
p-Isopropyltoluene	U		0.0932	0.200	1	06/09/2021 22:57	WG1685408
2-Butanone (MEK)	U		0.500	1.00	1	06/09/2021 22:57	WG1685408
Methylene Chloride	U		0.265	1.00	1	06/09/2021 22:57	WG1685408
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	06/09/2021 22:57	WG1685408
Methyl tert-butyl ether	U		0.0118	0.0400	1	06/09/2021 22:57	WG1685408
Naphthalene	U		0.124	0.500	1	06/09/2021 22:57	WG1685408
n-Propylbenzene	U		0.0472	0.200	1	06/09/2021 22:57	WG1685408
Styrene	U		0.109	0.500	1	06/09/2021 22:57	WG1685408
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	06/09/2021 22:57	WG1685408
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	06/09/2021 22:57	WG1685408
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	06/09/2021 22:57	WG1685408
Tetrachloroethene	U		0.0280	0.100	1	06/09/2021 22:57	WG1685408
Toluene	U		0.0500	0.200	1	06/09/2021 22:57	WG1685408
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	06/09/2021 22:57	WG1685408
1,2,4-Trichlorobenzene	U		0.193	0.500	1	06/09/2021 22:57	WG1685408
1,1,1-Trichloroethane	U		0.0110	0.100	1	06/09/2021 22:57	WG1685408

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	06/09/2021 22:57	WG1685408
Trichloroethene	U		0.0160	0.0400	1	06/09/2021 22:57	WG1685408
Trichlorofluoromethane	U		0.0200	0.100	1	06/09/2021 22:57	WG1685408
1,2,3-Trichloropropane	U		0.204	0.500	1	06/09/2021 22:57	WG1685408
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	06/09/2021 22:57	WG1685408
1,2,3-Trimethylbenzene	U	J4	0.0460	0.200	1	06/09/2021 22:57	WG1685408
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	06/09/2021 22:57	WG1685408
Vinyl chloride	U		0.0273	0.100	1	06/09/2021 22:57	WG1685408
Xylenes, Total	U		0.191	0.260	1	06/09/2021 22:57	WG1685408
Ethyl Ether	U		0.0170	0.100	1	06/09/2021 22:57	WG1685408
Tetrahydrofuran	U	J3	0.0900	0.500	1	06/09/2021 22:57	WG1685408
Iodomethane	U		0.242	0.500	1	06/09/2021 22:57	WG1685408
Allyl chloride	U		0.580	1.00	1	06/09/2021 22:57	WG1685408
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	06/09/2021 22:57	WG1685408
(S) Toluene-d8	*97.6*			*75.0-131*		*06/09/2021 22:57*	WG1685408
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*06/09/2021 22:57*	WG1685408
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*06/09/2021 22:57*	WG1685408

Method Blank (MB)

(MB) R3665691-1 06/09/21 23:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1360869-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1360869-01 06/09/21 23:17 • (DUP) R3665691-2 06/09/21 23:36

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	178000	173000	1	3.24		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1360960-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1360960-03 06/10/21 03:08 • (DUP) R3665691-4 06/10/21 03:20

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	144000	143000	1	0.602		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3665691-3 06/10/21 01:01

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	103000	103	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3663142-1 06/03/21 10:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

L1360778-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1360778-01 06/03/21 11:53 • (DUP) R3663142-3 06/03/21 12:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	U	U	1	0.000		15

L1360797-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1360797-02 06/03/21 15:09 • (DUP) R3663142-6 06/03/21 15:26

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	24500	24600	1	0.523		15
Nitrate	2150	2160	1	0.608		15
Sulfate	4110	4140	1	0.897	J	15

L1360778-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1360778-01 06/03/21 19:16 • (DUP) R3663142-9 06/03/21 19:32

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	232000	232000	5	0.351		15

Laboratory Control Sample (LCS)

(LCS) R3663142-2 06/03/21 10:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39100	97.8	80.0-120	
Nitrate	8000	7960	99.5	80.0-120	
Sulfate	40000	38900	97.4	80.0-120	

L1360783-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1360783-03 06/03/21 13:31 • (MS) R3663142-4 06/03/21 13:47 • (MSD) R3663142-5 06/03/21 14:36

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate	5000	U	4880	4940	97.7	98.9	1	80.0-120			1.21	15
Sulfate	50000	16900	67000	68200	100	103	1	80.0-120			1.78	15

L1360867-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1360867-01 06/03/21 15:42 • (MS) R3663142-7 06/03/21 15:59 • (MSD) R3663142-8 06/03/21 16:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	76900	125000	125000	96.9	95.7	1	80.0-120	E	E	0.480	15
Sulfate	50000	82000	132000	131000	99.9	97.0	1	80.0-120	E	E	1.10	15

Method Blank (MB)

(MB) R3663829-2 06/06/21 19:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	413	J	102	1000

Laboratory Control Sample (LCS)

(LCS) R3663829-1 06/06/21 19:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	72600	96.8	85.0-115	

Method Blank (MB)

(MB) R3668064-1 06/16/21 13:08

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		28.1	100
Manganese	U		0.704	5.00

Laboratory Control Sample (LCS)

(LCS) R3668064-2 06/16/21 13:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	5000	5160	103	80.0-120	
Manganese	50.0	51.1	102	80.0-120	

L1359422-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1359422-01 06/16/21 13:15 • (MS) R3668064-4 06/16/21 13:22 • (MSD) R3668064-5 06/16/21 13:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	5000	49.2	4980	4700	98.6	93.1	1	75.0-125			5.72	20
Manganese	50.0	356	411	392	111	73.1	1	75.0-125		V	4.72	20

Method Blank (MB)

(MB) R3664193-2 06/07/21 14:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		2.91	10.0
Ethane	U		4.07	13.0
Ethene	U		4.26	13.0

L1361646-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1361646-01 06/07/21 14:12 • (DUP) R3664193-3 06/07/21 15:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	192	201	1	4.58		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1360894-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1360894-05 06/07/21 15:47 • (DUP) R3664193-4 06/07/21 16:19

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	1660	1710	1	2.97		20
Ethane	U	U	1	0.000		20
Ethene	86.9	89.3	1	2.72		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3664193-1 06/07/21 14:02 • (LCSD) R3664193-7 06/07/21 16:44

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	67.0	73.2	98.8	108	85.0-115			8.84	20
Ethane	129	124	124	96.1	96.1	85.0-115			0.000	20
Ethene	127	124	124	97.6	97.6	85.0-115			0.000	20

L1349507-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349507-01 06/07/21 16:13 • (MS) R3664193-5 06/07/21 16:37 • (MSD) R3664193-6 06/07/21 16:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	U	146	115	215	170	1	85.0-115	J5	J3 J5	23.8	20
Ethane	129	U	254	210	197	163	1	85.0-115	J5	J5	19.0	20
Ethene	127	U	254	210	200	165	1	85.0-115	J5	J5	19.0	20

Method Blank (MB)

(MB) R3667022-3 06/09/21 20:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3667022-3 06/09/21 20:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*97.9*			*75.0-131*
(S) 4-Bromofluorobenzene	*103*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*94.6*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3667022-1 06/09/21 19:30 • (LCSD) R3667022-2 06/09/21 19:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	20.0	18.8	80.0	75.2	10.0-160			6.19	31
Acrylonitrile	25.0	28.9	26.1	116	104	45.0-153			10.2	22
Benzene	5.00	5.62	5.21	112	104	70.0-123			7.57	20
Bromobenzene	5.00	4.60	4.24	92.0	84.8	73.0-121			8.14	20
Bromodichloromethane	5.00	5.34	4.98	107	99.6	73.0-121			6.98	20
Bromoform	5.00	4.32	4.05	86.4	81.0	64.0-132			6.45	20
Bromomethane	5.00	3.74	3.53	74.8	70.6	56.0-147			5.78	20
n-Butylbenzene	5.00	4.96	4.88	99.2	97.6	68.0-135			1.63	20
sec-Butylbenzene	5.00	5.16	5.14	103	103	74.0-130			0.388	20
tert-Butylbenzene	5.00	5.26	5.15	105	103	75.0-127			2.11	20
Carbon tetrachloride	5.00	5.36	5.13	107	103	66.0-128			4.39	20
Chlorobenzene	5.00	4.72	4.47	94.4	89.4	76.0-128			5.44	20
Chlorodibromomethane	5.00	4.94	4.58	98.8	91.6	74.0-127			7.56	20
Chloroethane	5.00	4.30	4.20	86.0	84.0	61.0-134			2.35	20
Chloroform	5.00	5.11	4.81	102	96.2	72.0-123			6.05	20
Chloromethane	5.00	4.82	4.67	96.4	93.4	51.0-138			3.16	20
2-Chlorotoluene	5.00	5.11	4.95	102	99.0	75.0-124			3.18	20
4-Chlorotoluene	5.00	5.07	4.78	101	95.6	75.0-124			5.89	20
1,2-Dibromo-3-Chloropropane	5.00	4.64	4.25	92.8	85.0	59.0-130			8.77	20
1,2-Dibromoethane	5.00	4.93	4.57	98.6	91.4	74.0-128			7.58	20
Dibromomethane	5.00	4.89	4.51	97.8	90.2	75.0-122			8.09	20
1,2-Dichlorobenzene	5.00	4.97	4.74	99.4	94.8	76.0-124			4.74	20
1,3-Dichlorobenzene	5.00	4.82	4.55	96.4	91.0	76.0-125			5.76	20
1,4-Dichlorobenzene	5.00	4.73	4.52	94.6	90.4	77.0-121			4.54	20
trans-1,4-Dichloro-2-butene	5.00	5.55	4.95	111	99.0	45.0-143			11.4	20
Dichlorodifluoromethane	5.00	6.04	5.75	121	115	43.0-156			4.92	20
1,1-Dichloroethane	5.00	5.44	5.11	109	102	70.0-127			6.26	20
1,2-Dichloroethane	5.00	4.89	4.43	97.8	88.6	65.0-131			9.87	20
1,1-Dichloroethene	5.00	5.99	5.67	120	113	65.0-131			5.49	20
cis-1,2-Dichloroethene	5.00	5.18	4.93	104	98.6	73.0-125			4.95	20
trans-1,2-Dichloroethene	5.00	5.35	5.15	107	103	71.0-125			3.81	20
1,2-Dichloropropane	5.00	5.98	5.71	120	114	74.0-125			4.62	20
1,1-Dichloropropene	5.00	5.48	5.10	110	102	73.0-125			7.18	20
1,3-Dichloropropane	5.00	5.04	4.56	101	91.2	80.0-125			10.0	20
cis-1,3-Dichloropropene	5.00	5.54	5.12	111	102	76.0-127			7.88	20
trans-1,3-Dichloropropene	5.00	5.24	4.76	105	95.2	73.0-127			9.60	20
2,2-Dichloropropane	5.00	5.94	5.85	119	117	59.0-135			1.53	20
Di-isopropyl ether	5.00	6.65	6.22	133	124	60.0-136			6.68	20
Ethylbenzene	5.00	4.73	4.61	94.6	92.2	74.0-126			2.57	20
Ethyl ether	5.00	5.80	5.31	116	106	64.0-137			8.82	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3667022-1 06/09/21 19:30 • (LCSD) R3667022-2 06/09/21 19:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	4.99	4.78	99.8	95.6	57.0-150			4.30	20
Iodomethane	25.0	24.8	23.4	99.2	93.6	74.0-134			5.81	20
Isopropylbenzene	5.00	5.16	5.05	103	101	72.0-127			2.15	20
p-Isopropyltoluene	5.00	5.20	5.09	104	102	72.0-133			2.14	20
2-Butanone (MEK)	25.0	27.8	26.1	111	104	30.0-160			6.31	24
Methylene Chloride	5.00	5.24	4.75	105	95.0	68.0-123			9.81	20
4-Methyl-2-pentanone (MIBK)	25.0	27.4	25.4	110	102	56.0-143			7.58	20
Methyl tert-butyl ether	5.00	5.88	5.42	118	108	66.0-132			8.14	20
Naphthalene	5.00	4.63	4.42	92.6	88.4	59.0-130			4.64	20
n-Propylbenzene	5.00	4.96	4.83	99.2	96.6	74.0-126			2.66	20
Styrene	5.00	4.84	4.68	96.8	93.6	72.0-127			3.36	20
1,1,1,2-Tetrachloroethane	5.00	4.85	4.54	97.0	90.8	74.0-129			6.60	20
1,1,2,2-Tetrachloroethane	5.00	5.04	4.57	101	91.4	68.0-128			9.78	20
Tetrachloroethene	5.00	4.59	4.48	91.8	89.6	70.0-136			2.43	20
Tetrahydrofuran	5.00	6.99	3.16	140	63.2	37.0-146		J3	75.5	24
Toluene	5.00	4.96	4.68	99.2	93.6	75.0-121			5.81	20
1,1,2-Trichlorotrifluoroethane	5.00	5.22	4.96	104	99.2	61.0-139			5.11	20
1,2,3-Trichlorobenzene	5.00	4.62	4.30	92.4	86.0	59.0-139			7.17	20
1,2,4-Trichlorobenzene	5.00	5.35	5.09	107	102	62.0-137			4.98	20
1,1,1-Trichloroethane	5.00	5.21	5.13	104	103	69.0-126			1.55	20
1,1,2-Trichloroethane	5.00	4.96	4.63	99.2	92.6	78.0-123			6.88	20
Trichloroethene	5.00	5.43	5.31	109	106	76.0-126			2.23	20
Trichlorofluoromethane	5.00	4.13	3.98	82.6	79.6	61.0-142			3.70	20
1,2,3-Trichloropropane	5.00	5.13	4.72	103	94.4	67.0-129			8.32	20
1,2,3-Trimethylbenzene	5.00	6.33	6.11	127	122	74.0-124	J4		3.54	20
1,2,4-Trimethylbenzene	5.00	5.28	5.07	106	101	70.0-126			4.06	20
1,3,5-Trimethylbenzene	5.00	5.20	4.98	104	99.6	73.0-127			4.32	20
Vinyl chloride	5.00	4.71	4.54	94.2	90.8	63.0-134			3.68	20
Xylenes, Total	15.0	14.4	14.4	96.0	96.0	72.0-127			0.000	20
Allyl chloride	25.0	28.4	26.8	114	107	70.0-131			5.80	20
(S) Toluene-d8				*96.7*	*98.1*	*75.0-131*				
(S) 4-Bromofluorobenzene				*104*	*106*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*92.4*	*91.4*	*70.0-130*				

Method Blank (MB)

(MB) R3667563-2 06/15/21 02:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*105*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3667563-1 06/15/21 00:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	5.00	5.07	101	73.0-125	
Vinyl chloride	5.00	4.48	89.6	63.0-134	
(S) Toluene-d8			*103*	*75.0-131*	
(S) 4-Bromofluorobenzene			*101*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*90.5*	*70.0-130*	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
PES Environmental, Inc.- WA

2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com;bhaldeman@pesenv.com;

Project Description:
American Linen

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413.001.02.501I

Lab Project #
PESENVSWA-ALP

Collected by (print):
HRC/SPK

Site/Facility ID #

P.O. #

Collected by (signature):
Immediately
Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed
Standard TAT

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	NO3, Cl, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	V8260C 40mlAmb/MeOH10ml/Syr	V8260ULLC 40mlAmb-HCl	dry weight 4ozClr-NoPres		Remarks	Sample # (lab only)
MW-954-060221	Grab	GW	59	6/2/21	700	9	X	X	X		X	X		X				-01
MW-346-060221		GW	59		845	9	X	X	X		X	X		X				-02
HMW-20IA-060221		GW	46		915	9	X	X	X		X	X		X				-03
HMW-9IA-060221		GW	42		1125	9	X	X	X		X	X		X				-04
HMW-9IB-060221		GW	62		1250	9	X	X	X		X	X		X				-05
TB-060221		GW	—		1400	1								X				-06
		GW																
		GW																
		GW																

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 9883 0088 5951

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 0.7 60°C
2.2+.1=2.3

Bottles Received: 45

Date: 6/3/21 Time: 915

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Chain of Custody Page 1 of 1

Pace Analytical

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 1360894

Tab 1031

Acctnum: PESENVSWA
Template: T187404
Prelogin: P846732
PM: 546 - Jared Starkey
PB: DN 5/19/21
Shipped Via: FedEX Saver

ANALYTICAL REPORT

June 21, 2021

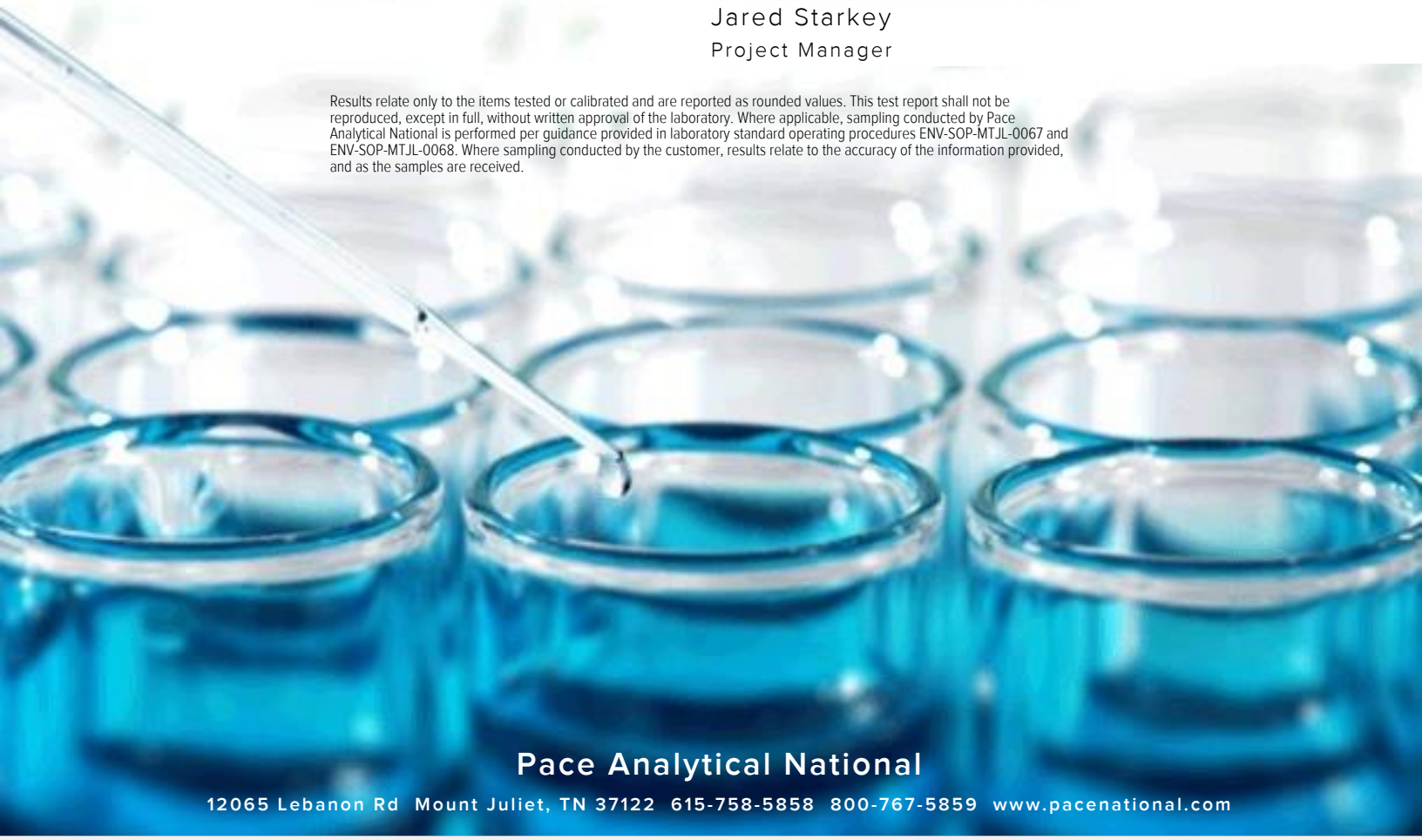
PES Environmental, Inc.- WA

Sample Delivery Group:	L1361280
Samples Received:	06/03/2021
Project Number:	1413.001.002.501I
Description:	American Linen

Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:

Jared Starkey
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-345-060121 L1361280-01 GW

Collected by: JRC/SPK | Collected date/time: 06/01/21 12:30 | Received date/time: 06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1685939	1	06/10/21 12:29	06/10/21 12:29	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1687598	1	06/12/21 17:25	06/12/21 17:25	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1683866	1	06/07/21 04:52	06/07/21 04:52	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1689286	1	06/16/21 12:22	06/16/21 20:12	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1682746	1	06/04/21 15:02	06/04/21 15:02	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1684061	1	06/07/21 16:59	06/07/21 16:59	ACG	Mt. Juliet, TN

MW-349-060121 L1361280-02 GW

Collected by: JRC/SPK | Collected date/time: 06/01/21 10:10 | Received date/time: 06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1685939	1	06/10/21 12:39	06/10/21 12:39	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1687598	1	06/12/21 17:55	06/12/21 17:55	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1683866	1	06/07/21 05:09	06/07/21 05:09	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1689286	1	06/16/21 12:22	06/16/21 20:16	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1682746	1	06/04/21 15:06	06/04/21 15:06	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1684061	1	06/07/21 17:18	06/07/21 17:18	ACG	Mt. Juliet, TN

MW-348-060121 L1361280-03 GW

Collected by: JRC/SPK | Collected date/time: 06/01/21 12:10 | Received date/time: 06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1685939	1	06/10/21 12:48	06/10/21 12:48	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1687598	1	06/12/21 18:41	06/12/21 18:41	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1683867	1	06/06/21 21:44	06/06/21 21:44	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1689286	1	06/16/21 12:22	06/16/21 20:19	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1682746	1	06/04/21 15:27	06/04/21 15:27	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1684061	1	06/07/21 17:38	06/07/21 17:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1685334	10	06/09/21 21:42	06/09/21 21:42	BMB	Mt. Juliet, TN

MW-344-060121 L1361280-04 GW

Collected by: JRC/SPK | Collected date/time: 06/01/21 10:00 | Received date/time: 06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1685939	1	06/10/21 12:57	06/10/21 12:57	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1687598	1	06/12/21 18:57	06/12/21 18:57	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1683867	1	06/06/21 22:09	06/06/21 22:09	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1689286	5	06/16/21 12:22	06/16/21 20:52	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1682746	1	06/04/21 15:31	06/04/21 15:31	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1684061	1	06/07/21 17:57	06/07/21 17:57	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1685334	1	06/09/21 22:01	06/09/21 22:01	BMB	Mt. Juliet, TN

MW-347-060121 L1361280-05 GW

Collected by: JRC/SPK | Collected date/time: 06/01/21 13:45 | Received date/time: 06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1685939	1	06/10/21 13:06	06/10/21 13:06	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1687598	1	06/12/21 19:12	06/12/21 19:12	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1683867	1	06/06/21 22:46	06/06/21 22:46	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1689286	1	06/16/21 12:22	06/16/21 20:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1682746	1	06/04/21 15:34	06/04/21 15:34	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1684061	1	06/07/21 18:15	06/07/21 18:15	ACG	Mt. Juliet, TN

MW-347-060121 L1361280-05 GW

Collected by: JRC/SPK | Collected date/time: 06/01/21 13:45 | Received date/time: 06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1685334	10	06/09/21 22:19	06/09/21 22:19	BMB	Mt. Juliet, TN

MW-350-060121 L1361280-06 GW

Collected by: JRC/SPK | Collected date/time: 06/01/21 15:50 | Received date/time: 06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1685939	1	06/10/21 13:15	06/10/21 13:15	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1687598	1	06/12/21 19:59	06/12/21 19:59	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1683867	1	06/06/21 22:58	06/06/21 22:58	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1690018	1	06/18/21 17:48	06/18/21 22:33	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1690018	5	06/18/21 17:48	06/19/21 00:00	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1682746	1	06/04/21 15:44	06/04/21 15:44	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1684061	1	06/07/21 19:03	06/07/21 19:03	ACG	Mt. Juliet, TN

EQ-060121 L1361280-07 GW

Collected by: JRC/SPK | Collected date/time: 06/01/21 14:30 | Received date/time: 06/03/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1685939	1	06/10/21 13:33	06/10/21 13:33	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1687598	1	06/12/21 20:14	06/12/21 20:14	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1683867	1	06/06/21 23:09	06/06/21 23:09	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1690018	1	06/18/21 17:48	06/18/21 21:43	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1682746	1	06/04/21 15:48	06/04/21 15:48	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1685408	1	06/09/21 23:35	06/09/21 23:35	BMB	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jared Starkey
Project Manager

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	233000		8450	20000	1	06/10/2021 12:29	WG1685939

Sample Narrative:

L1361280-01 WG1685939: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	50500		379	1000	1	06/12/2021 17:25	WG1687598
Nitrate	64.7	J P1 T8	48.0	100	1	06/12/2021 17:25	WG1687598
Sulfate	55700		594	5000	1	06/12/2021 17:25	WG1687598

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2740	B	102	1000	1	06/07/2021 04:52	WG1683866

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	961		28.1	100	1	06/16/2021 20:12	WG1689286
Manganese	125		0.704	5.00	1	06/16/2021 20:12	WG1689286

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	241		0.287	0.678	1	06/04/2021 15:02	WG1682746
Ethane	7.26		0.296	1.29	1	06/04/2021 15:02	WG1682746
Ethene	9.64		0.422	1.27	1	06/04/2021 15:02	WG1682746

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.52	C5 J3	0.548	1.00	1	06/07/2021 16:59	WG1684061
Acrylonitrile	U	J3	0.0760	0.500	1	06/07/2021 16:59	WG1684061
Benzene	U		0.0160	0.0400	1	06/07/2021 16:59	WG1684061
Bromobenzene	U		0.0420	0.500	1	06/07/2021 16:59	WG1684061
Bromodichloromethane	U		0.0315	0.100	1	06/07/2021 16:59	WG1684061
Bromoform	U		0.239	1.00	1	06/07/2021 16:59	WG1684061
Bromomethane	U	C3	0.148	0.500	1	06/07/2021 16:59	WG1684061
n-Butylbenzene	U		0.153	0.500	1	06/07/2021 16:59	WG1684061
sec-Butylbenzene	U		0.101	0.500	1	06/07/2021 16:59	WG1684061
tert-Butylbenzene	U		0.0620	0.200	1	06/07/2021 16:59	WG1684061
Carbon tetrachloride	U		0.0432	0.200	1	06/07/2021 16:59	WG1684061
Chlorobenzene	U		0.0229	0.100	1	06/07/2021 16:59	WG1684061
Chlorodibromomethane	U		0.0180	0.100	1	06/07/2021 16:59	WG1684061
Chloroethane	U		0.0432	0.200	1	06/07/2021 16:59	WG1684061
Chloroform	U		0.0166	0.100	1	06/07/2021 16:59	WG1684061
Chloromethane	U		0.0556	0.500	1	06/07/2021 16:59	WG1684061
2-Chlorotoluene	U		0.0368	0.100	1	06/07/2021 16:59	WG1684061
4-Chlorotoluene	U		0.0452	0.200	1	06/07/2021 16:59	WG1684061
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	06/07/2021 16:59	WG1684061
1,2-Dibromoethane	U		0.0210	0.100	1	06/07/2021 16:59	WG1684061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	06/07/2021 16:59	WG1684061
1,2-Dichlorobenzene	U		0.0580	0.200	1	06/07/2021 16:59	WG1684061
1,3-Dichlorobenzene	U		0.0680	0.200	1	06/07/2021 16:59	WG1684061
1,4-Dichlorobenzene	U		0.0788	0.200	1	06/07/2021 16:59	WG1684061
Dichlorodifluoromethane	U		0.0327	0.100	1	06/07/2021 16:59	WG1684061
1,1-Dichloroethane	U		0.0230	0.100	1	06/07/2021 16:59	WG1684061
1,2-Dichloroethane	U		0.0190	0.100	1	06/07/2021 16:59	WG1684061
1,1-Dichloroethene	U		0.0200	0.100	1	06/07/2021 16:59	WG1684061
cis-1,2-Dichloroethene	13.9		0.0276	0.100	1	06/07/2021 16:59	WG1684061
trans-1,2-Dichloroethene	0.0600	J	0.0572	0.200	1	06/07/2021 16:59	WG1684061
1,2-Dichloropropane	U		0.0508	0.200	1	06/07/2021 16:59	WG1684061
1,1-Dichloropropene	U		0.0280	0.100	1	06/07/2021 16:59	WG1684061
1,3-Dichloropropane	U		0.0700	0.200	1	06/07/2021 16:59	WG1684061
cis-1,3-Dichloropropene	U		0.0271	0.100	1	06/07/2021 16:59	WG1684061
trans-1,3-Dichloropropene	U		0.0612	0.200	1	06/07/2021 16:59	WG1684061
2,2-Dichloropropane	U		0.0317	0.100	1	06/07/2021 16:59	WG1684061
Di-isopropyl ether	U		0.0140	0.0400	1	06/07/2021 16:59	WG1684061
Ethylbenzene	U		0.0212	0.100	1	06/07/2021 16:59	WG1684061
Hexachloro-1,3-butadiene	U		0.508	1.00	1	06/07/2021 16:59	WG1684061
Isopropylbenzene	U		0.0345	0.100	1	06/07/2021 16:59	WG1684061
p-Isopropyltoluene	U		0.0932	0.200	1	06/07/2021 16:59	WG1684061
2-Butanone (MEK)	U		0.500	1.00	1	06/07/2021 16:59	WG1684061
Methylene Chloride	U		0.265	1.00	1	06/07/2021 16:59	WG1684061
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	06/07/2021 16:59	WG1684061
Methyl tert-butyl ether	U		0.0118	0.0400	1	06/07/2021 16:59	WG1684061
Naphthalene	U	C3 J3	0.124	0.500	1	06/07/2021 16:59	WG1684061
n-Propylbenzene	U		0.0472	0.200	1	06/07/2021 16:59	WG1684061
Styrene	U		0.109	0.500	1	06/07/2021 16:59	WG1684061
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	06/07/2021 16:59	WG1684061
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	06/07/2021 16:59	WG1684061
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	06/07/2021 16:59	WG1684061
Tetrachloroethene	0.717		0.0280	0.100	1	06/07/2021 16:59	WG1684061
Toluene	0.176	J	0.0500	0.200	1	06/07/2021 16:59	WG1684061
1,2,3-Trichlorobenzene	U	J3	0.0250	0.500	1	06/07/2021 16:59	WG1684061
1,2,4-Trichlorobenzene	U	J3	0.193	0.500	1	06/07/2021 16:59	WG1684061
1,1,1-Trichloroethane	U		0.0110	0.100	1	06/07/2021 16:59	WG1684061
1,1,2-Trichloroethane	U		0.0353	0.100	1	06/07/2021 16:59	WG1684061
Trichloroethene	0.456		0.0160	0.0400	1	06/07/2021 16:59	WG1684061
Trichlorofluoromethane	U	C3	0.0200	0.100	1	06/07/2021 16:59	WG1684061
1,2,3-Trichloropropane	U		0.204	0.500	1	06/07/2021 16:59	WG1684061
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	06/07/2021 16:59	WG1684061
1,2,3-Trimethylbenzene	U	J4	0.0460	0.200	1	06/07/2021 16:59	WG1684061
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	06/07/2021 16:59	WG1684061
Vinyl chloride	8.76		0.0273	0.100	1	06/07/2021 16:59	WG1684061
Xylenes, Total	U		0.191	0.260	1	06/07/2021 16:59	WG1684061
Ethyl Ether	U		0.0170	0.100	1	06/07/2021 16:59	WG1684061
Tetrahydrofuran	U	J3 J4	0.0900	0.500	1	06/07/2021 16:59	WG1684061
Iodomethane	U		0.242	0.500	1	06/07/2021 16:59	WG1684061
Allyl chloride	U		0.580	1.00	1	06/07/2021 16:59	WG1684061
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	06/07/2021 16:59	WG1684061
(S) Toluene-d8	*98.5*			*75.0-131*		*06/07/2021 16:59*	WG1684061
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*06/07/2021 16:59*	WG1684061
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*06/07/2021 16:59*	WG1684061

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	233000		8450	20000	1	06/10/2021 12:39	WG1685939

Sample Narrative:

L1361280-02 WG1685939: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	33700		379	1000	1	06/12/2021 17:55	WG1687598
Nitrate	U	T8	48.0	100	1	06/12/2021 17:55	WG1687598
Sulfate	57100		594	5000	1	06/12/2021 17:55	WG1687598

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2750	B	102	1000	1	06/07/2021 05:09	WG1683866

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	722		28.1	100	1	06/16/2021 20:16	WG1689286
Manganese	116		0.704	5.00	1	06/16/2021 20:16	WG1689286

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	184		0.287	0.678	1	06/04/2021 15:06	WG1682746
Ethane	U		0.296	1.29	1	06/04/2021 15:06	WG1682746
Ethene	U		0.422	1.27	1	06/04/2021 15:06	WG1682746

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	12.9	C5 J3	0.548	1.00	1	06/07/2021 17:18	WG1684061
Acrylonitrile	U	J3	0.0760	0.500	1	06/07/2021 17:18	WG1684061
Benzene	U		0.0160	0.0400	1	06/07/2021 17:18	WG1684061
Bromobenzene	U		0.0420	0.500	1	06/07/2021 17:18	WG1684061
Bromodichloromethane	U		0.0315	0.100	1	06/07/2021 17:18	WG1684061
Bromoform	U		0.239	1.00	1	06/07/2021 17:18	WG1684061
Bromomethane	U	C3	0.148	0.500	1	06/07/2021 17:18	WG1684061
n-Butylbenzene	U		0.153	0.500	1	06/07/2021 17:18	WG1684061
sec-Butylbenzene	U		0.101	0.500	1	06/07/2021 17:18	WG1684061
tert-Butylbenzene	U		0.0620	0.200	1	06/07/2021 17:18	WG1684061
Carbon tetrachloride	U		0.0432	0.200	1	06/07/2021 17:18	WG1684061
Chlorobenzene	U		0.0229	0.100	1	06/07/2021 17:18	WG1684061
Chlorodibromomethane	U		0.0180	0.100	1	06/07/2021 17:18	WG1684061
Chloroethane	U		0.0432	0.200	1	06/07/2021 17:18	WG1684061
Chloroform	U		0.0166	0.100	1	06/07/2021 17:18	WG1684061
Chloromethane	U		0.0556	0.500	1	06/07/2021 17:18	WG1684061
2-Chlorotoluene	U		0.0368	0.100	1	06/07/2021 17:18	WG1684061
4-Chlorotoluene	U		0.0452	0.200	1	06/07/2021 17:18	WG1684061
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	06/07/2021 17:18	WG1684061
1,2-Dibromoethane	U		0.0210	0.100	1	06/07/2021 17:18	WG1684061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	06/07/2021 17:18	WG1684061
1,2-Dichlorobenzene	U		0.0580	0.200	1	06/07/2021 17:18	WG1684061
1,3-Dichlorobenzene	U		0.0680	0.200	1	06/07/2021 17:18	WG1684061
1,4-Dichlorobenzene	U		0.0788	0.200	1	06/07/2021 17:18	WG1684061
Dichlorodifluoromethane	U		0.0327	0.100	1	06/07/2021 17:18	WG1684061
1,1-Dichloroethane	U		0.0230	0.100	1	06/07/2021 17:18	WG1684061
1,2-Dichloroethane	U		0.0190	0.100	1	06/07/2021 17:18	WG1684061
1,1-Dichloroethene	U		0.0200	0.100	1	06/07/2021 17:18	WG1684061
cis-1,2-Dichloroethene	7.23		0.0276	0.100	1	06/07/2021 17:18	WG1684061
trans-1,2-Dichloroethene	U		0.0572	0.200	1	06/07/2021 17:18	WG1684061
1,2-Dichloropropane	U		0.0508	0.200	1	06/07/2021 17:18	WG1684061
1,1-Dichloropropene	U		0.0280	0.100	1	06/07/2021 17:18	WG1684061
1,3-Dichloropropane	U		0.0700	0.200	1	06/07/2021 17:18	WG1684061
cis-1,3-Dichloropropene	U		0.0271	0.100	1	06/07/2021 17:18	WG1684061
trans-1,3-Dichloropropene	U		0.0612	0.200	1	06/07/2021 17:18	WG1684061
2,2-Dichloropropane	U		0.0317	0.100	1	06/07/2021 17:18	WG1684061
Di-isopropyl ether	U		0.0140	0.0400	1	06/07/2021 17:18	WG1684061
Ethylbenzene	0.0400	J	0.0212	0.100	1	06/07/2021 17:18	WG1684061
Hexachloro-1,3-butadiene	U		0.508	1.00	1	06/07/2021 17:18	WG1684061
Isopropylbenzene	U		0.0345	0.100	1	06/07/2021 17:18	WG1684061
p-Isopropyltoluene	U		0.0932	0.200	1	06/07/2021 17:18	WG1684061
2-Butanone (MEK)	3.47	C5	0.500	1.00	1	06/07/2021 17:18	WG1684061
Methylene Chloride	U		0.265	1.00	1	06/07/2021 17:18	WG1684061
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	06/07/2021 17:18	WG1684061
Methyl tert-butyl ether	U		0.0118	0.0400	1	06/07/2021 17:18	WG1684061
Naphthalene	U	C3 J3	0.124	0.500	1	06/07/2021 17:18	WG1684061
n-Propylbenzene	U		0.0472	0.200	1	06/07/2021 17:18	WG1684061
Styrene	U		0.109	0.500	1	06/07/2021 17:18	WG1684061
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	06/07/2021 17:18	WG1684061
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	06/07/2021 17:18	WG1684061
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	06/07/2021 17:18	WG1684061
Tetrachloroethene	0.611		0.0280	0.100	1	06/07/2021 17:18	WG1684061
Toluene	2.60		0.0500	0.200	1	06/07/2021 17:18	WG1684061
1,2,3-Trichlorobenzene	U	J3	0.0250	0.500	1	06/07/2021 17:18	WG1684061
1,2,4-Trichlorobenzene	U	J3	0.193	0.500	1	06/07/2021 17:18	WG1684061
1,1,1-Trichloroethane	U		0.0110	0.100	1	06/07/2021 17:18	WG1684061
1,1,2-Trichloroethane	U		0.0353	0.100	1	06/07/2021 17:18	WG1684061
Trichloroethene	0.474		0.0160	0.0400	1	06/07/2021 17:18	WG1684061
Trichlorofluoromethane	U	C3	0.0200	0.100	1	06/07/2021 17:18	WG1684061
1,2,3-Trichloropropane	U		0.204	0.500	1	06/07/2021 17:18	WG1684061
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	06/07/2021 17:18	WG1684061
1,2,3-Trimethylbenzene	U	J4	0.0460	0.200	1	06/07/2021 17:18	WG1684061
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	06/07/2021 17:18	WG1684061
Vinyl chloride	11.6		0.0273	0.100	1	06/07/2021 17:18	WG1684061
Xylenes, Total	0.191	J	0.191	0.260	1	06/07/2021 17:18	WG1684061
Ethyl Ether	U		0.0170	0.100	1	06/07/2021 17:18	WG1684061
Tetrahydrofuran	U	J3 J4	0.0900	0.500	1	06/07/2021 17:18	WG1684061
Iodomethane	U		0.242	0.500	1	06/07/2021 17:18	WG1684061
Allyl chloride	U		0.580	1.00	1	06/07/2021 17:18	WG1684061
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	06/07/2021 17:18	WG1684061
(S) Toluene-d8	*98.5*			*75.0-131*		*06/07/2021 17:18*	WG1684061
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*06/07/2021 17:18*	WG1684061
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*		*06/07/2021 17:18*	WG1684061

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	233000		8450	20000	1	06/10/2021 12:48	WG1685939

Sample Narrative:

L1361280-03 WG1685939: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	57300		379	1000	1	06/12/2021 18:41	WG1687598
Nitrate	86.5	J T8	48.0	100	1	06/12/2021 18:41	WG1687598
Sulfate	66900		594	5000	1	06/12/2021 18:41	WG1687598

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2090	B	102	1000	1	06/06/2021 21:44	WG1683867

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2050		28.1	100	1	06/16/2021 20:19	WG1689286
Manganese	114		0.704	5.00	1	06/16/2021 20:19	WG1689286

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	166		0.287	0.678	1	06/04/2021 15:27	WG1682746
Ethane	U		0.296	1.29	1	06/04/2021 15:27	WG1682746
Ethene	13.1		0.422	1.27	1	06/04/2021 15:27	WG1682746

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.69	C5 J3	0.548	1.00	1	06/07/2021 17:38	WG1684061
Acrylonitrile	U	J3	0.0760	0.500	1	06/07/2021 17:38	WG1684061
Benzene	0.0190	J	0.0160	0.0400	1	06/07/2021 17:38	WG1684061
Bromobenzene	U		0.0420	0.500	1	06/07/2021 17:38	WG1684061
Bromodichloromethane	U		0.0315	0.100	1	06/07/2021 17:38	WG1684061
Bromoform	U		0.239	1.00	1	06/07/2021 17:38	WG1684061
Bromomethane	U	C3	0.148	0.500	1	06/07/2021 17:38	WG1684061
n-Butylbenzene	U		0.153	0.500	1	06/07/2021 17:38	WG1684061
sec-Butylbenzene	U		0.101	0.500	1	06/07/2021 17:38	WG1684061
tert-Butylbenzene	U		0.0620	0.200	1	06/07/2021 17:38	WG1684061
Carbon tetrachloride	U		0.0432	0.200	1	06/07/2021 17:38	WG1684061
Chlorobenzene	U		0.0229	0.100	1	06/07/2021 17:38	WG1684061
Chlorodibromomethane	U		0.0180	0.100	1	06/07/2021 17:38	WG1684061
Chloroethane	U		0.0432	0.200	1	06/07/2021 17:38	WG1684061
Chloroform	U		0.0166	0.100	1	06/07/2021 17:38	WG1684061
Chloromethane	U		0.0556	0.500	1	06/07/2021 17:38	WG1684061
2-Chlorotoluene	U		0.0368	0.100	1	06/07/2021 17:38	WG1684061
4-Chlorotoluene	U		0.0452	0.200	1	06/07/2021 17:38	WG1684061
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	06/07/2021 17:38	WG1684061
1,2-Dibromoethane	U		0.0210	0.100	1	06/07/2021 17:38	WG1684061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	06/07/2021 17:38	WG1684061
1,2-Dichlorobenzene	U		0.0580	0.200	1	06/07/2021 17:38	WG1684061
1,3-Dichlorobenzene	U		0.0680	0.200	1	06/07/2021 17:38	WG1684061
1,4-Dichlorobenzene	U		0.0788	0.200	1	06/07/2021 17:38	WG1684061
Dichlorodifluoromethane	U		0.0327	0.100	1	06/07/2021 17:38	WG1684061
1,1-Dichloroethane	0.0940	J	0.0230	0.100	1	06/07/2021 17:38	WG1684061
1,2-Dichloroethane	U		0.0190	0.100	1	06/07/2021 17:38	WG1684061
1,1-Dichloroethene	1.29		0.0200	0.100	1	06/07/2021 17:38	WG1684061
cis-1,2-Dichloroethene	104		0.276	1.00	10	06/09/2021 21:42	WG1685334
trans-1,2-Dichloroethene	0.107	J	0.0572	0.200	1	06/07/2021 17:38	WG1684061
1,2-Dichloropropane	U		0.0508	0.200	1	06/07/2021 17:38	WG1684061
1,1-Dichloropropene	U		0.0280	0.100	1	06/07/2021 17:38	WG1684061
1,3-Dichloropropane	U		0.0700	0.200	1	06/07/2021 17:38	WG1684061
cis-1,3-Dichloropropene	U		0.0271	0.100	1	06/07/2021 17:38	WG1684061
trans-1,3-Dichloropropene	U		0.0612	0.200	1	06/07/2021 17:38	WG1684061
2,2-Dichloropropane	U		0.0317	0.100	1	06/07/2021 17:38	WG1684061
Di-isopropyl ether	U		0.0140	0.0400	1	06/07/2021 17:38	WG1684061
Ethylbenzene	U		0.0212	0.100	1	06/07/2021 17:38	WG1684061
Hexachloro-1,3-butadiene	U		0.508	1.00	1	06/07/2021 17:38	WG1684061
Isopropylbenzene	U		0.0345	0.100	1	06/07/2021 17:38	WG1684061
p-Isopropyltoluene	U		0.0932	0.200	1	06/07/2021 17:38	WG1684061
2-Butanone (MEK)	U		0.500	1.00	1	06/07/2021 17:38	WG1684061
Methylene Chloride	U		0.265	1.00	1	06/07/2021 17:38	WG1684061
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	06/07/2021 17:38	WG1684061
Methyl tert-butyl ether	U		0.0118	0.0400	1	06/07/2021 17:38	WG1684061
Naphthalene	U	C3 J3	0.124	0.500	1	06/07/2021 17:38	WG1684061
n-Propylbenzene	U		0.0472	0.200	1	06/07/2021 17:38	WG1684061
Styrene	U		0.109	0.500	1	06/07/2021 17:38	WG1684061
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	06/07/2021 17:38	WG1684061
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	06/07/2021 17:38	WG1684061
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	06/07/2021 17:38	WG1684061
Tetrachloroethene	12.6		0.0280	0.100	1	06/07/2021 17:38	WG1684061
Toluene	0.170	J	0.0500	0.200	1	06/07/2021 17:38	WG1684061
1,2,3-Trichlorobenzene	U	J3	0.0250	0.500	1	06/07/2021 17:38	WG1684061
1,2,4-Trichlorobenzene	U	J3	0.193	0.500	1	06/07/2021 17:38	WG1684061
1,1,1-Trichloroethane	U		0.0110	0.100	1	06/07/2021 17:38	WG1684061
1,1,2-Trichloroethane	U		0.0353	0.100	1	06/07/2021 17:38	WG1684061
Trichloroethene	8.62		0.0160	0.0400	1	06/07/2021 17:38	WG1684061
Trichlorofluoromethane	U	C3	0.0200	0.100	1	06/07/2021 17:38	WG1684061
1,2,3-Trichloropropane	U		0.204	0.500	1	06/07/2021 17:38	WG1684061
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	06/07/2021 17:38	WG1684061
1,2,3-Trimethylbenzene	U	J4	0.0460	0.200	1	06/07/2021 17:38	WG1684061
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	06/07/2021 17:38	WG1684061
Vinyl chloride	55.4		0.0273	0.100	1	06/07/2021 17:38	WG1684061
Xylenes, Total	U		0.191	0.260	1	06/07/2021 17:38	WG1684061
Ethyl Ether	U		0.0170	0.100	1	06/07/2021 17:38	WG1684061
Tetrahydrofuran	U	J3 J4	0.0900	0.500	1	06/07/2021 17:38	WG1684061
Iodomethane	U		0.242	0.500	1	06/07/2021 17:38	WG1684061
Allyl chloride	U		0.580	1.00	1	06/07/2021 17:38	WG1684061
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	06/07/2021 17:38	WG1684061
(S) Toluene-d8	*99.2*			*75.0-131*		*06/07/2021 17:38*	WG1684061
(S) Toluene-d8	*97.4*			*75.0-131*		*06/09/2021 21:42*	WG1685334
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*06/07/2021 17:38*	WG1684061
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*06/09/2021 21:42*	WG1685334
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*06/07/2021 17:38*	WG1684061
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*06/09/2021 21:42*	WG1685334

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	227000		8450	20000	1	06/10/2021 12:57	WG1685939

Sample Narrative:

L1361280-04 WG1685939: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	19900		379	1000	1	06/12/2021 18:57	WG1687598
Nitrate	U	T8	48.0	100	1	06/12/2021 18:57	WG1687598
Sulfate	57800		594	5000	1	06/12/2021 18:57	WG1687598

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	924	B J	102	1000	1	06/06/2021 22:09	WG1683867

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2060		140	500	5	06/16/2021 20:52	WG1689286
Manganese	641		3.52	25.0	5	06/16/2021 20:52	WG1689286

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	96.5		0.287	0.678	1	06/04/2021 15:31	WG1682746
Ethane	U		0.296	1.29	1	06/04/2021 15:31	WG1682746
Ethene	U		0.422	1.27	1	06/04/2021 15:31	WG1682746

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.10	C5 J3	0.548	1.00	1	06/07/2021 17:57	WG1684061
Acrylonitrile	U	J3	0.0760	0.500	1	06/07/2021 17:57	WG1684061
Benzene	U		0.0160	0.0400	1	06/07/2021 17:57	WG1684061
Bromobenzene	U		0.0420	0.500	1	06/07/2021 17:57	WG1684061
Bromodichloromethane	U		0.0315	0.100	1	06/07/2021 17:57	WG1684061
Bromoform	U		0.239	1.00	1	06/07/2021 17:57	WG1684061
Bromomethane	U	C3	0.148	0.500	1	06/07/2021 17:57	WG1684061
n-Butylbenzene	U		0.153	0.500	1	06/07/2021 17:57	WG1684061
sec-Butylbenzene	U		0.101	0.500	1	06/07/2021 17:57	WG1684061
tert-Butylbenzene	U		0.0620	0.200	1	06/07/2021 17:57	WG1684061
Carbon tetrachloride	U		0.0432	0.200	1	06/07/2021 17:57	WG1684061
Chlorobenzene	U		0.0229	0.100	1	06/07/2021 17:57	WG1684061
Chlorodibromomethane	U		0.0180	0.100	1	06/07/2021 17:57	WG1684061
Chloroethane	U		0.0432	0.200	1	06/07/2021 17:57	WG1684061
Chloroform	U		0.0166	0.100	1	06/07/2021 17:57	WG1684061
Chloromethane	U		0.0556	0.500	1	06/07/2021 17:57	WG1684061
2-Chlorotoluene	U		0.0368	0.100	1	06/07/2021 17:57	WG1684061
4-Chlorotoluene	U		0.0452	0.200	1	06/07/2021 17:57	WG1684061
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	06/07/2021 17:57	WG1684061
1,2-Dibromoethane	U		0.0210	0.100	1	06/07/2021 17:57	WG1684061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	06/07/2021 17:57	WG1684061
1,2-Dichlorobenzene	U		0.0580	0.200	1	06/07/2021 17:57	WG1684061
1,3-Dichlorobenzene	U		0.0680	0.200	1	06/07/2021 17:57	WG1684061
1,4-Dichlorobenzene	U		0.0788	0.200	1	06/07/2021 17:57	WG1684061
Dichlorodifluoromethane	U		0.0327	0.100	1	06/07/2021 17:57	WG1684061
1,1-Dichloroethane	U		0.0230	0.100	1	06/07/2021 17:57	WG1684061
1,2-Dichloroethane	U		0.0190	0.100	1	06/07/2021 17:57	WG1684061
1,1-Dichloroethene	U		0.0200	0.100	1	06/07/2021 17:57	WG1684061
cis-1,2-Dichloroethene	8.50		0.0276	0.100	1	06/09/2021 22:01	WG1685334
trans-1,2-Dichloroethene	U		0.0572	0.200	1	06/07/2021 17:57	WG1684061
1,2-Dichloropropane	U		0.0508	0.200	1	06/07/2021 17:57	WG1684061
1,1-Dichloropropene	U		0.0280	0.100	1	06/07/2021 17:57	WG1684061
1,3-Dichloropropane	U		0.0700	0.200	1	06/07/2021 17:57	WG1684061
cis-1,3-Dichloropropene	U		0.0271	0.100	1	06/07/2021 17:57	WG1684061
trans-1,3-Dichloropropene	U		0.0612	0.200	1	06/07/2021 17:57	WG1684061
2,2-Dichloropropane	U		0.0317	0.100	1	06/07/2021 17:57	WG1684061
Di-isopropyl ether	U		0.0140	0.0400	1	06/07/2021 17:57	WG1684061
Ethylbenzene	U		0.0212	0.100	1	06/07/2021 17:57	WG1684061
Hexachloro-1,3-butadiene	U		0.508	1.00	1	06/07/2021 17:57	WG1684061
Isopropylbenzene	U		0.0345	0.100	1	06/07/2021 17:57	WG1684061
p-Isopropyltoluene	U		0.0932	0.200	1	06/07/2021 17:57	WG1684061
2-Butanone (MEK)	U		0.500	1.00	1	06/07/2021 17:57	WG1684061
Methylene Chloride	U		0.265	1.00	1	06/07/2021 17:57	WG1684061
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	06/07/2021 17:57	WG1684061
Methyl tert-butyl ether	U		0.0118	0.0400	1	06/07/2021 17:57	WG1684061
Naphthalene	U	C3 J3	0.124	0.500	1	06/07/2021 17:57	WG1684061
n-Propylbenzene	U		0.0472	0.200	1	06/07/2021 17:57	WG1684061
Styrene	U		0.109	0.500	1	06/07/2021 17:57	WG1684061
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	06/07/2021 17:57	WG1684061
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	06/07/2021 17:57	WG1684061
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	06/07/2021 17:57	WG1684061
Tetrachloroethene	0.0920	J	0.0280	0.100	1	06/07/2021 17:57	WG1684061
Toluene	0.0700	J	0.0500	0.200	1	06/07/2021 17:57	WG1684061
1,2,3-Trichlorobenzene	U	J3	0.0250	0.500	1	06/07/2021 17:57	WG1684061
1,2,4-Trichlorobenzene	U	J3	0.193	0.500	1	06/07/2021 17:57	WG1684061
1,1,1-Trichloroethane	U		0.0110	0.100	1	06/07/2021 17:57	WG1684061
1,1,2-Trichloroethane	U		0.0353	0.100	1	06/07/2021 17:57	WG1684061
Trichloroethene	0.0940		0.0160	0.0400	1	06/07/2021 17:57	WG1684061
Trichlorofluoromethane	U	C3	0.0200	0.100	1	06/07/2021 17:57	WG1684061
1,2,3-Trichloropropane	U		0.204	0.500	1	06/07/2021 17:57	WG1684061
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	06/07/2021 17:57	WG1684061
1,2,3-Trimethylbenzene	U	J4	0.0460	0.200	1	06/07/2021 17:57	WG1684061
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	06/07/2021 17:57	WG1684061
Vinyl chloride	9.95		0.0273	0.100	1	06/07/2021 17:57	WG1684061
Xylenes, Total	U		0.191	0.260	1	06/07/2021 17:57	WG1684061
Ethyl Ether	U		0.0170	0.100	1	06/07/2021 17:57	WG1684061
Tetrahydrofuran	U	J3 J4	0.0900	0.500	1	06/07/2021 17:57	WG1684061
Iodomethane	U		0.242	0.500	1	06/07/2021 17:57	WG1684061
Allyl chloride	U		0.580	1.00	1	06/07/2021 17:57	WG1684061
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	06/07/2021 17:57	WG1684061
(S) Toluene-d8	*99.2*			*75.0-131*		*06/07/2021 17:57*	WG1684061
(S) Toluene-d8	*97.0*			*75.0-131*		*06/09/2021 22:01*	WG1685334
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*06/07/2021 17:57*	WG1684061
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*06/09/2021 22:01*	WG1685334
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*06/07/2021 17:57*	WG1684061
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*06/09/2021 22:01*	WG1685334

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	226000		8450	20000	1	06/10/2021 13:06	WG1685939

Sample Narrative:

L1361280-05 WG1685939: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	60400		379	1000	1	06/12/2021 19:12	WG1687598
Nitrate	U	T8	48.0	100	1	06/12/2021 19:12	WG1687598
Sulfate	85700		594	5000	1	06/12/2021 19:12	WG1687598

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2740	B	102	1000	1	06/06/2021 22:46	WG1683867

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2020		28.1	100	1	06/16/2021 20:32	WG1689286
Manganese	109		0.704	5.00	1	06/16/2021 20:32	WG1689286

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	55.3		0.287	0.678	1	06/04/2021 15:34	WG1682746
Ethane	19.8		0.296	1.29	1	06/04/2021 15:34	WG1682746
Ethene	34.8		0.422	1.27	1	06/04/2021 15:34	WG1682746

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.27	C5 J3	0.548	1.00	1	06/07/2021 18:15	WG1684061
Acrylonitrile	U	J3	0.0760	0.500	1	06/07/2021 18:15	WG1684061
Benzene	0.0300	J	0.0160	0.0400	1	06/07/2021 18:15	WG1684061
Bromobenzene	U		0.0420	0.500	1	06/07/2021 18:15	WG1684061
Bromodichloromethane	U		0.0315	0.100	1	06/07/2021 18:15	WG1684061
Bromoform	U		0.239	1.00	1	06/07/2021 18:15	WG1684061
Bromomethane	U	C3	0.148	0.500	1	06/07/2021 18:15	WG1684061
n-Butylbenzene	U		0.153	0.500	1	06/07/2021 18:15	WG1684061
sec-Butylbenzene	U		0.101	0.500	1	06/07/2021 18:15	WG1684061
tert-Butylbenzene	U		0.0620	0.200	1	06/07/2021 18:15	WG1684061
Carbon tetrachloride	U		0.0432	0.200	1	06/07/2021 18:15	WG1684061
Chlorobenzene	U		0.0229	0.100	1	06/07/2021 18:15	WG1684061
Chlorodibromomethane	U		0.0180	0.100	1	06/07/2021 18:15	WG1684061
Chloroethane	U		0.0432	0.200	1	06/07/2021 18:15	WG1684061
Chloroform	0.316		0.0166	0.100	1	06/07/2021 18:15	WG1684061
Chloromethane	U		0.0556	0.500	1	06/07/2021 18:15	WG1684061
2-Chlorotoluene	U		0.0368	0.100	1	06/07/2021 18:15	WG1684061
4-Chlorotoluene	U		0.0452	0.200	1	06/07/2021 18:15	WG1684061
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	06/07/2021 18:15	WG1684061
1,2-Dibromoethane	U		0.0210	0.100	1	06/07/2021 18:15	WG1684061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	06/07/2021 18:15	WG1684061
1,2-Dichlorobenzene	U		0.0580	0.200	1	06/07/2021 18:15	WG1684061
1,3-Dichlorobenzene	U		0.0680	0.200	1	06/07/2021 18:15	WG1684061
1,4-Dichlorobenzene	U		0.0788	0.200	1	06/07/2021 18:15	WG1684061
Dichlorodifluoromethane	U		0.0327	0.100	1	06/07/2021 18:15	WG1684061
1,1-Dichloroethane	U		0.0230	0.100	1	06/07/2021 18:15	WG1684061
1,2-Dichloroethane	U		0.0190	0.100	1	06/07/2021 18:15	WG1684061
1,1-Dichloroethene	0.147		0.0200	0.100	1	06/07/2021 18:15	WG1684061
cis-1,2-Dichloroethene	123		0.276	1.00	10	06/09/2021 22:19	WG1685334
trans-1,2-Dichloroethene	0.291		0.0572	0.200	1	06/07/2021 18:15	WG1684061
1,2-Dichloropropane	U		0.0508	0.200	1	06/07/2021 18:15	WG1684061
1,1-Dichloropropene	U		0.0280	0.100	1	06/07/2021 18:15	WG1684061
1,3-Dichloropropane	U		0.0700	0.200	1	06/07/2021 18:15	WG1684061
cis-1,3-Dichloropropene	U		0.0271	0.100	1	06/07/2021 18:15	WG1684061
trans-1,3-Dichloropropene	U		0.0612	0.200	1	06/07/2021 18:15	WG1684061
2,2-Dichloropropane	U		0.0317	0.100	1	06/07/2021 18:15	WG1684061
Di-isopropyl ether	U		0.0140	0.0400	1	06/07/2021 18:15	WG1684061
Ethylbenzene	U		0.0212	0.100	1	06/07/2021 18:15	WG1684061
Hexachloro-1,3-butadiene	U		0.508	1.00	1	06/07/2021 18:15	WG1684061
Isopropylbenzene	U		0.0345	0.100	1	06/07/2021 18:15	WG1684061
p-Isopropyltoluene	U		0.0932	0.200	1	06/07/2021 18:15	WG1684061
2-Butanone (MEK)	U		0.500	1.00	1	06/07/2021 18:15	WG1684061
Methylene Chloride	U		0.265	1.00	1	06/07/2021 18:15	WG1684061
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	06/07/2021 18:15	WG1684061
Methyl tert-butyl ether	U		0.0118	0.0400	1	06/07/2021 18:15	WG1684061
Naphthalene	U	C3 J3	0.124	0.500	1	06/07/2021 18:15	WG1684061
n-Propylbenzene	U		0.0472	0.200	1	06/07/2021 18:15	WG1684061
Styrene	U		0.109	0.500	1	06/07/2021 18:15	WG1684061
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	06/07/2021 18:15	WG1684061
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	06/07/2021 18:15	WG1684061
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	06/07/2021 18:15	WG1684061
Tetrachloroethene	5.19		0.0280	0.100	1	06/07/2021 18:15	WG1684061
Toluene	0.346		0.0500	0.200	1	06/07/2021 18:15	WG1684061
1,2,3-Trichlorobenzene	U	J3	0.0250	0.500	1	06/07/2021 18:15	WG1684061
1,2,4-Trichlorobenzene	U	J3	0.193	0.500	1	06/07/2021 18:15	WG1684061
1,1,1-Trichloroethane	U		0.0110	0.100	1	06/07/2021 18:15	WG1684061
1,1,2-Trichloroethane	U		0.0353	0.100	1	06/07/2021 18:15	WG1684061
Trichloroethene	3.83		0.0160	0.0400	1	06/07/2021 18:15	WG1684061
Trichlorofluoromethane	U	C3	0.0200	0.100	1	06/07/2021 18:15	WG1684061
1,2,3-Trichloropropane	U		0.204	0.500	1	06/07/2021 18:15	WG1684061
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	06/07/2021 18:15	WG1684061
1,2,3-Trimethylbenzene	U	J4	0.0460	0.200	1	06/07/2021 18:15	WG1684061
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	06/07/2021 18:15	WG1684061
Vinyl chloride	66.9		0.0273	0.100	1	06/07/2021 18:15	WG1684061
Xylenes, Total	U		0.191	0.260	1	06/07/2021 18:15	WG1684061
Ethyl Ether	U		0.0170	0.100	1	06/07/2021 18:15	WG1684061
Tetrahydrofuran	U	J3 J4	0.0900	0.500	1	06/07/2021 18:15	WG1684061
Iodomethane	U		0.242	0.500	1	06/07/2021 18:15	WG1684061
Allyl chloride	U		0.580	1.00	1	06/07/2021 18:15	WG1684061
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	06/07/2021 18:15	WG1684061
(S) Toluene-d8	*99.7*			*75.0-131*		*06/07/2021 18:15*	WG1684061
(S) Toluene-d8	*97.1*			*75.0-131*		*06/09/2021 22:19*	WG1685334
(S) 4-Bromofluorobenzene	*99.8*			*67.0-138*		*06/07/2021 18:15*	WG1684061
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*06/09/2021 22:19*	WG1685334
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*06/07/2021 18:15*	WG1684061
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*06/09/2021 22:19*	WG1685334

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	264000		8450	20000	1	06/10/2021 13:15	WG1685939

Sample Narrative:

L1361280-06 WG1685939: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	23200		379	1000	1	06/12/2021 19:59	WG1687598
Nitrate	U	T8	48.0	100	1	06/12/2021 19:59	WG1687598
Sulfate	59800		594	5000	1	06/12/2021 19:59	WG1687598

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2520	B	102	1000	1	06/06/2021 22:58	WG1683867

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2930		140	500	5	06/19/2021 00:00	WG1690018
Manganese	191		0.704	5.00	1	06/18/2021 22:33	WG1690018

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	145		0.287	0.678	1	06/04/2021 15:44	WG1682746
Ethane	16.0		0.296	1.29	1	06/04/2021 15:44	WG1682746
Ethene	9.41		0.422	1.27	1	06/04/2021 15:44	WG1682746

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.548	1.00	1	06/07/2021 19:03	WG1684061
Acrylonitrile	U	J3	0.0760	0.500	1	06/07/2021 19:03	WG1684061
Benzene	1.16		0.0160	0.0400	1	06/07/2021 19:03	WG1684061
Bromobenzene	U		0.0420	0.500	1	06/07/2021 19:03	WG1684061
Bromodichloromethane	U		0.0315	0.100	1	06/07/2021 19:03	WG1684061
Bromoform	U		0.239	1.00	1	06/07/2021 19:03	WG1684061
Bromomethane	U	C3	0.148	0.500	1	06/07/2021 19:03	WG1684061
n-Butylbenzene	0.756		0.153	0.500	1	06/07/2021 19:03	WG1684061
sec-Butylbenzene	0.730		0.101	0.500	1	06/07/2021 19:03	WG1684061
tert-Butylbenzene	U		0.0620	0.200	1	06/07/2021 19:03	WG1684061
Carbon tetrachloride	U		0.0432	0.200	1	06/07/2021 19:03	WG1684061
Chlorobenzene	U		0.0229	0.100	1	06/07/2021 19:03	WG1684061
Chlorodibromomethane	U		0.0180	0.100	1	06/07/2021 19:03	WG1684061
Chloroethane	U		0.0432	0.200	1	06/07/2021 19:03	WG1684061
Chloroform	U		0.0166	0.100	1	06/07/2021 19:03	WG1684061
Chloromethane	U		0.0556	0.500	1	06/07/2021 19:03	WG1684061
2-Chlorotoluene	U		0.0368	0.100	1	06/07/2021 19:03	WG1684061
4-Chlorotoluene	U		0.0452	0.200	1	06/07/2021 19:03	WG1684061
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	06/07/2021 19:03	WG1684061
1,2-Dibromoethane	U		0.0210	0.100	1	06/07/2021 19:03	WG1684061

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	06/07/2021 19:03	WG1684061
1,2-Dichlorobenzene	U		0.0580	0.200	1	06/07/2021 19:03	WG1684061
1,3-Dichlorobenzene	U		0.0680	0.200	1	06/07/2021 19:03	WG1684061
1,4-Dichlorobenzene	U		0.0788	0.200	1	06/07/2021 19:03	WG1684061
Dichlorodifluoromethane	U		0.0327	0.100	1	06/07/2021 19:03	WG1684061
1,1-Dichloroethane	U		0.0230	0.100	1	06/07/2021 19:03	WG1684061
1,2-Dichloroethane	U		0.0190	0.100	1	06/07/2021 19:03	WG1684061
1,1-Dichloroethene	U		0.0200	0.100	1	06/07/2021 19:03	WG1684061
cis-1,2-Dichloroethene	U		0.0276	0.100	1	06/07/2021 19:03	WG1684061
trans-1,2-Dichloroethene	U		0.0572	0.200	1	06/07/2021 19:03	WG1684061
1,2-Dichloropropane	U		0.0508	0.200	1	06/07/2021 19:03	WG1684061
1,1-Dichloropropene	U		0.0280	0.100	1	06/07/2021 19:03	WG1684061
1,3-Dichloropropane	U		0.0700	0.200	1	06/07/2021 19:03	WG1684061
cis-1,3-Dichloropropene	U		0.0271	0.100	1	06/07/2021 19:03	WG1684061
trans-1,3-Dichloropropene	U		0.0612	0.200	1	06/07/2021 19:03	WG1684061
2,2-Dichloropropane	U		0.0317	0.100	1	06/07/2021 19:03	WG1684061
Di-isopropyl ether	U		0.0140	0.0400	1	06/07/2021 19:03	WG1684061
Ethylbenzene	11.5		0.0212	0.100	1	06/07/2021 19:03	WG1684061
Hexachloro-1,3-butadiene	U		0.508	1.00	1	06/07/2021 19:03	WG1684061
Isopropylbenzene	2.67		0.0345	0.100	1	06/07/2021 19:03	WG1684061
p-Isopropyltoluene	1.13		0.0932	0.200	1	06/07/2021 19:03	WG1684061
2-Butanone (MEK)	U		0.500	1.00	1	06/07/2021 19:03	WG1684061
Methylene Chloride	U		0.265	1.00	1	06/07/2021 19:03	WG1684061
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	06/07/2021 19:03	WG1684061
Methyl tert-butyl ether	U		0.0118	0.0400	1	06/07/2021 19:03	WG1684061
Naphthalene	4.60	C3 J3	0.124	0.500	1	06/07/2021 19:03	WG1684061
n-Propylbenzene	5.12		0.0472	0.200	1	06/07/2021 19:03	WG1684061
Styrene	U		0.109	0.500	1	06/07/2021 19:03	WG1684061
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	06/07/2021 19:03	WG1684061
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	06/07/2021 19:03	WG1684061
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	06/07/2021 19:03	WG1684061
Tetrachloroethene	U		0.0280	0.100	1	06/07/2021 19:03	WG1684061
Toluene	10.9		0.0500	0.200	1	06/07/2021 19:03	WG1684061
1,2,3-Trichlorobenzene	U	J3	0.0250	0.500	1	06/07/2021 19:03	WG1684061
1,2,4-Trichlorobenzene	U	J3	0.193	0.500	1	06/07/2021 19:03	WG1684061
1,1,1-Trichloroethane	U		0.0110	0.100	1	06/07/2021 19:03	WG1684061
1,1,2-Trichloroethane	U		0.0353	0.100	1	06/07/2021 19:03	WG1684061
Trichloroethene	U		0.0160	0.0400	1	06/07/2021 19:03	WG1684061
Trichlorofluoromethane	U	C3	0.0200	0.100	1	06/07/2021 19:03	WG1684061
1,2,3-Trichloropropane	U		0.204	0.500	1	06/07/2021 19:03	WG1684061
1,2,4-Trimethylbenzene	34.8		0.0464	0.200	1	06/07/2021 19:03	WG1684061
1,2,3-Trimethylbenzene	20.9	C5 J4	0.0460	0.200	1	06/07/2021 19:03	WG1684061
1,3,5-Trimethylbenzene	13.2		0.0432	0.200	1	06/07/2021 19:03	WG1684061
Vinyl chloride	U		0.0273	0.100	1	06/07/2021 19:03	WG1684061
Xylenes, Total	56.7		0.191	0.260	1	06/07/2021 19:03	WG1684061
Ethyl Ether	U		0.0170	0.100	1	06/07/2021 19:03	WG1684061
Tetrahydrofuran	U	J3 J4	0.0900	0.500	1	06/07/2021 19:03	WG1684061
Iodomethane	U		0.242	0.500	1	06/07/2021 19:03	WG1684061
Allyl chloride	U		0.580	1.00	1	06/07/2021 19:03	WG1684061
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	06/07/2021 19:03	WG1684061
(S) Toluene-d8	*98.2*			*75.0-131*		*06/07/2021 19:03*	WG1684061
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*06/07/2021 19:03*	WG1684061
(S) 1,2-Dichloroethane-d4	*96.6*			*70.0-130*		*06/07/2021 19:03*	WG1684061

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	U		8450	20000	1	06/10/2021 13:33	WG1685939

Sample Narrative:

L1361280-07 WG1685939: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	418	J	379	1000	1	06/12/2021 20:14	WG1687598
Nitrate	U	T8	48.0	100	1	06/12/2021 20:14	WG1687598
Sulfate	U		594	5000	1	06/12/2021 20:14	WG1687598

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	268	B J	102	1000	1	06/06/2021 23:09	WG1683867

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	U		28.1	100	1	06/18/2021 21:43	WG1690018
Manganese	0.785	J	0.704	5.00	1	06/18/2021 21:43	WG1690018

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	06/04/2021 15:48	WG1682746
Ethane	U		0.296	1.29	1	06/04/2021 15:48	WG1682746
Ethene	U		0.422	1.27	1	06/04/2021 15:48	WG1682746

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	5.63		0.548	1.00	1	06/09/2021 23:35	WG1685408
Acrylonitrile	U		0.0760	0.500	1	06/09/2021 23:35	WG1685408
Benzene	U		0.0160	0.0400	1	06/09/2021 23:35	WG1685408
Bromobenzene	U		0.0420	0.500	1	06/09/2021 23:35	WG1685408
Bromodichloromethane	U		0.0315	0.100	1	06/09/2021 23:35	WG1685408
Bromoform	U		0.239	1.00	1	06/09/2021 23:35	WG1685408
Bromomethane	U	C3	0.148	0.500	1	06/09/2021 23:35	WG1685408
n-Butylbenzene	U		0.153	0.500	1	06/09/2021 23:35	WG1685408
sec-Butylbenzene	U		0.101	0.500	1	06/09/2021 23:35	WG1685408
tert-Butylbenzene	U		0.0620	0.200	1	06/09/2021 23:35	WG1685408
Carbon tetrachloride	U		0.0432	0.200	1	06/09/2021 23:35	WG1685408
Chlorobenzene	U		0.0229	0.100	1	06/09/2021 23:35	WG1685408
Chlorodibromomethane	U		0.0180	0.100	1	06/09/2021 23:35	WG1685408
Chloroethane	U		0.0432	0.200	1	06/09/2021 23:35	WG1685408
Chloroform	U		0.0166	0.100	1	06/09/2021 23:35	WG1685408
Chloromethane	U		0.0556	0.500	1	06/09/2021 23:35	WG1685408
2-Chlorotoluene	U		0.0368	0.100	1	06/09/2021 23:35	WG1685408
4-Chlorotoluene	U		0.0452	0.200	1	06/09/2021 23:35	WG1685408
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	06/09/2021 23:35	WG1685408
1,2-Dibromoethane	U		0.0210	0.100	1	06/09/2021 23:35	WG1685408

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	06/09/2021 23:35	WG1685408
1,2-Dichlorobenzene	U		0.0580	0.200	1	06/09/2021 23:35	WG1685408
1,3-Dichlorobenzene	U		0.0680	0.200	1	06/09/2021 23:35	WG1685408
1,4-Dichlorobenzene	U		0.0788	0.200	1	06/09/2021 23:35	WG1685408
Dichlorodifluoromethane	U		0.0327	0.100	1	06/09/2021 23:35	WG1685408
1,1-Dichloroethane	U		0.0230	0.100	1	06/09/2021 23:35	WG1685408
1,2-Dichloroethane	U		0.0190	0.100	1	06/09/2021 23:35	WG1685408
1,1-Dichloroethene	U		0.0200	0.100	1	06/09/2021 23:35	WG1685408
cis-1,2-Dichloroethene	U		0.0276	0.100	1	06/09/2021 23:35	WG1685408
trans-1,2-Dichloroethene	U		0.0572	0.200	1	06/09/2021 23:35	WG1685408
1,2-Dichloropropane	U		0.0508	0.200	1	06/09/2021 23:35	WG1685408
1,1-Dichloropropene	U		0.0280	0.100	1	06/09/2021 23:35	WG1685408
1,3-Dichloropropane	U		0.0700	0.200	1	06/09/2021 23:35	WG1685408
cis-1,3-Dichloropropene	U		0.0271	0.100	1	06/09/2021 23:35	WG1685408
trans-1,3-Dichloropropene	U		0.0612	0.200	1	06/09/2021 23:35	WG1685408
2,2-Dichloropropane	U		0.0317	0.100	1	06/09/2021 23:35	WG1685408
Di-isopropyl ether	U		0.0140	0.0400	1	06/09/2021 23:35	WG1685408
Ethylbenzene	U		0.0212	0.100	1	06/09/2021 23:35	WG1685408
Hexachloro-1,3-butadiene	U		0.508	1.00	1	06/09/2021 23:35	WG1685408
Isopropylbenzene	U		0.0345	0.100	1	06/09/2021 23:35	WG1685408
p-Isopropyltoluene	U		0.0932	0.200	1	06/09/2021 23:35	WG1685408
2-Butanone (MEK)	2.74		0.500	1.00	1	06/09/2021 23:35	WG1685408
Methylene Chloride	U		0.265	1.00	1	06/09/2021 23:35	WG1685408
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	06/09/2021 23:35	WG1685408
Methyl tert-butyl ether	U		0.0118	0.0400	1	06/09/2021 23:35	WG1685408
Naphthalene	U		0.124	0.500	1	06/09/2021 23:35	WG1685408
n-Propylbenzene	U		0.0472	0.200	1	06/09/2021 23:35	WG1685408
Styrene	U		0.109	0.500	1	06/09/2021 23:35	WG1685408
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	06/09/2021 23:35	WG1685408
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	06/09/2021 23:35	WG1685408
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	06/09/2021 23:35	WG1685408
Tetrachloroethene	0.0460	J	0.0280	0.100	1	06/09/2021 23:35	WG1685408
Toluene	U		0.0500	0.200	1	06/09/2021 23:35	WG1685408
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	06/09/2021 23:35	WG1685408
1,2,4-Trichlorobenzene	U		0.193	0.500	1	06/09/2021 23:35	WG1685408
1,1,1-Trichloroethane	U		0.0110	0.100	1	06/09/2021 23:35	WG1685408
1,1,2-Trichloroethane	U		0.0353	0.100	1	06/09/2021 23:35	WG1685408
Trichloroethene	U		0.0160	0.0400	1	06/09/2021 23:35	WG1685408
Trichlorofluoromethane	U		0.0200	0.100	1	06/09/2021 23:35	WG1685408
1,2,3-Trichloropropane	U		0.204	0.500	1	06/09/2021 23:35	WG1685408
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	06/09/2021 23:35	WG1685408
1,2,3-Trimethylbenzene	U	J4	0.0460	0.200	1	06/09/2021 23:35	WG1685408
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	06/09/2021 23:35	WG1685408
Vinyl chloride	U		0.0273	0.100	1	06/09/2021 23:35	WG1685408
Xylenes, Total	U		0.191	0.260	1	06/09/2021 23:35	WG1685408
Ethyl Ether	U		0.0170	0.100	1	06/09/2021 23:35	WG1685408
Tetrahydrofuran	U	J3	0.0900	0.500	1	06/09/2021 23:35	WG1685408
Iodomethane	U		0.242	0.500	1	06/09/2021 23:35	WG1685408
Allyl chloride	U		0.580	1.00	1	06/09/2021 23:35	WG1685408
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	06/09/2021 23:35	WG1685408
(S) Toluene-d8	*96.8*			*75.0-131*		*06/09/2021 23:35*	WG1685408
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*06/09/2021 23:35*	WG1685408
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*06/09/2021 23:35*	WG1685408

Method Blank (MB)

(MB) R3665710-1 06/10/21 09:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1361148-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1361148-04 06/10/21 10:38 • (DUP) R3665710-2 06/10/21 10:47

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	780000	782000	1	0.204		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1361280-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1361280-06 06/10/21 13:15 • (DUP) R3665710-4 06/10/21 13:24

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	264000	264000	1	0.340		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3665710-3 06/10/21 11:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	101000	101	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3666636-1 06/12/21 11:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

L1361280-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1361280-01 06/12/21 17:25 • (DUP) R3666636-3 06/12/21 17:40

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	50500	50500	1	0.155		15
Nitrate	64.7	U	1	200	P1	15
Sulfate	55700	56000	1	0.457		15

L1362562-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1362562-09 06/13/21 03:29 • (DUP) R3666636-7 06/13/21 03:44

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	22500	22500	1	0.101		15
Nitrate	U	63.4	1	200	J P1	15
Sulfate	57100	57200	1	0.234		15

Laboratory Control Sample (LCS)

(LCS) R3666636-2 06/12/21 11:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	40300	101	80.0-120	
Nitrate	8000	8210	103	80.0-120	
Sulfate	40000	40300	101	80.0-120	

L1361280-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1361280-02 06/12/21 17:55 • (MS) R3666636-4 06/12/21 18:11 • (MSD) R3666636-5 06/12/21 18:26

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	33700	83700	84400	100	102	1	80.0-120			0.912	15
Nitrate	5000	U	4880	4940	97.6	98.8	1	80.0-120			1.31	15
Sulfate	50000	57100	107000	108000	100	102	1	80.0-120	E	E	0.580	15

L1362562-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1362562-06 06/13/21 01:41 • (MS) R3666636-6 06/13/21 01:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	258000	296000	76.5	1	80.0-120	E V
Nitrate	5000	126	5020	97.8	1	80.0-120	

Method Blank (MB)

(MB) R3663829-2 06/06/21 19:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	413	J	102	1000

Laboratory Control Sample (LCS)

(LCS) R3663829-1 06/06/21 19:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	72600	96.8	85.0-115	

Method Blank (MB)

(MB) R3663821-2 06/06/21 20:36

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	290	J	102	1000

L1361280-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1361280-03 06/06/21 21:44 • (DUP) R3663821-5 06/06/21 21:55

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2090	2070	1	1.30		20

L1361538-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1361538-03 06/07/21 04:18 • (DUP) R3663821-8 06/07/21 04:31

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	7570	7430	1	1.85		20

Laboratory Control Sample (LCS)

(LCS) R3663821-1 06/06/21 20:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	70800	94.4	85.0-115	

L1361280-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1361280-04 06/06/21 22:09 • (MS) R3663821-3 06/06/21 22:22 • (MSD) R3663821-4 06/06/21 22:35

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	924	46500	45800	91.2	89.7	1	80.0-120			1.56	20

L1361538-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1361538-04 06/07/21 04:42 • (MS) R3663821-6 06/07/21 04:58 • (MSD) R3663821-7 06/07/21 05:17

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	1160	46100	46300	90.0	90.3	1	80.0-120			0.346	20

Method Blank (MB)

(MB) R3668241-1 06/16/21 19:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		28.1	100
Manganese	U		0.704	5.00

Laboratory Control Sample (LCS)

(LCS) R3668241-2 06/16/21 19:07

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	5000	5190	104	80.0-120	
Manganese	50.0	50.8	102	80.0-120	

L1359675-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1359675-01 06/16/21 19:10 • (MS) R3668241-4 06/16/21 19:17 • (MSD) R3668241-5 06/16/21 19:20

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	5000	U	5130	5080	103	102	1	75.0-125			1.01	20
Manganese	50.0	0.726	51.9	50.0	104	99.9	1	75.0-125			3.82	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3669276-1 06/18/21 21:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Iron	U		28.1	100
Manganese	U		0.704	5.00

Laboratory Control Sample (LCS)

(LCS) R3669276-2 06/18/21 21:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	4820	96.5	80.0-120	
Manganese	50.0	47.7	95.4	80.0-120	

L1361280-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1361280-07 06/18/21 21:43 • (MS) R3669276-4 06/18/21 21:50 • (MSD) R3669276-5 06/18/21 21:53

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	5000	U	5020	4980	100	99.7	1	75.0-125			0.794	20
Manganese	50.0	0.785	51.4	50.6	101	99.7	1	75.0-125			1.52	20

Method Blank (MB)

(MB) R3663425-2 06/04/21 13:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1359819-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1359819-02 06/04/21 14:06 • (DUP) R3663425-3 06/04/21 14:44

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	102	106	1	3.85		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1361280-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1361280-04 06/04/21 15:31 • (DUP) R3663425-4 06/04/21 15:52

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	96.5	105	1	8.44		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3663425-1 06/04/21 13:51 • (LCSD) R3663425-7 06/04/21 16:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methane	67.8	63.8	71.0	94.1	105	85.0-115			10.7	20
Ethane	129	121	131	93.8	102	85.0-115			7.94	20
Ethene	127	122	131	96.1	103	85.0-115			7.11	20

L1360867-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1360867-01 06/04/21 14:17 • (MS) R3663425-5 06/04/21 15:57 • (MSD) R3663425-6 06/04/21 16:00

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	U	119	146	176	215	1	85.0-115	J5	J3 J5	20.4	20
Ethane	129	U	213	265	165	205	1	85.0-115	J5	J3 J5	21.8	20
Ethene	127	U	214	265	169	209	1	85.0-115	J5	J3 J5	21.3	20

Method Blank (MB)

(MB) R3664884-3 06/07/21 10:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3664884-3 06/07/21 10:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*93.4*			*75.0-131*
(S) 4-Bromofluorobenzene	*113*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3664884-1 06/07/21 08:20 • (LCSD) R3664884-2 06/07/21 08:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	39.0	23.4	156	93.6	10.0-160		J3	50.0	31
Acrylonitrile	25.0	35.8	27.3	143	109	45.0-153		J3	26.9	22
Benzene	5.00	5.49	5.37	110	107	70.0-123			2.21	20
Bromobenzene	5.00	4.13	4.36	82.6	87.2	73.0-121			5.42	20
Bromodichloromethane	5.00	5.21	5.08	104	102	73.0-121			2.53	20
Bromoform	5.00	4.43	4.27	88.6	85.4	64.0-132			3.68	20
Bromomethane	5.00	3.58	3.77	71.6	75.4	56.0-147			5.17	20
n-Butylbenzene	5.00	5.15	5.42	103	108	68.0-135			5.11	20
sec-Butylbenzene	5.00	4.99	5.44	99.8	109	74.0-130			8.63	20
tert-Butylbenzene	5.00	4.71	5.28	94.2	106	75.0-127			11.4	20
Carbon tetrachloride	5.00	5.29	5.30	106	106	66.0-128			0.189	20
Chlorobenzene	5.00	4.65	4.63	93.0	92.6	76.0-128			0.431	20
Chlorodibromomethane	5.00	4.69	4.88	93.8	97.6	74.0-127			3.97	20
Chloroethane	5.00	4.11	4.24	82.2	84.8	61.0-134			3.11	20
Chloroform	5.00	5.05	4.92	101	98.4	72.0-123			2.61	20
Chloromethane	5.00	4.46	4.65	89.2	93.0	51.0-138			4.17	20
2-Chlorotoluene	5.00	4.70	4.95	94.0	99.0	75.0-124			5.18	20
4-Chlorotoluene	5.00	4.75	4.95	95.0	99.0	75.0-124			4.12	20
1,2-Dibromo-3-Chloropropane	5.00	4.40	4.62	88.0	92.4	59.0-130			4.88	20
1,2-Dibromoethane	5.00	4.60	4.91	92.0	98.2	74.0-128			6.52	20
Dibromomethane	5.00	4.93	4.59	98.6	91.8	75.0-122			7.14	20
1,2-Dichlorobenzene	5.00	4.90	4.98	98.0	99.6	76.0-124			1.62	20
1,3-Dichlorobenzene	5.00	4.64	4.79	92.8	95.8	76.0-125			3.18	20
1,4-Dichlorobenzene	5.00	4.61	4.70	92.2	94.0	77.0-121			1.93	20
trans-1,4-Dichloro-2-butene	5.00	5.21	5.50	104	110	45.0-143			5.42	20
Dichlorodifluoromethane	5.00	4.99	5.07	99.8	101	43.0-156			1.59	20
1,1-Dichloroethane	5.00	5.29	5.35	106	107	70.0-127			1.13	20
1,2-Dichloroethane	5.00	4.92	4.68	98.4	93.6	65.0-131			5.00	20
1,1-Dichloroethene	5.00	5.58	5.73	112	115	65.0-131			2.65	20
cis-1,2-Dichloroethene	5.00	5.14	5.00	103	100	73.0-125			2.76	20
trans-1,2-Dichloroethene	5.00	5.23	5.24	105	105	71.0-125			0.191	20
1,2-Dichloropropane	5.00	6.06	5.80	121	116	74.0-125			4.38	20
1,1-Dichloropropene	5.00	5.24	5.16	105	103	73.0-125			1.54	20
1,3-Dichloropropane	5.00	4.64	4.89	92.8	97.8	80.0-125			5.25	20
cis-1,3-Dichloropropene	5.00	5.28	5.11	106	102	76.0-127			3.27	20
trans-1,3-Dichloropropene	5.00	4.84	5.10	96.8	102	73.0-127			5.23	20
2,2-Dichloropropane	5.00	6.26	6.63	125	133	59.0-135			5.74	20
Di-isopropyl ether	5.00	6.37	6.35	127	127	60.0-136			0.314	20
Ethylbenzene	5.00	4.69	4.75	93.8	95.0	74.0-126			1.27	20
Ethyl ether	5.00	5.54	5.65	111	113	64.0-137			1.97	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3664884-1 06/07/21 08:20 • (LCSD) R3664884-2 06/07/21 08:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	5.62	6.37	112	127	57.0-150			12.5	20
Iodomethane	25.0	24.1	24.4	96.4	97.6	74.0-134			1.24	20
Isopropylbenzene	5.00	5.20	5.21	104	104	72.0-127			0.192	20
p-Isopropyltoluene	5.00	5.07	5.48	101	110	72.0-133			7.77	20
2-Butanone (MEK)	25.0	34.0	29.2	136	117	30.0-160			15.2	24
Methylene Chloride	5.00	5.11	4.86	102	97.2	68.0-123			5.02	20
4-Methyl-2-pentanone (MIBK)	25.0	28.5	28.3	114	113	56.0-143			0.704	20
Methyl tert-butyl ether	5.00	5.66	5.41	113	108	66.0-132			4.52	20
Naphthalene	5.00	3.98	5.64	79.6	113	59.0-130		J3	34.5	20
n-Propylbenzene	5.00	4.49	4.88	89.8	97.6	74.0-126			8.32	20
Styrene	5.00	4.88	4.74	97.6	94.8	72.0-127			2.91	20
1,1,1,2-Tetrachloroethane	5.00	4.67	4.95	93.4	99.0	74.0-129			5.82	20
1,1,2,2-Tetrachloroethane	5.00	4.69	5.06	93.8	101	68.0-128			7.59	20
Tetrachloroethene	5.00	4.41	4.57	88.2	91.4	70.0-136			3.56	20
Tetrahydrofuran	5.00	9.27	7.16	185	143	37.0-146	J4	J3	25.7	24
Toluene	5.00	4.72	4.91	94.4	98.2	75.0-121			3.95	20
1,1,2-Trichlorotrifluoroethane	5.00	4.64	4.77	92.8	95.4	61.0-139			2.76	20
1,2,3-Trichlorobenzene	5.00	4.36	5.72	87.2	114	59.0-139		J3	27.0	20
1,2,4-Trichlorobenzene	5.00	4.78	5.98	95.6	120	62.0-137		J3	22.3	20
1,1,1-Trichloroethane	5.00	5.16	5.19	103	104	69.0-126			0.580	20
1,1,2-Trichloroethane	5.00	4.69	4.91	93.8	98.2	78.0-123			4.58	20
Trichloroethene	5.00	5.23	5.22	105	104	76.0-126			0.191	20
Trichlorofluoromethane	5.00	3.67	3.73	73.4	74.6	61.0-142			1.62	20
1,2,3-Trichloropropane	5.00	4.59	5.10	91.8	102	67.0-129			10.5	20
1,2,3-Trimethylbenzene	5.00	6.10	6.56	122	131	74.0-124		J4	7.27	20
1,2,4-Trimethylbenzene	5.00	4.94	5.22	98.8	104	70.0-126			5.51	20
1,3,5-Trimethylbenzene	5.00	4.79	5.30	95.8	106	73.0-127			10.1	20
Vinyl chloride	5.00	4.21	4.35	84.2	87.0	63.0-134			3.27	20
Xylenes, Total	15.0	14.8	13.2	98.7	88.0	72.0-127			11.4	20
Allyl chloride	25.0	27.5	27.9	110	112	70.0-131			1.44	20
(S) Toluene-d8				*94.2*	*99.4*	*75.0-131*				
(S) 4-Bromofluorobenzene				*108*	*102*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*98.4*	*93.3*	*70.0-130*				

Method Blank (MB)

(MB) R3667021-3 06/09/21 20:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0276	0.100
(S) Toluene-d8	*97.9*			*75.0-131*
(S) 4-Bromofluorobenzene	*103*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*94.6*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3667021-1 06/09/21 19:30 • (LCSD) R3667021-2 06/09/21 19:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	5.18	4.93	104	98.6	73.0-125			4.95	20
(S) Toluene-d8				*96.7*	*98.1*	*75.0-131*				
(S) 4-Bromofluorobenzene				*104*	*106*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*92.4*	*91.4*	*70.0-130*				

Method Blank (MB)

(MB) R3667022-3 06/09/21 20:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3667022-3 06/09/21 20:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*97.9*			*75.0-131*
(S) 4-Bromofluorobenzene	*103*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*94.6*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3667022-1 06/09/21 19:30 • (LCSD) R3667022-2 06/09/21 19:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	20.0	18.8	80.0	75.2	10.0-160			6.19	31
Acrylonitrile	25.0	28.9	26.1	116	104	45.0-153			10.2	22
Benzene	5.00	5.62	5.21	112	104	70.0-123			7.57	20
Bromobenzene	5.00	4.60	4.24	92.0	84.8	73.0-121			8.14	20
Bromodichloromethane	5.00	5.34	4.98	107	99.6	73.0-121			6.98	20
Bromoform	5.00	4.32	4.05	86.4	81.0	64.0-132			6.45	20
Bromomethane	5.00	3.74	3.53	74.8	70.6	56.0-147			5.78	20
n-Butylbenzene	5.00	4.96	4.88	99.2	97.6	68.0-135			1.63	20
sec-Butylbenzene	5.00	5.16	5.14	103	103	74.0-130			0.388	20
tert-Butylbenzene	5.00	5.26	5.15	105	103	75.0-127			2.11	20
Carbon tetrachloride	5.00	5.36	5.13	107	103	66.0-128			4.39	20
Chlorobenzene	5.00	4.72	4.47	94.4	89.4	76.0-128			5.44	20
Chlorodibromomethane	5.00	4.94	4.58	98.8	91.6	74.0-127			7.56	20
Chloroethane	5.00	4.30	4.20	86.0	84.0	61.0-134			2.35	20
Chloroform	5.00	5.11	4.81	102	96.2	72.0-123			6.05	20
Chloromethane	5.00	4.82	4.67	96.4	93.4	51.0-138			3.16	20
2-Chlorotoluene	5.00	5.11	4.95	102	99.0	75.0-124			3.18	20
4-Chlorotoluene	5.00	5.07	4.78	101	95.6	75.0-124			5.89	20
1,2-Dibromo-3-Chloropropane	5.00	4.64	4.25	92.8	85.0	59.0-130			8.77	20
1,2-Dibromoethane	5.00	4.93	4.57	98.6	91.4	74.0-128			7.58	20
Dibromomethane	5.00	4.89	4.51	97.8	90.2	75.0-122			8.09	20
1,2-Dichlorobenzene	5.00	4.97	4.74	99.4	94.8	76.0-124			4.74	20
1,3-Dichlorobenzene	5.00	4.82	4.55	96.4	91.0	76.0-125			5.76	20
1,4-Dichlorobenzene	5.00	4.73	4.52	94.6	90.4	77.0-121			4.54	20
trans-1,4-Dichloro-2-butene	5.00	5.55	4.95	111	99.0	45.0-143			11.4	20
Dichlorodifluoromethane	5.00	6.04	5.75	121	115	43.0-156			4.92	20
1,1-Dichloroethane	5.00	5.44	5.11	109	102	70.0-127			6.26	20
1,2-Dichloroethane	5.00	4.89	4.43	97.8	88.6	65.0-131			9.87	20
1,1-Dichloroethene	5.00	5.99	5.67	120	113	65.0-131			5.49	20
cis-1,2-Dichloroethene	5.00	5.18	4.93	104	98.6	73.0-125			4.95	20
trans-1,2-Dichloroethene	5.00	5.35	5.15	107	103	71.0-125			3.81	20
1,2-Dichloropropane	5.00	5.98	5.71	120	114	74.0-125			4.62	20
1,1-Dichloropropene	5.00	5.48	5.10	110	102	73.0-125			7.18	20
1,3-Dichloropropane	5.00	5.04	4.56	101	91.2	80.0-125			10.0	20
cis-1,3-Dichloropropene	5.00	5.54	5.12	111	102	76.0-127			7.88	20
trans-1,3-Dichloropropene	5.00	5.24	4.76	105	95.2	73.0-127			9.60	20
2,2-Dichloropropane	5.00	5.94	5.85	119	117	59.0-135			1.53	20
Di-isopropyl ether	5.00	6.65	6.22	133	124	60.0-136			6.68	20
Ethylbenzene	5.00	4.73	4.61	94.6	92.2	74.0-126			2.57	20
Ethyl ether	5.00	5.80	5.31	116	106	64.0-137			8.82	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3667022-1 06/09/21 19:30 • (LCSD) R3667022-2 06/09/21 19:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	4.99	4.78	99.8	95.6	57.0-150			4.30	20
Iodomethane	25.0	24.8	23.4	99.2	93.6	74.0-134			5.81	20
Isopropylbenzene	5.00	5.16	5.05	103	101	72.0-127			2.15	20
p-Isopropyltoluene	5.00	5.20	5.09	104	102	72.0-133			2.14	20
2-Butanone (MEK)	25.0	27.8	26.1	111	104	30.0-160			6.31	24
Methylene Chloride	5.00	5.24	4.75	105	95.0	68.0-123			9.81	20
4-Methyl-2-pentanone (MIBK)	25.0	27.4	25.4	110	102	56.0-143			7.58	20
Methyl tert-butyl ether	5.00	5.88	5.42	118	108	66.0-132			8.14	20
Naphthalene	5.00	4.63	4.42	92.6	88.4	59.0-130			4.64	20
n-Propylbenzene	5.00	4.96	4.83	99.2	96.6	74.0-126			2.66	20
Styrene	5.00	4.84	4.68	96.8	93.6	72.0-127			3.36	20
1,1,1,2-Tetrachloroethane	5.00	4.85	4.54	97.0	90.8	74.0-129			6.60	20
1,1,2,2-Tetrachloroethane	5.00	5.04	4.57	101	91.4	68.0-128			9.78	20
Tetrachloroethene	5.00	4.59	4.48	91.8	89.6	70.0-136			2.43	20
Tetrahydrofuran	5.00	6.99	3.16	140	63.2	37.0-146		J3	75.5	24
Toluene	5.00	4.96	4.68	99.2	93.6	75.0-121			5.81	20
1,1,2-Trichlorotrifluoroethane	5.00	5.22	4.96	104	99.2	61.0-139			5.11	20
1,2,3-Trichlorobenzene	5.00	4.62	4.30	92.4	86.0	59.0-139			7.17	20
1,2,4-Trichlorobenzene	5.00	5.35	5.09	107	102	62.0-137			4.98	20
1,1,1-Trichloroethane	5.00	5.21	5.13	104	103	69.0-126			1.55	20
1,1,2-Trichloroethane	5.00	4.96	4.63	99.2	92.6	78.0-123			6.88	20
Trichloroethene	5.00	5.43	5.31	109	106	76.0-126			2.23	20
Trichlorofluoromethane	5.00	4.13	3.98	82.6	79.6	61.0-142			3.70	20
1,2,3-Trichloropropane	5.00	5.13	4.72	103	94.4	67.0-129			8.32	20
1,2,3-Trimethylbenzene	5.00	6.33	6.11	127	122	74.0-124	J4		3.54	20
1,2,4-Trimethylbenzene	5.00	5.28	5.07	106	101	70.0-126			4.06	20
1,3,5-Trimethylbenzene	5.00	5.20	4.98	104	99.6	73.0-127			4.32	20
Vinyl chloride	5.00	4.71	4.54	94.2	90.8	63.0-134			3.68	20
Xylenes, Total	15.0	14.4	14.4	96.0	96.0	72.0-127			0.000	20
Allyl chloride	25.0	28.4	26.8	114	107	70.0-131			5.80	20
(S) Toluene-d8				*96.7*	*98.1*	*75.0-131*				
(S) 4-Bromofluorobenzene				*104*	*106*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*92.4*	*91.4*	*70.0-130*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.

Qualifier	Description
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

PES Environmental, Inc.- WA

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Seattle, WA 98161

Billing Information:
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1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;bhaldeman@pesenv.com;

Project Description: American Linen

City/State Collected: Seattle, WA

Please Circle: PT MT CT ET

Phone: 206-529-3980

Client Project # 1413.001.02.501I

Lab Project # PESENVSWA-ALP

Collected by (print): HRC/SPK

Site/Facility ID #

P.O. #

Collected by (signature): Hannah Colvin

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: STANDARD TAT

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,Cl,SO4 125mlHDPE-NoPres	ALK 125mlHDPE-NoPres	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	V8260ULLC 40mlAmb HCl	Remarks	Sample # (lab only)
MW-345-060121	Grab	GW	60	6/1/21	1230	9	X	X	X	X	X	X		-01
MW-349-060121		GW	64		1010	9	X	X	X	X	X	X		-02
MW-348-060121		GW	64		1210	9	X	X	X	X	X	X		-03
MW-344-060121		GW	45		1000	9	X	X	X	X	X	X		-04
MW-347-060121		GW	60		1345	9	X	X	X	X	X	X		-05
MW-350-060121		GW	65		1550	9	X	X	X	X	X	X		-06
EQ-060121		GW	—		1430	9	X	X	X	X	X	X		-07
		GW												
		GW												
		GW												

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1361280

Table #

Acctnum: PESENVSWA

Template: T170884

Prelogin: P788931

PM: 546 - Jared Starkey

PB:

Shipped Via: FedEX 2nd Day

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 9517 5748 8871

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Hannah Colvin	6/1/21	1630			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.7 °C Bottles Received: 8.0+1.8-1 63	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/3/21 Time: 0915	Hold: Condition: NCF / OK

L1361280 PESENVSWA NCF TD

Shortholds

Time estimate: oh **Time spent:** oh

Members

Troy Dunlap (responsible) JS Jared Starkey Jason Romer

- [x] Parameter(s) past holding time
- [x] Temperature not in range
- [ ] Improper container type
- [ ] pH not in range
- [ ] Insufficient sample volume
- [ ] Sample is biphasic
- [ ] Vials received with headspace
- [ ] Broken container
- [ ] Sufficient sample remains
- [ ] If broken container: Insufficient packing material around container
- [ ] If broken container: Insufficient packing material inside cooler
- [ ] If broken container: Improper handling by carrier:_____
- [ ] If broken container: Sample was frozen
- [ ] If broken container: Container lid not intact
- [ ] Client informed by Call
- [x] Client informed by Email
- [ ] Client informed by Voicemail
- [x] Date/Time:_____ 6/3/21 @ 1422
- [x] PM initials:_____ JCR
- [x] Client Contact:_____ Bill Haldeman

Comments

Troy Dunlap *3 June 2021 1:57 PM*

1.) Received out of temperature at 8.1°c.
2.) NITRATE samples are out of hold.

Jason Romer *3 June 2021 2:21 PM*

Run as received and qualify accordingly.

Troy Dunlap *4 June 2021 8:32 AM*

Done. Was logged yesterday. Forgot to answer the NCF.

ANALYTICAL REPORT

September 02, 2021

PES Environmental, Inc.- WA

Sample Delivery Group:	L1392298
Samples Received:	08/19/2021
Project Number:	1413.001.02501I
Description:	American Linen

Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:

Jason Romer
Project Manager

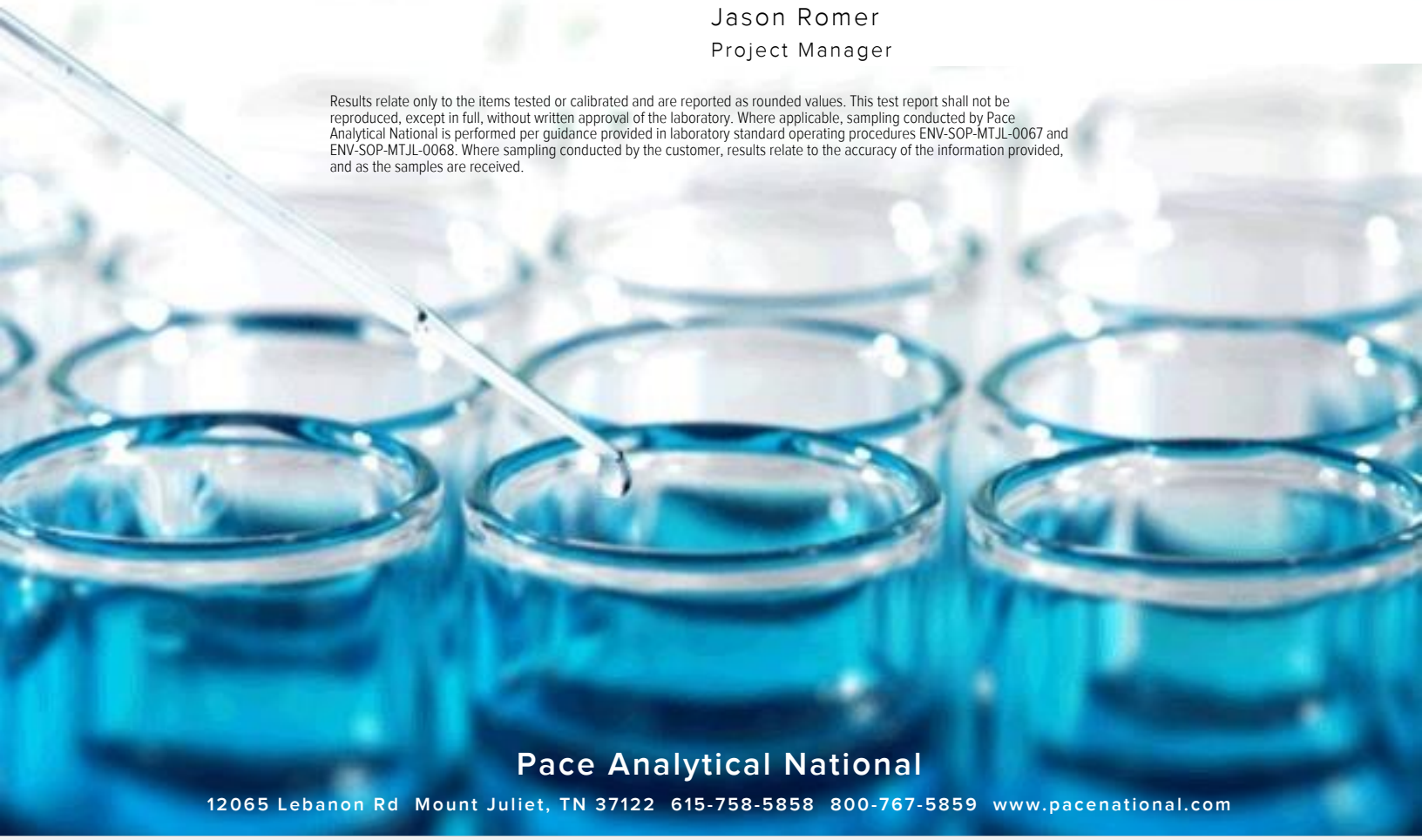

TABLE OF CONTENTS

HMW-20IA-081821 L1392298-01 GW

Collected by: Ben Hecht | Collected date/time: 08/18/21 09:40 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1728747	1	08/26/21 19:06	08/26/21 19:06	AMH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725975	1	08/19/21 20:11	08/19/21 20:11	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1727781	1	08/23/21 20:56	08/23/21 20:56	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1726248	1	08/24/21 09:47	08/24/21 15:00	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1726340	1	08/20/21 09:50	08/20/21 09:50	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1729390	500	08/26/21 04:37	08/26/21 04:37	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1730210	500	08/27/21 14:10	08/27/21 14:10	ACG	Mt. Juliet, TN

HMW-9IA-081821 L1392298-02 GW

Collected by: Ben Hecht | Collected date/time: 08/18/21 11:25 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1728747	1	08/26/21 19:09	08/26/21 19:09	AMH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725975	1	08/19/21 20:26	08/19/21 20:26	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1727781	1	08/23/21 20:43	08/23/21 20:43	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1726248	1	08/24/21 09:47	08/24/21 15:04	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1726340	1	08/20/21 09:55	08/20/21 09:55	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1729390	1	08/26/21 05:16	08/26/21 05:16	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1730210	1	08/27/21 12:55	08/27/21 12:55	ACG	Mt. Juliet, TN

HMW-9IB-081821 L1392298-03 GW

Collected by: Ben Hecht | Collected date/time: 08/18/21 12:55 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1728747	1	08/26/21 19:13	08/26/21 19:13	AMH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725975	1	08/19/21 21:11	08/19/21 21:11	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1727289	1	08/21/21 21:23	08/21/21 21:23	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1726248	1	08/24/21 09:47	08/24/21 15:07	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1726340	1	08/20/21 09:59	08/20/21 09:59	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1729390	100	08/26/21 04:56	08/26/21 04:56	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1730210	100	08/27/21 14:29	08/27/21 14:29	ACG	Mt. Juliet, TN

MW-350-081821 L1392298-04 GW

Collected by: Ben Hecht | Collected date/time: 08/18/21 14:55 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1728747	1	08/26/21 19:24	08/26/21 19:24	AMH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725975	1	08/19/21 21:26	08/19/21 21:26	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1727289	1	08/21/21 21:49	08/21/21 21:49	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1726248	1	08/24/21 09:47	08/24/21 15:26	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1726340	1	08/20/21 10:15	08/20/21 10:15	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1729390	1	08/25/21 23:28	08/25/21 23:28	BMB	Mt. Juliet, TN

TB-081821 L1392298-05 GW

Collected by: Ben Hecht | Collected date/time: 08/18/21 15:30 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1729390	1	08/25/21 23:08	08/25/21 23:08	BMB	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	335000		8450	20000	1	08/26/2021 19:06	WG1728747

Sample Narrative:

L1392298-01 WG1728747: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	37900		379	1000	1	08/19/2021 20:11	WG1725975
Nitrate	U		48.0	100	1	08/19/2021 20:11	WG1725975
Sulfate	27900		594	5000	1	08/19/2021 20:11	WG1725975

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2110	B	102	1000	1	08/23/2021 20:56	WG1727781

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	409		28.1	100	1	08/24/2021 15:00	WG1726248
Manganese	775		0.704	5.00	1	08/24/2021 15:00	WG1726248

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	2530		0.287	0.678	1	08/20/2021 09:50	WG1726340
Ethane	U		0.296	1.29	1	08/20/2021 09:50	WG1726340
Ethene	189		0.422	1.27	1	08/20/2021 09:50	WG1726340

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		274	500	500	08/26/2021 04:37	WG1729390
Acrylonitrile	U		38.0	250	500	08/26/2021 04:37	WG1729390
Benzene	U		8.00	20.0	500	08/26/2021 04:37	WG1729390
Bromobenzene	U		21.0	250	500	08/26/2021 04:37	WG1729390
Bromodichloromethane	U		15.8	50.0	500	08/26/2021 04:37	WG1729390
Bromoform	U		120	500	500	08/26/2021 04:37	WG1729390
Bromomethane	U		74.0	250	500	08/26/2021 04:37	WG1729390
n-Butylbenzene	U		76.5	250	500	08/26/2021 04:37	WG1729390
sec-Butylbenzene	U		50.5	250	500	08/26/2021 04:37	WG1729390
tert-Butylbenzene	U		31.0	100	500	08/26/2021 04:37	WG1729390
Carbon tetrachloride	U		21.6	100	500	08/26/2021 04:37	WG1729390
Chlorobenzene	U		11.5	50.0	500	08/26/2021 04:37	WG1729390
Chlorodibromomethane	U		9.00	50.0	500	08/26/2021 04:37	WG1729390
Chloroethane	U		21.6	100	500	08/26/2021 04:37	WG1729390
Chloroform	U		8.30	50.0	500	08/26/2021 04:37	WG1729390
Chloromethane	U		27.8	250	500	08/26/2021 04:37	WG1729390
2-Chlorotoluene	U		18.4	50.0	500	08/26/2021 04:37	WG1729390
4-Chlorotoluene	U		22.6	100	500	08/26/2021 04:37	WG1729390
1,2-Dibromo-3-Chloropropane	U		102	500	500	08/26/2021 04:37	WG1729390
1,2-Dibromoethane	U		10.5	50.0	500	08/26/2021 04:37	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		20.0	100	500	08/26/2021 04:37	WG1729390
1,2-Dichlorobenzene	U		29.0	100	500	08/26/2021 04:37	WG1729390
1,3-Dichlorobenzene	U		34.0	100	500	08/26/2021 04:37	WG1729390
1,4-Dichlorobenzene	U		39.4	100	500	08/26/2021 04:37	WG1729390
Dichlorodifluoromethane	U		16.4	50.0	500	08/26/2021 04:37	WG1729390
1,1-Dichloroethane	U		11.5	50.0	500	08/26/2021 04:37	WG1729390
1,2-Dichloroethane	U		9.50	50.0	500	08/26/2021 04:37	WG1729390
1,1-Dichloroethene	U		10.0	50.0	500	08/26/2021 04:37	WG1729390
cis-1,2-Dichloroethene	4660		13.8	50.0	500	08/26/2021 04:37	WG1729390
trans-1,2-Dichloroethene	U		28.6	100	500	08/26/2021 04:37	WG1729390
1,2-Dichloropropane	U		25.4	100	500	08/26/2021 04:37	WG1729390
1,1-Dichloropropene	U		14.0	50.0	500	08/26/2021 04:37	WG1729390
1,3-Dichloropropane	U		35.0	100	500	08/26/2021 04:37	WG1729390
cis-1,3-Dichloropropene	U		13.6	50.0	500	08/26/2021 04:37	WG1729390
trans-1,3-Dichloropropene	U		30.6	100	500	08/26/2021 04:37	WG1729390
2,2-Dichloropropane	U		15.9	50.0	500	08/26/2021 04:37	WG1729390
Di-isopropyl ether	U		7.00	20.0	500	08/26/2021 04:37	WG1729390
Ethylbenzene	U		10.6	50.0	500	08/26/2021 04:37	WG1729390
Hexachloro-1,3-butadiene	U		254	500	500	08/26/2021 04:37	WG1729390
Isopropylbenzene	U		17.2	50.0	500	08/26/2021 04:37	WG1729390
p-Isopropyltoluene	U		46.6	100	500	08/26/2021 04:37	WG1729390
2-Butanone (MEK)	U		250	500	500	08/26/2021 04:37	WG1729390
Methylene Chloride	U		133	500	500	08/26/2021 04:37	WG1729390
4-Methyl-2-pentanone (MIBK)	U		200	500	500	08/26/2021 04:37	WG1729390
Methyl tert-butyl ether	U		5.90	20.0	500	08/26/2021 04:37	WG1729390
Naphthalene	U		62.0	250	500	08/26/2021 04:37	WG1729390
n-Propylbenzene	U		23.6	100	500	08/26/2021 04:37	WG1729390
Styrene	U		54.5	250	500	08/26/2021 04:37	WG1729390
1,1,1,2-Tetrachloroethane	U		10.0	50.0	500	08/26/2021 04:37	WG1729390
1,1,2,2-Tetrachloroethane	U		7.80	50.0	500	08/26/2021 04:37	WG1729390
1,1,2-Trichlorotrifluoroethane	U		13.5	50.0	500	08/26/2021 04:37	WG1729390
Tetrachloroethene	U		14.0	50.0	500	08/27/2021 14:10	WG1730210
Toluene	U		25.0	100	500	08/26/2021 04:37	WG1729390
1,2,3-Trichlorobenzene	U		12.5	250	500	08/26/2021 04:37	WG1729390
1,2,4-Trichlorobenzene	U		96.5	250	500	08/26/2021 04:37	WG1729390
1,1,1-Trichloroethane	U		5.50	50.0	500	08/26/2021 04:37	WG1729390
1,1,2-Trichloroethane	U		17.7	50.0	500	08/26/2021 04:37	WG1729390
Trichloroethene	17.5	J	8.00	20.0	500	08/27/2021 14:10	WG1730210
Trichlorofluoromethane	U		10.0	50.0	500	08/26/2021 04:37	WG1729390
1,2,3-Trichloropropane	U		102	250	500	08/26/2021 04:37	WG1729390
1,2,4-Trimethylbenzene	U		23.2	100	500	08/26/2021 04:37	WG1729390
1,2,3-Trimethylbenzene	U		23.0	100	500	08/26/2021 04:37	WG1729390
1,3,5-Trimethylbenzene	U		21.6	100	500	08/26/2021 04:37	WG1729390
Vinyl chloride	3980		13.6	50.0	500	08/26/2021 04:37	WG1729390
Xylenes, Total	U		95.5	130	500	08/26/2021 04:37	WG1729390
Ethyl Ether	U		8.50	50.0	500	08/26/2021 04:37	WG1729390
Tetrahydrofuran	U		45.0	250	500	08/26/2021 04:37	WG1729390
Iodomethane	U		121	250	500	08/26/2021 04:37	WG1729390
Allyl chloride	U		290	500	500	08/26/2021 04:37	WG1729390
Trans-1,4-Dichloro-2-butene	U		28.0	100	500	08/26/2021 04:37	WG1729390
(S) Toluene-d8	*98.1*			*75.0-131*		*08/26/2021 04:37*	WG1729390
(S) Toluene-d8	*114*			*75.0-131*		*08/27/2021 14:10*	WG1730210
(S) 4-Bromofluorobenzene	*95.5*			*67.0-138*		*08/26/2021 04:37*	WG1729390
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*08/27/2021 14:10*	WG1730210
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*08/26/2021 04:37*	WG1729390
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*08/27/2021 14:10*	WG1730210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	

Sample Narrative:

L1392298-01 WG1729390: Target compounds too high to run at a lower dilution.

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	260000		8450	20000	1	08/26/2021 19:09	WG1728747

Sample Narrative:

L1392298-02 WG1728747: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	21900		379	1000	1	08/19/2021 20:26	WG1725975
Nitrate	U		48.0	100	1	08/19/2021 20:26	WG1725975
Sulfate	41000		594	5000	1	08/19/2021 20:26	WG1725975

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1060	B	102	1000	1	08/23/2021 20:43	WG1727781

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2060		28.1	100	1	08/24/2021 15:04	WG1726248
Manganese	765		0.704	5.00	1	08/24/2021 15:04	WG1726248

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	153		0.287	0.678	1	08/20/2021 09:55	WG1726340
Ethane	U		0.296	1.29	1	08/20/2021 09:55	WG1726340
Ethene	7.66		0.422	1.27	1	08/20/2021 09:55	WG1726340

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	08/26/2021 05:16	WG1729390
Acrylonitrile	U		0.0760	0.500	1	08/26/2021 05:16	WG1729390
Benzene	0.0510		0.0160	0.0400	1	08/26/2021 05:16	WG1729390
Bromobenzene	U		0.0420	0.500	1	08/26/2021 05:16	WG1729390
Bromodichloromethane	U		0.0315	0.100	1	08/26/2021 05:16	WG1729390
Bromoform	U		0.239	1.00	1	08/26/2021 05:16	WG1729390
Bromomethane	U		0.148	0.500	1	08/26/2021 05:16	WG1729390
n-Butylbenzene	U		0.153	0.500	1	08/26/2021 05:16	WG1729390
sec-Butylbenzene	U		0.101	0.500	1	08/26/2021 05:16	WG1729390
tert-Butylbenzene	U		0.0620	0.200	1	08/26/2021 05:16	WG1729390
Carbon tetrachloride	U		0.0432	0.200	1	08/26/2021 05:16	WG1729390
Chlorobenzene	U		0.0229	0.100	1	08/26/2021 05:16	WG1729390
Chlorodibromomethane	U		0.0180	0.100	1	08/26/2021 05:16	WG1729390
Chloroethane	U		0.0432	0.200	1	08/26/2021 05:16	WG1729390
Chloroform	U		0.0166	0.100	1	08/26/2021 05:16	WG1729390
Chloromethane	U		0.0556	0.500	1	08/26/2021 05:16	WG1729390
2-Chlorotoluene	U		0.0368	0.100	1	08/26/2021 05:16	WG1729390
4-Chlorotoluene	U		0.0452	0.200	1	08/26/2021 05:16	WG1729390
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	08/26/2021 05:16	WG1729390
1,2-Dibromoethane	U		0.0210	0.100	1	08/26/2021 05:16	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	08/26/2021 05:16	WG1729390
1,2-Dichlorobenzene	U		0.0580	0.200	1	08/26/2021 05:16	WG1729390
1,3-Dichlorobenzene	U		0.0680	0.200	1	08/26/2021 05:16	WG1729390
1,4-Dichlorobenzene	U		0.0788	0.200	1	08/26/2021 05:16	WG1729390
Dichlorodifluoromethane	U		0.0327	0.100	1	08/26/2021 05:16	WG1729390
1,1-Dichloroethane	U		0.0230	0.100	1	08/26/2021 05:16	WG1729390
1,2-Dichloroethane	0.154		0.0190	0.100	1	08/26/2021 05:16	WG1729390
1,1-Dichloroethene	0.100	J	0.0200	0.100	1	08/26/2021 05:16	WG1729390
cis-1,2-Dichloroethene	50.5		0.0276	0.100	1	08/26/2021 05:16	WG1729390
trans-1,2-Dichloroethene	0.0840	J	0.0572	0.200	1	08/26/2021 05:16	WG1729390
1,2-Dichloropropane	U		0.0508	0.200	1	08/26/2021 05:16	WG1729390
1,1-Dichloropropene	U		0.0280	0.100	1	08/26/2021 05:16	WG1729390
1,3-Dichloropropane	U		0.0700	0.200	1	08/26/2021 05:16	WG1729390
cis-1,3-Dichloropropene	U		0.0271	0.100	1	08/26/2021 05:16	WG1729390
trans-1,3-Dichloropropene	U		0.0612	0.200	1	08/26/2021 05:16	WG1729390
2,2-Dichloropropane	U		0.0317	0.100	1	08/26/2021 05:16	WG1729390
Di-isopropyl ether	0.173		0.0140	0.0400	1	08/26/2021 05:16	WG1729390
Ethylbenzene	U		0.0212	0.100	1	08/26/2021 05:16	WG1729390
Hexachloro-1,3-butadiene	U		0.508	1.00	1	08/26/2021 05:16	WG1729390
Isopropylbenzene	U		0.0345	0.100	1	08/26/2021 05:16	WG1729390
p-Isopropyltoluene	U		0.0932	0.200	1	08/26/2021 05:16	WG1729390
2-Butanone (MEK)	U		0.500	1.00	1	08/26/2021 05:16	WG1729390
Methylene Chloride	U		0.265	1.00	1	08/26/2021 05:16	WG1729390
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	08/26/2021 05:16	WG1729390
Methyl tert-butyl ether	U		0.0118	0.0400	1	08/26/2021 05:16	WG1729390
Naphthalene	U		0.124	0.500	1	08/26/2021 05:16	WG1729390
n-Propylbenzene	U		0.0472	0.200	1	08/26/2021 05:16	WG1729390
Styrene	U		0.109	0.500	1	08/26/2021 05:16	WG1729390
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	08/26/2021 05:16	WG1729390
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	08/26/2021 05:16	WG1729390
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	08/26/2021 05:16	WG1729390
Tetrachloroethene	0.100	J	0.0280	0.100	1	08/27/2021 12:55	WG1730210
Toluene	U		0.0500	0.200	1	08/26/2021 05:16	WG1729390
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	08/26/2021 05:16	WG1729390
1,2,4-Trichlorobenzene	U		0.193	0.500	1	08/26/2021 05:16	WG1729390
1,1,1-Trichloroethane	U		0.0110	0.100	1	08/26/2021 05:16	WG1729390
1,1,2-Trichloroethane	U		0.0353	0.100	1	08/26/2021 05:16	WG1729390
Trichloroethene	0.709		0.0160	0.0400	1	08/26/2021 05:16	WG1729390
Trichlorofluoromethane	U		0.0200	0.100	1	08/26/2021 05:16	WG1729390
1,2,3-Trichloropropane	U		0.204	0.500	1	08/26/2021 05:16	WG1729390
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	08/26/2021 05:16	WG1729390
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	08/26/2021 05:16	WG1729390
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	08/26/2021 05:16	WG1729390
Vinyl chloride	84.6		0.0273	0.100	1	08/26/2021 05:16	WG1729390
Xylenes, Total	U		0.191	0.260	1	08/26/2021 05:16	WG1729390
Ethyl Ether	U		0.0170	0.100	1	08/26/2021 05:16	WG1729390
Tetrahydrofuran	U		0.0900	0.500	1	08/26/2021 05:16	WG1729390
Iodomethane	U		0.242	0.500	1	08/26/2021 05:16	WG1729390
Allyl chloride	U		0.580	1.00	1	08/26/2021 05:16	WG1729390
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	08/26/2021 05:16	WG1729390
(S) Toluene-d8	*95.9*			*75.0-131*		*08/26/2021 05:16*	WG1729390
(S) Toluene-d8	*115*			*75.0-131*		*08/27/2021 12:55*	WG1730210
(S) 4-Bromofluorobenzene	*95.2*			*67.0-138*		*08/26/2021 05:16*	WG1729390
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*		*08/27/2021 12:55*	WG1730210
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*08/26/2021 05:16*	WG1729390
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*08/27/2021 12:55*	WG1730210

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	280000		8450	20000	1	08/26/2021 19:13	WG1728747

Sample Narrative:

L1392298-03 WG1728747: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	27600		379	1000	1	08/19/2021 21:11	WG1725975
Nitrate	U		48.0	100	1	08/19/2021 21:11	WG1725975
Sulfate	32300		594	5000	1	08/19/2021 21:11	WG1725975

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1870	B	102	1000	1	08/21/2021 21:23	WG1727289

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	682		28.1	100	1	08/24/2021 15:07	WG1726248
Manganese	578		0.704	5.00	1	08/24/2021 15:07	WG1726248

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2550		0.287	0.678	1	08/20/2021 09:59	WG1726340
Ethane	U		0.296	1.29	1	08/20/2021 09:59	WG1726340
Ethene	122		0.422	1.27	1	08/20/2021 09:59	WG1726340

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		54.8	100	100	08/26/2021 04:56	WG1729390
Acrylonitrile	U		7.60	50.0	100	08/26/2021 04:56	WG1729390
Benzene	U		1.60	4.00	100	08/26/2021 04:56	WG1729390
Bromobenzene	U		4.20	50.0	100	08/26/2021 04:56	WG1729390
Bromodichloromethane	U		3.15	10.0	100	08/26/2021 04:56	WG1729390
Bromoform	U		23.9	100	100	08/26/2021 04:56	WG1729390
Bromomethane	U		14.8	50.0	100	08/26/2021 04:56	WG1729390
n-Butylbenzene	U		15.3	50.0	100	08/26/2021 04:56	WG1729390
sec-Butylbenzene	U		10.1	50.0	100	08/26/2021 04:56	WG1729390
tert-Butylbenzene	U		6.20	20.0	100	08/26/2021 04:56	WG1729390
Carbon tetrachloride	U		4.32	20.0	100	08/26/2021 04:56	WG1729390
Chlorobenzene	U		2.29	10.0	100	08/26/2021 04:56	WG1729390
Chlorodibromomethane	U		1.80	10.0	100	08/26/2021 04:56	WG1729390
Chloroethane	U		4.32	20.0	100	08/26/2021 04:56	WG1729390
Chloroform	U		1.66	10.0	100	08/26/2021 04:56	WG1729390
Chloromethane	U		5.56	50.0	100	08/26/2021 04:56	WG1729390
2-Chlorotoluene	U		3.68	10.0	100	08/26/2021 04:56	WG1729390
4-Chlorotoluene	U		4.52	20.0	100	08/26/2021 04:56	WG1729390
1,2-Dibromo-3-Chloropropane	U		20.4	100	100	08/26/2021 04:56	WG1729390
1,2-Dibromoethane	U		2.10	10.0	100	08/26/2021 04:56	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		4.00	20.0	100	08/26/2021 04:56	WG1729390
1,2-Dichlorobenzene	U		5.80	20.0	100	08/26/2021 04:56	WG1729390
1,3-Dichlorobenzene	U		6.80	20.0	100	08/26/2021 04:56	WG1729390
1,4-Dichlorobenzene	U		7.88	20.0	100	08/26/2021 04:56	WG1729390
Dichlorodifluoromethane	U		3.27	10.0	100	08/26/2021 04:56	WG1729390
1,1-Dichloroethane	U		2.30	10.0	100	08/26/2021 04:56	WG1729390
1,2-Dichloroethane	U		1.90	10.0	100	08/26/2021 04:56	WG1729390
1,1-Dichloroethene	4.70	J	2.00	10.0	100	08/26/2021 04:56	WG1729390
cis-1,2-Dichloroethene	2990		2.76	10.0	100	08/26/2021 04:56	WG1729390
trans-1,2-Dichloroethene	6.20	J	5.72	20.0	100	08/26/2021 04:56	WG1729390
1,2-Dichloropropane	U		5.08	20.0	100	08/26/2021 04:56	WG1729390
1,1-Dichloropropene	U		2.80	10.0	100	08/26/2021 04:56	WG1729390
1,3-Dichloropropane	U		7.00	20.0	100	08/26/2021 04:56	WG1729390
cis-1,3-Dichloropropene	U		2.71	10.0	100	08/26/2021 04:56	WG1729390
trans-1,3-Dichloropropene	U		6.12	20.0	100	08/26/2021 04:56	WG1729390
2,2-Dichloropropane	U		3.17	10.0	100	08/26/2021 04:56	WG1729390
Di-isopropyl ether	U		1.40	4.00	100	08/26/2021 04:56	WG1729390
Ethylbenzene	U		2.12	10.0	100	08/26/2021 04:56	WG1729390
Hexachloro-1,3-butadiene	U		50.8	100	100	08/26/2021 04:56	WG1729390
Isopropylbenzene	U		3.45	10.0	100	08/26/2021 04:56	WG1729390
p-Isopropyltoluene	U		9.32	20.0	100	08/26/2021 04:56	WG1729390
2-Butanone (MEK)	U		50.0	100	100	08/26/2021 04:56	WG1729390
Methylene Chloride	U		26.5	100	100	08/26/2021 04:56	WG1729390
4-Methyl-2-pentanone (MIBK)	U		40.0	100	100	08/26/2021 04:56	WG1729390
Methyl tert-butyl ether	U		1.18	4.00	100	08/26/2021 04:56	WG1729390
Naphthalene	U		12.4	50.0	100	08/26/2021 04:56	WG1729390
n-Propylbenzene	U		4.72	20.0	100	08/26/2021 04:56	WG1729390
Styrene	U		10.9	50.0	100	08/26/2021 04:56	WG1729390
1,1,1,2-Tetrachloroethane	U		2.00	10.0	100	08/26/2021 04:56	WG1729390
1,1,2,2-Tetrachloroethane	U		1.56	10.0	100	08/26/2021 04:56	WG1729390
1,1,2-Trichlorotrifluoroethane	U		2.70	10.0	100	08/26/2021 04:56	WG1729390
Tetrachloroethene	16.4		2.80	10.0	100	08/27/2021 14:29	WG1730210
Toluene	U		5.00	20.0	100	08/26/2021 04:56	WG1729390
1,2,3-Trichlorobenzene	U		2.50	50.0	100	08/26/2021 04:56	WG1729390
1,2,4-Trichlorobenzene	U		19.3	50.0	100	08/26/2021 04:56	WG1729390
1,1,1-Trichloroethane	U		1.10	10.0	100	08/26/2021 04:56	WG1729390
1,1,2-Trichloroethane	U		3.53	10.0	100	08/26/2021 04:56	WG1729390
Trichloroethene	87.8		1.60	4.00	100	08/26/2021 04:56	WG1729390
Trichlorofluoromethane	U		2.00	10.0	100	08/26/2021 04:56	WG1729390
1,2,3-Trichloropropane	U		20.4	50.0	100	08/26/2021 04:56	WG1729390
1,2,4-Trimethylbenzene	U		4.64	20.0	100	08/26/2021 04:56	WG1729390
1,2,3-Trimethylbenzene	U		4.60	20.0	100	08/26/2021 04:56	WG1729390
1,3,5-Trimethylbenzene	U		4.32	20.0	100	08/26/2021 04:56	WG1729390
Vinyl chloride	1030		2.73	10.0	100	08/26/2021 04:56	WG1729390
Xylenes, Total	U		19.1	26.0	100	08/26/2021 04:56	WG1729390
Ethyl Ether	U		1.70	10.0	100	08/26/2021 04:56	WG1729390
Tetrahydrofuran	U		9.00	50.0	100	08/26/2021 04:56	WG1729390
Iodomethane	U		24.2	50.0	100	08/26/2021 04:56	WG1729390
Allyl chloride	U		58.0	100	100	08/26/2021 04:56	WG1729390
Trans-1,4-Dichloro-2-butene	U		5.60	20.0	100	08/26/2021 04:56	WG1729390
(S) Toluene-d8	*98.2*			*75.0-131*		*08/26/2021 04:56*	WG1729390
(S) Toluene-d8	*114*			*75.0-131*		*08/27/2021 14:29*	WG1730210
(S) 4-Bromofluorobenzene	*95.2*			*67.0-138*		*08/26/2021 04:56*	WG1729390
(S) 4-Bromofluorobenzene	*92.1*			*67.0-138*		*08/27/2021 14:29*	WG1730210
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*08/26/2021 04:56*	WG1729390
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*08/27/2021 14:29*	WG1730210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	

Sample Narrative:

L1392298-03 WG1729390: Target compounds too high to run at a lower dilution.

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	274000		8450	20000	1	08/26/2021 19:24	WG1728747

Sample Narrative:
L1392298-04 WG1728747: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	13700		379	1000	1	08/19/2021 21:26	WG1725975
Nitrate	U		48.0	100	1	08/19/2021 21:26	WG1725975
Sulfate	21000		594	5000	1	08/19/2021 21:26	WG1725975

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2190	B	102	1000	1	08/21/2021 21:49	WG1727289

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1540		28.1	100	1	08/24/2021 15:26	WG1726248
Manganese	318		0.704	5.00	1	08/24/2021 15:26	WG1726248

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	166		0.287	0.678	1	08/20/2021 10:15	WG1726340
Ethane	U		0.296	1.29	1	08/20/2021 10:15	WG1726340
Ethene	U		0.422	1.27	1	08/20/2021 10:15	WG1726340

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	08/25/2021 23:28	WG1729390
Acrylonitrile	U		0.0760	0.500	1	08/25/2021 23:28	WG1729390
Benzene	0.123		0.0160	0.0400	1	08/25/2021 23:28	WG1729390
Bromobenzene	U		0.0420	0.500	1	08/25/2021 23:28	WG1729390
Bromodichloromethane	U		0.0315	0.100	1	08/25/2021 23:28	WG1729390
Bromoform	U		0.239	1.00	1	08/25/2021 23:28	WG1729390
Bromomethane	U		0.148	0.500	1	08/25/2021 23:28	WG1729390
n-Butylbenzene	U		0.153	0.500	1	08/25/2021 23:28	WG1729390
sec-Butylbenzene	U		0.101	0.500	1	08/25/2021 23:28	WG1729390
tert-Butylbenzene	U		0.0620	0.200	1	08/25/2021 23:28	WG1729390
Carbon tetrachloride	U		0.0432	0.200	1	08/25/2021 23:28	WG1729390
Chlorobenzene	U		0.0229	0.100	1	08/25/2021 23:28	WG1729390
Chlorodibromomethane	U		0.0180	0.100	1	08/25/2021 23:28	WG1729390
Chloroethane	U		0.0432	0.200	1	08/25/2021 23:28	WG1729390
Chloroform	U		0.0166	0.100	1	08/25/2021 23:28	WG1729390
Chloromethane	U		0.0556	0.500	1	08/25/2021 23:28	WG1729390
2-Chlorotoluene	U		0.0368	0.100	1	08/25/2021 23:28	WG1729390
4-Chlorotoluene	U		0.0452	0.200	1	08/25/2021 23:28	WG1729390
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	08/25/2021 23:28	WG1729390
1,2-Dibromoethane	U		0.0210	0.100	1	08/25/2021 23:28	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	08/25/2021 23:28	WG1729390
1,2-Dichlorobenzene	U		0.0580	0.200	1	08/25/2021 23:28	WG1729390
1,3-Dichlorobenzene	U		0.0680	0.200	1	08/25/2021 23:28	WG1729390
1,4-Dichlorobenzene	U		0.0788	0.200	1	08/25/2021 23:28	WG1729390
Dichlorodifluoromethane	U		0.0327	0.100	1	08/25/2021 23:28	WG1729390
1,1-Dichloroethane	U		0.0230	0.100	1	08/25/2021 23:28	WG1729390
1,2-Dichloroethane	U		0.0190	0.100	1	08/25/2021 23:28	WG1729390
1,1-Dichloroethene	U		0.0200	0.100	1	08/25/2021 23:28	WG1729390
cis-1,2-Dichloroethene	0.149		0.0276	0.100	1	08/25/2021 23:28	WG1729390
trans-1,2-Dichloroethene	U		0.0572	0.200	1	08/25/2021 23:28	WG1729390
1,2-Dichloropropane	U		0.0508	0.200	1	08/25/2021 23:28	WG1729390
1,1-Dichloropropene	U		0.0280	0.100	1	08/25/2021 23:28	WG1729390
1,3-Dichloropropane	U		0.0700	0.200	1	08/25/2021 23:28	WG1729390
cis-1,3-Dichloropropene	U		0.0271	0.100	1	08/25/2021 23:28	WG1729390
trans-1,3-Dichloropropene	U		0.0612	0.200	1	08/25/2021 23:28	WG1729390
2,2-Dichloropropane	U		0.0317	0.100	1	08/25/2021 23:28	WG1729390
Di-isopropyl ether	U		0.0140	0.0400	1	08/25/2021 23:28	WG1729390
Ethylbenzene	0.690		0.0212	0.100	1	08/25/2021 23:28	WG1729390
Hexachloro-1,3-butadiene	U		0.508	1.00	1	08/25/2021 23:28	WG1729390
Isopropylbenzene	0.177		0.0345	0.100	1	08/25/2021 23:28	WG1729390
p-Isopropyltoluene	0.141	J	0.0932	0.200	1	08/25/2021 23:28	WG1729390
2-Butanone (MEK)	U		0.500	1.00	1	08/25/2021 23:28	WG1729390
Methylene Chloride	U		0.265	1.00	1	08/25/2021 23:28	WG1729390
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	08/25/2021 23:28	WG1729390
Methyl tert-butyl ether	U		0.0118	0.0400	1	08/25/2021 23:28	WG1729390
Naphthalene	0.321	J	0.124	0.500	1	08/25/2021 23:28	WG1729390
n-Propylbenzene	0.316		0.0472	0.200	1	08/25/2021 23:28	WG1729390
Styrene	U		0.109	0.500	1	08/25/2021 23:28	WG1729390
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	08/25/2021 23:28	WG1729390
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	08/25/2021 23:28	WG1729390
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	08/25/2021 23:28	WG1729390
Tetrachloroethene	U		0.0280	0.100	1	08/25/2021 23:28	WG1729390
Toluene	0.840		0.0500	0.200	1	08/25/2021 23:28	WG1729390
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	08/25/2021 23:28	WG1729390
1,2,4-Trichlorobenzene	U		0.193	0.500	1	08/25/2021 23:28	WG1729390
1,1,1-Trichloroethane	U		0.0110	0.100	1	08/25/2021 23:28	WG1729390
1,1,2-Trichloroethane	U		0.0353	0.100	1	08/25/2021 23:28	WG1729390
Trichloroethene	U		0.0160	0.0400	1	08/25/2021 23:28	WG1729390
Trichlorofluoromethane	U		0.0200	0.100	1	08/25/2021 23:28	WG1729390
1,2,3-Trichloropropane	U		0.204	0.500	1	08/25/2021 23:28	WG1729390
1,2,4-Trimethylbenzene	2.10		0.0464	0.200	1	08/25/2021 23:28	WG1729390
1,2,3-Trimethylbenzene	1.24		0.0460	0.200	1	08/25/2021 23:28	WG1729390
1,3,5-Trimethylbenzene	0.830		0.0432	0.200	1	08/25/2021 23:28	WG1729390
Vinyl chloride	0.573		0.0273	0.100	1	08/25/2021 23:28	WG1729390
Xylenes, Total	3.42		0.191	0.260	1	08/25/2021 23:28	WG1729390
Ethyl Ether	U		0.0170	0.100	1	08/25/2021 23:28	WG1729390
Tetrahydrofuran	U		0.0900	0.500	1	08/25/2021 23:28	WG1729390
Iodomethane	U		0.242	0.500	1	08/25/2021 23:28	WG1729390
Allyl chloride	U		0.580	1.00	1	08/25/2021 23:28	WG1729390
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	08/25/2021 23:28	WG1729390
(S) Toluene-d8	*99.3*			*75.0-131*		*08/25/2021 23:28*	WG1729390
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*		*08/25/2021 23:28*	WG1729390
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*		*08/25/2021 23:28*	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		0.548	1.00	1	08/25/2021 23:08	WG1729390
Acrylonitrile	U		0.0760	0.500	1	08/25/2021 23:08	WG1729390
Benzene	U		0.0160	0.0400	1	08/25/2021 23:08	WG1729390
Bromobenzene	U		0.0420	0.500	1	08/25/2021 23:08	WG1729390
Bromodichloromethane	U		0.0315	0.100	1	08/25/2021 23:08	WG1729390
Bromoform	U		0.239	1.00	1	08/25/2021 23:08	WG1729390
Bromomethane	U		0.148	0.500	1	08/25/2021 23:08	WG1729390
n-Butylbenzene	U		0.153	0.500	1	08/25/2021 23:08	WG1729390
sec-Butylbenzene	U		0.101	0.500	1	08/25/2021 23:08	WG1729390
tert-Butylbenzene	U		0.0620	0.200	1	08/25/2021 23:08	WG1729390
Carbon tetrachloride	U		0.0432	0.200	1	08/25/2021 23:08	WG1729390
Chlorobenzene	U		0.0229	0.100	1	08/25/2021 23:08	WG1729390
Chlorodibromomethane	U		0.0180	0.100	1	08/25/2021 23:08	WG1729390
Chloroethane	U		0.0432	0.200	1	08/25/2021 23:08	WG1729390
Chloroform	U		0.0166	0.100	1	08/25/2021 23:08	WG1729390
Chloromethane	U		0.0556	0.500	1	08/25/2021 23:08	WG1729390
2-Chlorotoluene	U		0.0368	0.100	1	08/25/2021 23:08	WG1729390
4-Chlorotoluene	U		0.0452	0.200	1	08/25/2021 23:08	WG1729390
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	08/25/2021 23:08	WG1729390
1,2-Dibromoethane	U		0.0210	0.100	1	08/25/2021 23:08	WG1729390
Dibromomethane	U		0.0400	0.200	1	08/25/2021 23:08	WG1729390
1,2-Dichlorobenzene	U		0.0580	0.200	1	08/25/2021 23:08	WG1729390
1,3-Dichlorobenzene	U		0.0680	0.200	1	08/25/2021 23:08	WG1729390
1,4-Dichlorobenzene	U		0.0788	0.200	1	08/25/2021 23:08	WG1729390
Dichlorodifluoromethane	U		0.0327	0.100	1	08/25/2021 23:08	WG1729390
1,1-Dichloroethane	U		0.0230	0.100	1	08/25/2021 23:08	WG1729390
1,2-Dichloroethane	U		0.0190	0.100	1	08/25/2021 23:08	WG1729390
1,1-Dichloroethene	U		0.0200	0.100	1	08/25/2021 23:08	WG1729390
cis-1,2-Dichloroethene	U		0.0276	0.100	1	08/25/2021 23:08	WG1729390
trans-1,2-Dichloroethene	U		0.0572	0.200	1	08/25/2021 23:08	WG1729390
1,2-Dichloropropane	U		0.0508	0.200	1	08/25/2021 23:08	WG1729390
1,1-Dichloropropene	U		0.0280	0.100	1	08/25/2021 23:08	WG1729390
1,3-Dichloropropane	U		0.0700	0.200	1	08/25/2021 23:08	WG1729390
cis-1,3-Dichloropropene	U		0.0271	0.100	1	08/25/2021 23:08	WG1729390
trans-1,3-Dichloropropene	U		0.0612	0.200	1	08/25/2021 23:08	WG1729390
2,2-Dichloropropane	U		0.0317	0.100	1	08/25/2021 23:08	WG1729390
Di-isopropyl ether	U		0.0140	0.0400	1	08/25/2021 23:08	WG1729390
Ethylbenzene	U		0.0212	0.100	1	08/25/2021 23:08	WG1729390
Hexachloro-1,3-butadiene	U		0.508	1.00	1	08/25/2021 23:08	WG1729390
Isopropylbenzene	U		0.0345	0.100	1	08/25/2021 23:08	WG1729390
p-Isopropyltoluene	U		0.0932	0.200	1	08/25/2021 23:08	WG1729390
2-Butanone (MEK)	U		0.500	1.00	1	08/25/2021 23:08	WG1729390
Methylene Chloride	U		0.265	1.00	1	08/25/2021 23:08	WG1729390
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	08/25/2021 23:08	WG1729390
Methyl tert-butyl ether	U		0.0118	0.0400	1	08/25/2021 23:08	WG1729390
Naphthalene	U		0.124	0.500	1	08/25/2021 23:08	WG1729390
n-Propylbenzene	U		0.0472	0.200	1	08/25/2021 23:08	WG1729390
Styrene	U		0.109	0.500	1	08/25/2021 23:08	WG1729390
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	08/25/2021 23:08	WG1729390
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	08/25/2021 23:08	WG1729390
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	08/25/2021 23:08	WG1729390
Tetrachloroethene	U		0.0280	0.100	1	08/25/2021 23:08	WG1729390
Toluene	U		0.0500	0.200	1	08/25/2021 23:08	WG1729390
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	08/25/2021 23:08	WG1729390
1,2,4-Trichlorobenzene	U		0.193	0.500	1	08/25/2021 23:08	WG1729390
1,1,1-Trichloroethane	U		0.0110	0.100	1	08/25/2021 23:08	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,2-Trichloroethane	U		0.0353	0.100	1	08/25/2021 23:08	WG1729390
Trichloroethene	U		0.0160	0.0400	1	08/25/2021 23:08	WG1729390
Trichlorofluoromethane	U		0.0200	0.100	1	08/25/2021 23:08	WG1729390
1,2,3-Trichloropropane	U		0.204	0.500	1	08/25/2021 23:08	WG1729390
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	08/25/2021 23:08	WG1729390
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	08/25/2021 23:08	WG1729390
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	08/25/2021 23:08	WG1729390
Vinyl chloride	U		0.0273	0.100	1	08/25/2021 23:08	WG1729390
Xylenes, Total	U		0.191	0.260	1	08/25/2021 23:08	WG1729390
Ethyl Ether	U		0.0170	0.100	1	08/25/2021 23:08	WG1729390
Tetrahydrofuran	U		0.0900	0.500	1	08/25/2021 23:08	WG1729390
Iodomethane	U		0.242	0.500	1	08/25/2021 23:08	WG1729390
Allyl chloride	U		0.580	1.00	1	08/25/2021 23:08	WG1729390
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	08/25/2021 23:08	WG1729390
(S) Toluene-d8	*97.4*			*75.0-131*		*08/25/2021 23:08*	WG1729390
(S) 4-Bromofluorobenzene	*97.1*			*67.0-138*		*08/25/2021 23:08*	WG1729390
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*08/25/2021 23:08*	WG1729390

Method Blank (MB)

(MB) R3697048-2 08/26/21 17:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1392102-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1392102-02 08/26/21 17:49 • (DUP) R3697048-3 08/26/21 17:54

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	3850000	3860000	5	0.454		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1392241-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1392241-01 08/26/21 18:43 • (DUP) R3697048-4 08/26/21 18:47

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	127000	129000	1	1.23		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3697048-1 08/26/21 17:30

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	104000	104	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3695577-1 08/19/21 12:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

L1392267-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1392267-01 08/19/21 16:42 • (DUP) R3695577-5 08/19/21 16:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	86800	86800	1	0.0177		15
Nitrate	1970	1970	1	0.0914		15
Sulfate	36000	36000	1	0.0800		15

L1392302-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1392302-01 08/19/21 22:41 • (DUP) R3695577-10 08/19/21 22:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	46000	45600	1	0.894		15
Nitrate	U	U	1	0.000		15
Sulfate	47900	47700	1	0.416		15

Laboratory Control Sample (LCS)

(LCS) R3695577-2 08/19/21 12:53

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	40000	100	80.0-120	
Nitrate	8000	8190	102	80.0-120	
Sulfate	40000	39700	99.3	80.0-120	

L1392241-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392241-01 08/19/21 15:43 • (MS) R3695577-3 08/19/21 15:57 • (MSD) R3695577-4 08/19/21 16:12

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	96800	144000	144000	94.8	94.5	1	80.0-120	E	E	0.0938	15
Nitrate	5000	102	5110	5110	100	100	1	80.0-120			0.00587	15
Sulfate	50000	233000	269000	269000	70.4	70.9	1	80.0-120	E V	E V	0.0963	15

L1392267-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392267-01 08/19/21 16:42 • (MS) R3695577-6 08/19/21 17:12 • (MSD) R3695577-7 08/19/21 17:27

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	86800	135000	135000	96.0	96.3	1	80.0-120	E	E	0.0944	15
Nitrate	5000	1970	7410	7410	109	109	1	80.0-120			0.0216	15
Sulfate	50000	36000	87700	87800	103	104	1	80.0-120			0.0888	15

L1392272-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392272-01 08/19/21 18:26 • (MS) R3695577-8 08/19/21 18:56 • (MSD) R3695577-9 08/19/21 19:11

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	43000000	41200000	41100000	0.000	0.000	100	80.0-120	E V	E V	0.409	15
Nitrate	5000	11500	12400	12500	17.5	18.9	100	80.0-120	J6	J6	0.563	15
Sulfate	50000	171000	203000	202000	63.2	61.6	100	80.0-120	J6	J6	0.394	15

Sample Narrative:

OS: dilution due to sample matrix

Method Blank (MB)

(MB) R3695118-2 08/21/21 16:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	232	J	102	1000

L1392298-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1392298-03 08/21/21 21:23 • (DUP) R3695118-7 08/21/21 21:36

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1870	1720	1	8.51		20

Laboratory Control Sample (LCS)

(LCS) R3695118-1 08/21/21 15:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	75800	101	85.0-115	

L1392162-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392162-06 08/21/21 17:44 • (MS) R3695118-3 08/21/21 18:05 • (MSD) R3695118-4 08/21/21 18:22

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	2570	51500	52700	97.8	100	1	80.0-120			2.34	20

L1392241-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392241-01 08/21/21 19:34 • (MS) R3695118-5 08/21/21 19:52 • (MSD) R3695118-6 08/21/21 20:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	2510	56100	52100	107	99.2	1	80.0-120			7.41	20

Method Blank (MB)

(MB) R3695572-2 08/23/21 12:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	291	J	102	1000

Laboratory Control Sample (LCS)

(LCS) R3695572-1 08/23/21 12:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	77700	104	85.0-115	

Method Blank (MB)

(MB) R3695894-1 08/24/21 14:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Iron	U		28.1	100
Manganese	U		0.704	5.00

Laboratory Control Sample (LCS)

(LCS) R3695894-2 08/24/21 14:39

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	5020	100	80.0-120	
Manganese	50.0	50.9	102	80.0-120	

L1392267-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392267-01 08/24/21 14:42 • (MS) R3695894-4 08/24/21 14:49 • (MSD) R3695894-5 08/24/21 14:53

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	5000	91.1	4970	5070	97.5	99.5	1	75.0-125			2.03	20
Manganese	50.0	2.44	51.1	50.9	97.3	96.9	1	75.0-125			0.333	20

Method Blank (MB)

(MB) R3694403-2 08/20/21 08:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1392399-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1392399-01 08/20/21 09:05 • (DUP) R3694403-3 08/20/21 10:19

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	2860	2680	1	6.50		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1392307-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1392307-02 08/20/21 10:40 • (DUP) R3694403-4 08/20/21 11:07

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	349	329	1	5.90		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3694403-1 08/20/21 08:47 • (LCSD) R3694403-5 08/20/21 11:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methane	67.8	62.8	60.2	92.6	88.8	85.0-115			4.23	20
Ethane	129	119	116	92.2	89.9	85.0-115			2.55	20
Ethene	127	119	116	93.7	91.3	85.0-115			2.55	20

Method Blank (MB)

(MB) R3696881-3 08/25/21 21:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3696881-3 08/25/21 21:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*96.9*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3696881-1 08/25/21 20:33 • (LCSD) R3696881-2 08/25/21 20:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	23.3	22.9	93.2	91.6	10.0-160			1.73	31
Acrylonitrile	25.0	22.7	23.3	90.8	93.2	45.0-153			2.61	22
Benzene	5.00	4.83	4.85	96.6	97.0	70.0-123			0.413	20
Bromobenzene	5.00	5.13	5.11	103	102	73.0-121			0.391	20
Bromodichloromethane	5.00	4.99	5.00	99.8	100	73.0-121			0.200	20
Bromoform	5.00	4.66	4.84	93.2	96.8	64.0-132			3.79	20
Bromomethane	5.00	5.07	4.95	101	99.0	56.0-147			2.40	20
n-Butylbenzene	5.00	4.98	5.07	99.6	101	68.0-135			1.79	20
sec-Butylbenzene	5.00	5.10	5.08	102	102	74.0-130			0.393	20
tert-Butylbenzene	5.00	5.22	5.15	104	103	75.0-127			1.35	20
Carbon tetrachloride	5.00	4.92	5.02	98.4	100	66.0-128			2.01	20
Chlorobenzene	5.00	5.09	5.23	102	105	76.0-128			2.71	20
Chlorodibromomethane	5.00	4.98	5.00	99.6	100	74.0-127			0.401	20
Chloroethane	5.00	4.52	4.69	90.4	93.8	61.0-134			3.69	20
Chloroform	5.00	4.96	5.10	99.2	102	72.0-123			2.78	20
Chloromethane	5.00	4.60	4.69	92.0	93.8	51.0-138			1.94	20
2-Chlorotoluene	5.00	4.97	5.20	99.4	104	75.0-124			4.52	20
4-Chlorotoluene	5.00	4.87	4.93	97.4	98.6	75.0-124			1.22	20
1,2-Dibromo-3-Chloropropane	5.00	4.82	4.90	96.4	98.0	59.0-130			1.65	20
1,2-Dibromoethane	5.00	5.18	5.09	104	102	74.0-128			1.75	20
Dibromomethane	5.00	4.73	4.90	94.6	98.0	75.0-122			3.53	20
1,2-Dichlorobenzene	5.00	4.83	4.94	96.6	98.8	76.0-124			2.25	20
1,3-Dichlorobenzene	5.00	5.05	5.21	101	104	76.0-125			3.12	20
1,4-Dichlorobenzene	5.00	5.12	5.14	102	103	77.0-121			0.390	20
trans-1,4-Dichloro-2-butene	5.00	4.57	4.60	91.4	92.0	45.0-143			0.654	20
Dichlorodifluoromethane	5.00	4.46	4.80	89.2	96.0	43.0-156			7.34	20
1,1-Dichloroethane	5.00	4.94	4.95	98.8	99.0	70.0-127			0.202	20
1,2-Dichloroethane	5.00	4.99	5.00	99.8	100	65.0-131			0.200	20
1,1-Dichloroethene	5.00	5.21	5.37	104	107	65.0-131			3.02	20
cis-1,2-Dichloroethene	5.00	4.99	5.14	99.8	103	73.0-125			2.96	20
trans-1,2-Dichloroethene	5.00	5.07	5.30	101	106	71.0-125			4.44	20
1,2-Dichloropropane	5.00	5.31	5.15	106	103	74.0-125			3.06	20
1,1-Dichloropropene	5.00	5.02	5.00	100	100	73.0-125			0.399	20
1,3-Dichloropropane	5.00	5.01	5.13	100	103	80.0-125			2.37	20
cis-1,3-Dichloropropene	5.00	5.06	4.92	101	98.4	76.0-127			2.81	20
trans-1,3-Dichloropropene	5.00	4.73	4.94	94.6	98.8	73.0-127			4.34	20
2,2-Dichloropropane	5.00	4.48	4.49	89.6	89.8	59.0-135			0.223	20
Di-isopropyl ether	5.00	4.83	5.01	96.6	100	60.0-136			3.66	20
Ethylbenzene	5.00	4.92	5.09	98.4	102	74.0-126			3.40	20
Ethyl ether	5.00	4.80	4.88	96.0	97.6	64.0-137			1.65	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3696881-1 08/25/21 20:33 • (LCSD) R3696881-2 08/25/21 20:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	5.18	5.39	104	108	57.0-150			3.97	20
Iodomethane	25.0	25.9	26.3	104	105	74.0-134			1.53	20
Isopropylbenzene	5.00	4.99	5.10	99.8	102	72.0-127			2.18	20
p-Isopropyltoluene	5.00	4.99	5.08	99.8	102	72.0-133			1.79	20
2-Butanone (MEK)	25.0	24.4	24.8	97.6	99.2	30.0-160			1.63	24
Methylene Chloride	5.00	4.97	5.11	99.4	102	68.0-123			2.78	20
4-Methyl-2-pentanone (MIBK)	25.0	24.7	25.0	98.8	100	56.0-143			1.21	20
Methyl tert-butyl ether	5.00	4.61	4.68	92.2	93.6	66.0-132			1.51	20
Naphthalene	5.00	4.66	5.00	93.2	100	59.0-130			7.04	20
n-Propylbenzene	5.00	4.94	4.99	98.8	99.8	74.0-126			1.01	20
Styrene	5.00	5.16	5.19	103	104	72.0-127			0.580	20
1,1,1,2-Tetrachloroethane	5.00	4.88	5.05	97.6	101	74.0-129			3.42	20
1,1,2,2-Tetrachloroethane	5.00	4.62	4.58	92.4	91.6	68.0-128			0.870	20
Tetrachloroethene	5.00	5.22	5.27	104	105	70.0-136			0.953	20
Tetrahydrofuran	5.00	4.73	4.75	94.6	95.0	37.0-146			0.422	24
Toluene	5.00	4.99	4.96	99.8	99.2	75.0-121			0.603	20
1,1,2-Trichlorotrifluoroethane	5.00	4.66	4.87	93.2	97.4	61.0-139			4.41	20
1,2,3-Trichlorobenzene	5.00	5.04	5.19	101	104	59.0-139			2.93	20
1,2,4-Trichlorobenzene	5.00	4.97	5.32	99.4	106	62.0-137			6.80	20
1,1,1-Trichloroethane	5.00	5.19	5.28	104	106	69.0-126			1.72	20
1,1,2-Trichloroethane	5.00	5.05	5.17	101	103	78.0-123			2.35	20
Trichloroethene	5.00	5.66	5.51	113	110	76.0-126			2.69	20
Trichlorofluoromethane	5.00	4.72	4.88	94.4	97.6	61.0-142			3.33	20
1,2,3-Trichloropropane	5.00	5.01	5.09	100	102	67.0-129			1.58	20
1,2,3-Trimethylbenzene	5.00	4.97	4.80	99.4	96.0	74.0-124			3.48	20
1,2,4-Trimethylbenzene	5.00	5.00	5.00	100	100	70.0-126			0.000	20
1,3,5-Trimethylbenzene	5.00	5.13	5.07	103	101	73.0-127			1.18	20
Vinyl chloride	5.00	4.90	4.92	98.0	98.4	63.0-134			0.407	20
Xylenes, Total	15.0	15.5	15.7	103	105	72.0-127			1.28	20
Allyl chloride	25.0	24.9	25.7	99.6	103	70.0-131			3.16	20
(S) Toluene-d8				*97.5*	*98.9*	*75.0-131*				
(S) 4-Bromofluorobenzene				*95.7*	*98.7*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*97.6*	*99.4*	*70.0-130*				

Method Blank (MB)

(MB) R3697407-2 08/27/21 11:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Tetrachloroethene	U		0.0280	0.100
Trichloroethene	U		0.0160	0.0400
(S) Toluene-d8	*111*			*75.0-131*
(S) 4-Bromofluorobenzene	*86.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3697407-1 08/27/21 10:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Tetrachloroethene	5.00	5.03	101	70.0-136	
Trichloroethene	5.00	4.38	87.6	76.0-126	
(S) Toluene-d8			*116*	*75.0-131*	
(S) 4-Bromofluorobenzene			*91.5*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: PES Environmental	Billing Information: Accounts payable to 2101 4th Ave Ste 1310 Seattle, WA 98121
Address: 2101 4th Ave, Ste 1310	
Report To: B. Halderman / B. Oneal	Email To: BHalderman@pesenv.com, BOneal@pesenv.com, shalderman@pesenv.com
Copy To:	Site Collection Info/Address: 700 Dexter Ave
Customer Project Name/Number: Amazon Lum 1413.001.02.501I	State: WA County/City: Seattle Time Zone Collected: [✓]PT [ ]MT [ ]CT [ ]ET
Phone: 206-529-3980 Email:	Site/Facility ID #:
Collected By (print): Ben Hecht	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required:
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day Standard
	Compliance Monitoring? [ ] Yes [ ] No
	DW PWS ID #: DW Location Code:
	Immediately Packed on Ice: [ ] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [✓] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	VOC (8260)	AIK (2320 B)	Chloride, nitrate, sulfate (9056A)	TOC (9060A)	Total Fe, Mn (6020B)	RSK 175	Analyses	Lab Sample # / Comments
MW-20IA-081821	GW	Grab	8-18-21	~~11:20~~		9:40		9	P/G	X	X	X	X	X	X		UJ92298-01
MW-9IA-081821				~~12:20~~ (SH)		11:25		9		X	X	X	X	X	X		-02
MW-9IB-081821				~~13:55~~		12:55		9		X	X	X	X	X	X		-03
MW-350-081821	V			~~14~~		14:55		9		X	X	X	X	X	X		-04
TB-081821	AQ	-				15:30		1		X							-05

Lab Profile/Line:

Lab Sample Receipt Checklist:			
Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: A3

Cooler 1 Temp Upon Receipt: 1.4 oC

Cooler 1 Therm Corr. Factor: 0.0 oC

Cooler 1 Corrected Temp: 1.4 oC

Comments:

Relinquished by/Company: (Signature) PES Env.	Date/Time: 8-18-21 @ 1545	Received by/Company: (Signature)	Date/Time: 8/19/21 9:00
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

K192

Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other 1

Non Conformance(s): YES / NO

Page: 2 of: 2

ANALYTICAL REPORT

August 27, 2021

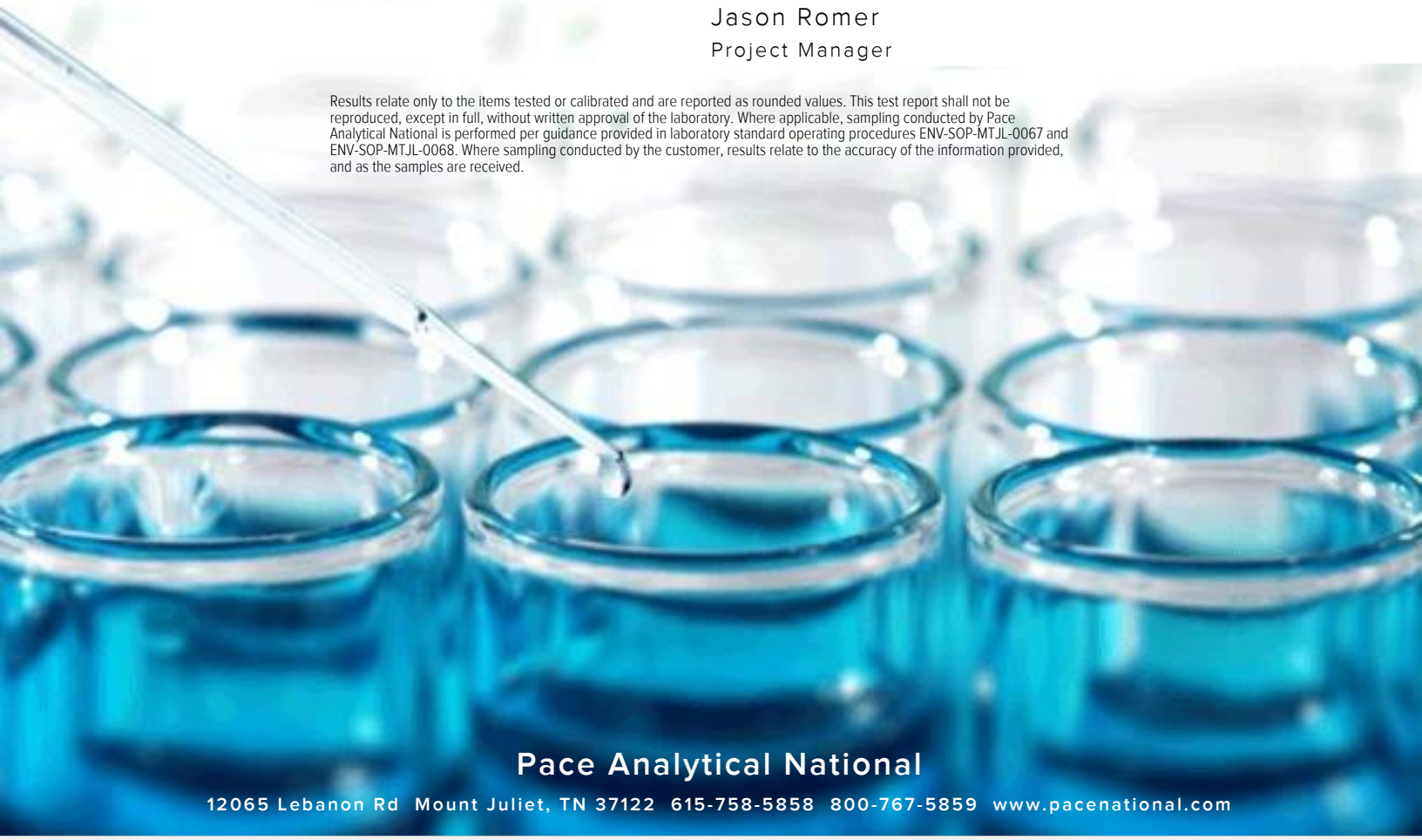
PES Environmental, Inc.- WA

Sample Delivery Group:	L1392302
Samples Received:	08/19/2021
Project Number:	1413.001.02501I
Description:	American Linen

Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:

Jason Romer
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-345-081821 L1392302-01 GW

Collected by: HRC | Collected date/time: 08/18/21 10:40 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1728747	1	08/26/21 19:28	08/26/21 19:28	AMH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725975	1	08/19/21 22:41	08/19/21 22:41	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1727289	1	08/21/21 22:02	08/21/21 22:02	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1726248	1	08/24/21 09:47	08/24/21 15:29	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1726340	1	08/20/21 10:23	08/20/21 10:23	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1729390	1	08/25/21 23:47	08/25/21 23:47	BMB	Mt. Juliet, TN

MW-344-081821 L1392302-02 GW

Collected by: HRC | Collected date/time: 08/18/21 12:30 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1728747	1	08/26/21 19:32	08/26/21 19:32	AMH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725975	1	08/19/21 23:10	08/19/21 23:10	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1727289	1	08/21/21 22:15	08/21/21 22:15	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1726248	1	08/24/21 09:47	08/24/21 15:33	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1726340	1	08/20/21 10:27	08/20/21 10:27	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1729390	1	08/26/21 00:06	08/26/21 00:06	BMB	Mt. Juliet, TN

MW-346-081821 L1392302-03 GW

Collected by: HRC | Collected date/time: 08/18/21 14:20 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1728747	1	08/26/21 19:36	08/26/21 19:36	AMH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1725975	1	08/20/21 00:15	08/20/21 00:15	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1727289	1	08/21/21 22:28	08/21/21 22:28	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1726248	1	08/24/21 09:47	08/24/21 15:36	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1726340	1	08/20/21 10:30	08/20/21 10:30	DAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1729390	1	08/26/21 00:26	08/26/21 00:26	BMB	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	239000		8450	20000	1	08/26/2021 19:28	WG1728747

Sample Narrative:

L1392302-01 WG1728747: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	46000		379	1000	1	08/19/2021 22:41	WG1725975
Nitrate	U		48.0	100	1	08/19/2021 22:41	WG1725975
Sulfate	47900		594	5000	1	08/19/2021 22:41	WG1725975

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1730	B	102	1000	1	08/21/2021 22:02	WG1727289

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1150		28.1	100	1	08/24/2021 15:29	WG1726248
Manganese	174		0.704	5.00	1	08/24/2021 15:29	WG1726248

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	251		0.287	0.678	1	08/20/2021 10:23	WG1726340
Ethane	2.54		0.296	1.29	1	08/20/2021 10:23	WG1726340
Ethene	3.81		0.422	1.27	1	08/20/2021 10:23	WG1726340

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.62		0.548	1.00	1	08/25/2021 23:47	WG1729390
Acrylonitrile	U		0.0760	0.500	1	08/25/2021 23:47	WG1729390
Benzene	0.191		0.0160	0.0400	1	08/25/2021 23:47	WG1729390
Bromobenzene	U		0.0420	0.500	1	08/25/2021 23:47	WG1729390
Bromodichloromethane	U		0.0315	0.100	1	08/25/2021 23:47	WG1729390
Bromoform	U		0.239	1.00	1	08/25/2021 23:47	WG1729390
Bromomethane	U		0.148	0.500	1	08/25/2021 23:47	WG1729390
n-Butylbenzene	U		0.153	0.500	1	08/25/2021 23:47	WG1729390
sec-Butylbenzene	U		0.101	0.500	1	08/25/2021 23:47	WG1729390
tert-Butylbenzene	U		0.0620	0.200	1	08/25/2021 23:47	WG1729390
Carbon tetrachloride	U		0.0432	0.200	1	08/25/2021 23:47	WG1729390
Chlorobenzene	U		0.0229	0.100	1	08/25/2021 23:47	WG1729390
Chlorodibromomethane	U		0.0180	0.100	1	08/25/2021 23:47	WG1729390
Chloroethane	U		0.0432	0.200	1	08/25/2021 23:47	WG1729390
Chloroform	U		0.0166	0.100	1	08/25/2021 23:47	WG1729390
Chloromethane	U		0.0556	0.500	1	08/25/2021 23:47	WG1729390
2-Chlorotoluene	U		0.0368	0.100	1	08/25/2021 23:47	WG1729390
4-Chlorotoluene	U		0.0452	0.200	1	08/25/2021 23:47	WG1729390
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	08/25/2021 23:47	WG1729390
1,2-Dibromoethane	U		0.0210	0.100	1	08/25/2021 23:47	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	08/25/2021 23:47	WG1729390
1,2-Dichlorobenzene	U		0.0580	0.200	1	08/25/2021 23:47	WG1729390
1,3-Dichlorobenzene	U		0.0680	0.200	1	08/25/2021 23:47	WG1729390
1,4-Dichlorobenzene	U		0.0788	0.200	1	08/25/2021 23:47	WG1729390
Dichlorodifluoromethane	U		0.0327	0.100	1	08/25/2021 23:47	WG1729390
1,1-Dichloroethane	U		0.0230	0.100	1	08/25/2021 23:47	WG1729390
1,2-Dichloroethane	U		0.0190	0.100	1	08/25/2021 23:47	WG1729390
1,1-Dichloroethene	U		0.0200	0.100	1	08/25/2021 23:47	WG1729390
cis-1,2-Dichloroethene	4.00		0.0276	0.100	1	08/25/2021 23:47	WG1729390
trans-1,2-Dichloroethene	U		0.0572	0.200	1	08/25/2021 23:47	WG1729390
1,2-Dichloropropane	U		0.0508	0.200	1	08/25/2021 23:47	WG1729390
1,1-Dichloropropene	U		0.0280	0.100	1	08/25/2021 23:47	WG1729390
1,3-Dichloropropane	U		0.0700	0.200	1	08/25/2021 23:47	WG1729390
cis-1,3-Dichloropropene	U		0.0271	0.100	1	08/25/2021 23:47	WG1729390
trans-1,3-Dichloropropene	U		0.0612	0.200	1	08/25/2021 23:47	WG1729390
2,2-Dichloropropane	U		0.0317	0.100	1	08/25/2021 23:47	WG1729390
Di-isopropyl ether	U		0.0140	0.0400	1	08/25/2021 23:47	WG1729390
Ethylbenzene	0.192		0.0212	0.100	1	08/25/2021 23:47	WG1729390
Hexachloro-1,3-butadiene	U		0.508	1.00	1	08/25/2021 23:47	WG1729390
Isopropylbenzene	U		0.0345	0.100	1	08/25/2021 23:47	WG1729390
p-Isopropyltoluene	U		0.0932	0.200	1	08/25/2021 23:47	WG1729390
2-Butanone (MEK)	U		0.500	1.00	1	08/25/2021 23:47	WG1729390
Methylene Chloride	U		0.265	1.00	1	08/25/2021 23:47	WG1729390
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	08/25/2021 23:47	WG1729390
Methyl tert-butyl ether	U		0.0118	0.0400	1	08/25/2021 23:47	WG1729390
Naphthalene	U		0.124	0.500	1	08/25/2021 23:47	WG1729390
n-Propylbenzene	U		0.0472	0.200	1	08/25/2021 23:47	WG1729390
Styrene	U		0.109	0.500	1	08/25/2021 23:47	WG1729390
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	08/25/2021 23:47	WG1729390
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	08/25/2021 23:47	WG1729390
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	08/25/2021 23:47	WG1729390
Tetrachloroethene	0.0940	J	0.0280	0.100	1	08/25/2021 23:47	WG1729390
Toluene	1.99		0.0500	0.200	1	08/25/2021 23:47	WG1729390
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	08/25/2021 23:47	WG1729390
1,2,4-Trichlorobenzene	U		0.193	0.500	1	08/25/2021 23:47	WG1729390
1,1,1-Trichloroethane	U		0.0110	0.100	1	08/25/2021 23:47	WG1729390
1,1,2-Trichloroethane	U		0.0353	0.100	1	08/25/2021 23:47	WG1729390
Trichloroethene	0.213		0.0160	0.0400	1	08/25/2021 23:47	WG1729390
Trichlorofluoromethane	U		0.0200	0.100	1	08/25/2021 23:47	WG1729390
1,2,3-Trichloropropane	U		0.204	0.500	1	08/25/2021 23:47	WG1729390
1,2,4-Trimethylbenzene	0.182	J	0.0464	0.200	1	08/25/2021 23:47	WG1729390
1,2,3-Trimethylbenzene	0.0700	J	0.0460	0.200	1	08/25/2021 23:47	WG1729390
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	08/25/2021 23:47	WG1729390
Vinyl chloride	2.90		0.0273	0.100	1	08/25/2021 23:47	WG1729390
Xylenes, Total	1.15		0.191	0.260	1	08/25/2021 23:47	WG1729390
Ethyl Ether	U		0.0170	0.100	1	08/25/2021 23:47	WG1729390
Tetrahydrofuran	U		0.0900	0.500	1	08/25/2021 23:47	WG1729390
Iodomethane	U		0.242	0.500	1	08/25/2021 23:47	WG1729390
Allyl chloride	U		0.580	1.00	1	08/25/2021 23:47	WG1729390
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	08/25/2021 23:47	WG1729390
(S) Toluene-d8	*96.8*			*75.0-131*		*08/25/2021 23:47*	WG1729390
(S) 4-Bromofluorobenzene	*96.9*			*67.0-138*		*08/25/2021 23:47*	WG1729390
(S) 1,2-Dichloroethane-d4	*97.9*			*70.0-130*		*08/25/2021 23:47*	WG1729390

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	216000		8450	20000	1	08/26/2021 19:32	WG1728747

Sample Narrative:

L1392302-02 WG1728747: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	20800		379	1000	1	08/19/2021 23:10	WG1725975
Nitrate	U		48.0	100	1	08/19/2021 23:10	WG1725975
Sulfate	60400		594	5000	1	08/19/2021 23:10	WG1725975

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1200	B	102	1000	1	08/21/2021 22:15	WG1727289

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	33300		28.1	100	1	08/24/2021 15:33	WG1726248
Manganese	1160		0.704	5.00	1	08/24/2021 15:33	WG1726248

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	43.0		0.287	0.678	1	08/20/2021 10:27	WG1726340
Ethane	U		0.296	1.29	1	08/20/2021 10:27	WG1726340
Ethene	U		0.422	1.27	1	08/20/2021 10:27	WG1726340

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		0.548	1.00	1	08/26/2021 00:06	WG1729390
Acrylonitrile	U		0.0760	0.500	1	08/26/2021 00:06	WG1729390
Benzene	U		0.0160	0.0400	1	08/26/2021 00:06	WG1729390
Bromobenzene	U		0.0420	0.500	1	08/26/2021 00:06	WG1729390
Bromodichloromethane	U		0.0315	0.100	1	08/26/2021 00:06	WG1729390
Bromoform	U		0.239	1.00	1	08/26/2021 00:06	WG1729390
Bromomethane	U		0.148	0.500	1	08/26/2021 00:06	WG1729390
n-Butylbenzene	U		0.153	0.500	1	08/26/2021 00:06	WG1729390
sec-Butylbenzene	U		0.101	0.500	1	08/26/2021 00:06	WG1729390
tert-Butylbenzene	U		0.0620	0.200	1	08/26/2021 00:06	WG1729390
Carbon tetrachloride	U		0.0432	0.200	1	08/26/2021 00:06	WG1729390
Chlorobenzene	U		0.0229	0.100	1	08/26/2021 00:06	WG1729390
Chlorodibromomethane	U		0.0180	0.100	1	08/26/2021 00:06	WG1729390
Chloroethane	U		0.0432	0.200	1	08/26/2021 00:06	WG1729390
Chloroform	U		0.0166	0.100	1	08/26/2021 00:06	WG1729390
Chloromethane	U		0.0556	0.500	1	08/26/2021 00:06	WG1729390
2-Chlorotoluene	U		0.0368	0.100	1	08/26/2021 00:06	WG1729390
4-Chlorotoluene	U		0.0452	0.200	1	08/26/2021 00:06	WG1729390
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	08/26/2021 00:06	WG1729390
1,2-Dibromoethane	U		0.0210	0.100	1	08/26/2021 00:06	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	08/26/2021 00:06	WG1729390
1,2-Dichlorobenzene	U		0.0580	0.200	1	08/26/2021 00:06	WG1729390
1,3-Dichlorobenzene	U		0.0680	0.200	1	08/26/2021 00:06	WG1729390
1,4-Dichlorobenzene	U		0.0788	0.200	1	08/26/2021 00:06	WG1729390
Dichlorodifluoromethane	U		0.0327	0.100	1	08/26/2021 00:06	WG1729390
1,1-Dichloroethane	U		0.0230	0.100	1	08/26/2021 00:06	WG1729390
1,2-Dichloroethane	U		0.0190	0.100	1	08/26/2021 00:06	WG1729390
1,1-Dichloroethene	U		0.0200	0.100	1	08/26/2021 00:06	WG1729390
cis-1,2-Dichloroethene	0.654		0.0276	0.100	1	08/26/2021 00:06	WG1729390
trans-1,2-Dichloroethene	U		0.0572	0.200	1	08/26/2021 00:06	WG1729390
1,2-Dichloropropane	U		0.0508	0.200	1	08/26/2021 00:06	WG1729390
1,1-Dichloropropene	U		0.0280	0.100	1	08/26/2021 00:06	WG1729390
1,3-Dichloropropane	U		0.0700	0.200	1	08/26/2021 00:06	WG1729390
cis-1,3-Dichloropropene	U		0.0271	0.100	1	08/26/2021 00:06	WG1729390
trans-1,3-Dichloropropene	U		0.0612	0.200	1	08/26/2021 00:06	WG1729390
2,2-Dichloropropane	U		0.0317	0.100	1	08/26/2021 00:06	WG1729390
Di-isopropyl ether	0.0710		0.0140	0.0400	1	08/26/2021 00:06	WG1729390
Ethylbenzene	U		0.0212	0.100	1	08/26/2021 00:06	WG1729390
Hexachloro-1,3-butadiene	U		0.508	1.00	1	08/26/2021 00:06	WG1729390
Isopropylbenzene	U		0.0345	0.100	1	08/26/2021 00:06	WG1729390
p-Isopropyltoluene	U		0.0932	0.200	1	08/26/2021 00:06	WG1729390
2-Butanone (MEK)	U		0.500	1.00	1	08/26/2021 00:06	WG1729390
Methylene Chloride	U		0.265	1.00	1	08/26/2021 00:06	WG1729390
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	08/26/2021 00:06	WG1729390
Methyl tert-butyl ether	U		0.0118	0.0400	1	08/26/2021 00:06	WG1729390
Naphthalene	U		0.124	0.500	1	08/26/2021 00:06	WG1729390
n-Propylbenzene	U		0.0472	0.200	1	08/26/2021 00:06	WG1729390
Styrene	U		0.109	0.500	1	08/26/2021 00:06	WG1729390
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	08/26/2021 00:06	WG1729390
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	08/26/2021 00:06	WG1729390
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	08/26/2021 00:06	WG1729390
Tetrachloroethene	U		0.0280	0.100	1	08/26/2021 00:06	WG1729390
Toluene	0.0740	J	0.0500	0.200	1	08/26/2021 00:06	WG1729390
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	08/26/2021 00:06	WG1729390
1,2,4-Trichlorobenzene	U		0.193	0.500	1	08/26/2021 00:06	WG1729390
1,1,1-Trichloroethane	U		0.0110	0.100	1	08/26/2021 00:06	WG1729390
1,1,2-Trichloroethane	U		0.0353	0.100	1	08/26/2021 00:06	WG1729390
Trichloroethene	U		0.0160	0.0400	1	08/26/2021 00:06	WG1729390
Trichlorofluoromethane	U		0.0200	0.100	1	08/26/2021 00:06	WG1729390
1,2,3-Trichloropropane	U		0.204	0.500	1	08/26/2021 00:06	WG1729390
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	08/26/2021 00:06	WG1729390
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	08/26/2021 00:06	WG1729390
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	08/26/2021 00:06	WG1729390
Vinyl chloride	1.02		0.0273	0.100	1	08/26/2021 00:06	WG1729390
Xylenes, Total	U		0.191	0.260	1	08/26/2021 00:06	WG1729390
Ethyl Ether	U		0.0170	0.100	1	08/26/2021 00:06	WG1729390
Tetrahydrofuran	U		0.0900	0.500	1	08/26/2021 00:06	WG1729390
Iodomethane	U		0.242	0.500	1	08/26/2021 00:06	WG1729390
Allyl chloride	U		0.580	1.00	1	08/26/2021 00:06	WG1729390
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	08/26/2021 00:06	WG1729390
(S) Toluene-d8	*94.9*			*75.0-131*		*08/26/2021 00:06*	WG1729390
(S) 4-Bromofluorobenzene	*96.2*			*67.0-138*		*08/26/2021 00:06*	WG1729390
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*08/26/2021 00:06*	WG1729390

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	221000		8450	20000	1	08/26/2021 19:36	WG1728747

Sample Narrative:

L1392302-03 WG1728747: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	45000		379	1000	1	08/20/2021 00:15	WG1725975
Nitrate	U		48.0	100	1	08/20/2021 00:15	WG1725975
Sulfate	48700		594	5000	1	08/20/2021 00:15	WG1725975

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1830	B	102	1000	1	08/21/2021 22:28	WG1727289

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	3160		28.1	100	1	08/24/2021 15:36	WG1726248
Manganese	184		0.704	5.00	1	08/24/2021 15:36	WG1726248

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	189		0.287	0.678	1	08/20/2021 10:30	WG1726340
Ethane	7.36		0.296	1.29	1	08/20/2021 10:30	WG1726340
Ethene	5.08		0.422	1.27	1	08/20/2021 10:30	WG1726340

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	4.86		0.548	1.00	1	08/26/2021 00:26	WG1729390
Acrylonitrile	U		0.0760	0.500	1	08/26/2021 00:26	WG1729390
Benzene	0.0280	J	0.0160	0.0400	1	08/26/2021 00:26	WG1729390
Bromobenzene	U		0.0420	0.500	1	08/26/2021 00:26	WG1729390
Bromodichloromethane	U		0.0315	0.100	1	08/26/2021 00:26	WG1729390
Bromoform	U		0.239	1.00	1	08/26/2021 00:26	WG1729390
Bromomethane	U		0.148	0.500	1	08/26/2021 00:26	WG1729390
n-Butylbenzene	U		0.153	0.500	1	08/26/2021 00:26	WG1729390
sec-Butylbenzene	U		0.101	0.500	1	08/26/2021 00:26	WG1729390
tert-Butylbenzene	U		0.0620	0.200	1	08/26/2021 00:26	WG1729390
Carbon tetrachloride	U		0.0432	0.200	1	08/26/2021 00:26	WG1729390
Chlorobenzene	U		0.0229	0.100	1	08/26/2021 00:26	WG1729390
Chlorodibromomethane	U		0.0180	0.100	1	08/26/2021 00:26	WG1729390
Chloroethane	U		0.0432	0.200	1	08/26/2021 00:26	WG1729390
Chloroform	U		0.0166	0.100	1	08/26/2021 00:26	WG1729390
Chloromethane	U		0.0556	0.500	1	08/26/2021 00:26	WG1729390
2-Chlorotoluene	U		0.0368	0.100	1	08/26/2021 00:26	WG1729390
4-Chlorotoluene	U		0.0452	0.200	1	08/26/2021 00:26	WG1729390
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	08/26/2021 00:26	WG1729390
1,2-Dibromoethane	U		0.0210	0.100	1	08/26/2021 00:26	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	08/26/2021 00:26	WG1729390
1,2-Dichlorobenzene	U		0.0580	0.200	1	08/26/2021 00:26	WG1729390
1,3-Dichlorobenzene	U		0.0680	0.200	1	08/26/2021 00:26	WG1729390
1,4-Dichlorobenzene	U		0.0788	0.200	1	08/26/2021 00:26	WG1729390
Dichlorodifluoromethane	U		0.0327	0.100	1	08/26/2021 00:26	WG1729390
1,1-Dichloroethane	U		0.0230	0.100	1	08/26/2021 00:26	WG1729390
1,2-Dichloroethane	U		0.0190	0.100	1	08/26/2021 00:26	WG1729390
1,1-Dichloroethene	0.0750	J	0.0200	0.100	1	08/26/2021 00:26	WG1729390
cis-1,2-Dichloroethene	24.7		0.0276	0.100	1	08/26/2021 00:26	WG1729390
trans-1,2-Dichloroethene	0.0880	J	0.0572	0.200	1	08/26/2021 00:26	WG1729390
1,2-Dichloropropane	U		0.0508	0.200	1	08/26/2021 00:26	WG1729390
1,1-Dichloropropene	U		0.0280	0.100	1	08/26/2021 00:26	WG1729390
1,3-Dichloropropane	U		0.0700	0.200	1	08/26/2021 00:26	WG1729390
cis-1,3-Dichloropropene	U		0.0271	0.100	1	08/26/2021 00:26	WG1729390
trans-1,3-Dichloropropene	U		0.0612	0.200	1	08/26/2021 00:26	WG1729390
2,2-Dichloropropane	U		0.0317	0.100	1	08/26/2021 00:26	WG1729390
Di-isopropyl ether	U		0.0140	0.0400	1	08/26/2021 00:26	WG1729390
Ethylbenzene	U		0.0212	0.100	1	08/26/2021 00:26	WG1729390
Hexachloro-1,3-butadiene	U		0.508	1.00	1	08/26/2021 00:26	WG1729390
Isopropylbenzene	U		0.0345	0.100	1	08/26/2021 00:26	WG1729390
p-Isopropyltoluene	U		0.0932	0.200	1	08/26/2021 00:26	WG1729390
2-Butanone (MEK)	U		0.500	1.00	1	08/26/2021 00:26	WG1729390
Methylene Chloride	U		0.265	1.00	1	08/26/2021 00:26	WG1729390
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	08/26/2021 00:26	WG1729390
Methyl tert-butyl ether	U		0.0118	0.0400	1	08/26/2021 00:26	WG1729390
Naphthalene	U		0.124	0.500	1	08/26/2021 00:26	WG1729390
n-Propylbenzene	U		0.0472	0.200	1	08/26/2021 00:26	WG1729390
Styrene	U		0.109	0.500	1	08/26/2021 00:26	WG1729390
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	08/26/2021 00:26	WG1729390
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	08/26/2021 00:26	WG1729390
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	08/26/2021 00:26	WG1729390
Tetrachloroethene	1.58		0.0280	0.100	1	08/26/2021 00:26	WG1729390
Toluene	0.0860	J	0.0500	0.200	1	08/26/2021 00:26	WG1729390
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	08/26/2021 00:26	WG1729390
1,2,4-Trichlorobenzene	U		0.193	0.500	1	08/26/2021 00:26	WG1729390
1,1,1-Trichloroethane	U		0.0110	0.100	1	08/26/2021 00:26	WG1729390
1,1,2-Trichloroethane	U		0.0353	0.100	1	08/26/2021 00:26	WG1729390
Trichloroethene	0.646		0.0160	0.0400	1	08/26/2021 00:26	WG1729390
Trichlorofluoromethane	U		0.0200	0.100	1	08/26/2021 00:26	WG1729390
1,2,3-Trichloropropane	U		0.204	0.500	1	08/26/2021 00:26	WG1729390
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	08/26/2021 00:26	WG1729390
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	08/26/2021 00:26	WG1729390
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	08/26/2021 00:26	WG1729390
Vinyl chloride	1.11		0.0273	0.100	1	08/26/2021 00:26	WG1729390
Xylenes, Total	U		0.191	0.260	1	08/26/2021 00:26	WG1729390
Ethyl Ether	U		0.0170	0.100	1	08/26/2021 00:26	WG1729390
Tetrahydrofuran	U		0.0900	0.500	1	08/26/2021 00:26	WG1729390
Iodomethane	U		0.242	0.500	1	08/26/2021 00:26	WG1729390
Allyl chloride	U		0.580	1.00	1	08/26/2021 00:26	WG1729390
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	08/26/2021 00:26	WG1729390
(S) Toluene-d8	*97.2*			*75.0-131*		*08/26/2021 00:26*	WG1729390
(S) 4-Bromofluorobenzene	*98.5*			*67.0-138*		*08/26/2021 00:26*	WG1729390
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*08/26/2021 00:26*	WG1729390

Method Blank (MB)

(MB) R3697048-2 08/26/21 17:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1392102-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1392102-02 08/26/21 17:49 • (DUP) R3697048-3 08/26/21 17:54

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	3850000	3860000	5	0.454		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1392241-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1392241-01 08/26/21 18:43 • (DUP) R3697048-4 08/26/21 18:47

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	127000	129000	1	1.23		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3697048-1 08/26/21 17:30

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	104000	104	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3695577-1 08/19/21 12:38

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

L1392267-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1392267-01 08/19/21 16:42 • (DUP) R3695577-5 08/19/21 16:57

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	86800	86800	1	0.0177		15
Nitrate	1970	1970	1	0.0914		15
Sulfate	36000	36000	1	0.0800		15

L1392302-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1392302-01 08/19/21 22:41 • (DUP) R3695577-10 08/19/21 22:55

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	46000	45600	1	0.894		15
Nitrate	U	U	1	0.000		15
Sulfate	47900	47700	1	0.416		15

Laboratory Control Sample (LCS)

(LCS) R3695577-2 08/19/21 12:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	40000	100	80.0-120	
Nitrate	8000	8190	102	80.0-120	
Sulfate	40000	39700	99.3	80.0-120	

L1392241-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392241-01 08/19/21 15:43 • (MS) R3695577-3 08/19/21 15:57 • (MSD) R3695577-4 08/19/21 16:12

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	96800	144000	144000	94.8	94.5	1	80.0-120	E	E	0.0938	15
Nitrate	5000	102	5110	5110	100	100	1	80.0-120			0.00587	15
Sulfate	50000	233000	269000	269000	70.4	70.9	1	80.0-120	E V	E V	0.0963	15

L1392267-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392267-01 08/19/21 16:42 • (MS) R3695577-6 08/19/21 17:12 • (MSD) R3695577-7 08/19/21 17:27

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	86800	135000	135000	96.0	96.3	1	80.0-120	E	E	0.0944	15
Nitrate	5000	1970	7410	7410	109	109	1	80.0-120			0.0216	15
Sulfate	50000	36000	87700	87800	103	104	1	80.0-120			0.0888	15

L1392272-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392272-01 08/19/21 18:26 • (MS) R3695577-8 08/19/21 18:56 • (MSD) R3695577-9 08/19/21 19:11

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	43000000	41200000	41100000	0.000	0.000	100	80.0-120	E V	E V	0.409	15
Nitrate	5000	11500	12400	12500	17.5	18.9	100	80.0-120	J6	J6	0.563	15
Sulfate	50000	171000	203000	202000	63.2	61.6	100	80.0-120	J6	J6	0.394	15

Sample Narrative:

OS: dilution due to sample matrix

Method Blank (MB)

(MB) R3695118-2 08/21/21 16:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	232	J	102	1000

L1392298-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1392298-03 08/21/21 21:23 • (DUP) R3695118-7 08/21/21 21:36

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1870	1720	1	8.51		20

Laboratory Control Sample (LCS)

(LCS) R3695118-1 08/21/21 15:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	75800	101	85.0-115	

L1392162-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392162-06 08/21/21 17:44 • (MS) R3695118-3 08/21/21 18:05 • (MSD) R3695118-4 08/21/21 18:22

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	2570	51500	52700	97.8	100	1	80.0-120			2.34	20

L1392241-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392241-01 08/21/21 19:34 • (MS) R3695118-5 08/21/21 19:52 • (MSD) R3695118-6 08/21/21 20:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	2510	56100	52100	107	99.2	1	80.0-120			7.41	20

Method Blank (MB)

(MB) R3695894-1 08/24/21 14:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Iron	U		28.1	100
Manganese	U		0.704	5.00

Laboratory Control Sample (LCS)

(LCS) R3695894-2 08/24/21 14:39

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron	5000	5020	100	80.0-120	
Manganese	50.0	50.9	102	80.0-120	

L1392267-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392267-01 08/24/21 14:42 • (MS) R3695894-4 08/24/21 14:49 • (MSD) R3695894-5 08/24/21 14:53

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	5000	91.1	4970	5070	97.5	99.5	1	75.0-125			2.03	20
Manganese	50.0	2.44	51.1	50.9	97.3	96.9	1	75.0-125			0.333	20

Method Blank (MB)

(MB) R3694403-2 08/20/21 08:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1392399-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1392399-01 08/20/21 09:05 • (DUP) R3694403-3 08/20/21 10:19

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	2860	2680	1	6.50		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1392307-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1392307-02 08/20/21 10:40 • (DUP) R3694403-4 08/20/21 11:07

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	349	329	1	5.90		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3694403-1 08/20/21 08:47 • (LCSD) R3694403-5 08/20/21 11:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methane	67.8	62.8	60.2	92.6	88.8	85.0-115			4.23	20
Ethane	129	119	116	92.2	89.9	85.0-115			2.55	20
Ethene	127	119	116	93.7	91.3	85.0-115			2.55	20

Method Blank (MB)

(MB) R3696881-3 08/25/21 21:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3696881-3 08/25/21 21:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*96.9*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3696881-1 08/25/21 20:33 • (LCSD) R3696881-2 08/25/21 20:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	23.3	22.9	93.2	91.6	10.0-160			1.73	31
Acrylonitrile	25.0	22.7	23.3	90.8	93.2	45.0-153			2.61	22
Benzene	5.00	4.83	4.85	96.6	97.0	70.0-123			0.413	20
Bromobenzene	5.00	5.13	5.11	103	102	73.0-121			0.391	20
Bromodichloromethane	5.00	4.99	5.00	99.8	100	73.0-121			0.200	20
Bromoform	5.00	4.66	4.84	93.2	96.8	64.0-132			3.79	20
Bromomethane	5.00	5.07	4.95	101	99.0	56.0-147			2.40	20
n-Butylbenzene	5.00	4.98	5.07	99.6	101	68.0-135			1.79	20
sec-Butylbenzene	5.00	5.10	5.08	102	102	74.0-130			0.393	20
tert-Butylbenzene	5.00	5.22	5.15	104	103	75.0-127			1.35	20
Carbon tetrachloride	5.00	4.92	5.02	98.4	100	66.0-128			2.01	20
Chlorobenzene	5.00	5.09	5.23	102	105	76.0-128			2.71	20
Chlorodibromomethane	5.00	4.98	5.00	99.6	100	74.0-127			0.401	20
Chloroethane	5.00	4.52	4.69	90.4	93.8	61.0-134			3.69	20
Chloroform	5.00	4.96	5.10	99.2	102	72.0-123			2.78	20
Chloromethane	5.00	4.60	4.69	92.0	93.8	51.0-138			1.94	20
2-Chlorotoluene	5.00	4.97	5.20	99.4	104	75.0-124			4.52	20
4-Chlorotoluene	5.00	4.87	4.93	97.4	98.6	75.0-124			1.22	20
1,2-Dibromo-3-Chloropropane	5.00	4.82	4.90	96.4	98.0	59.0-130			1.65	20
1,2-Dibromoethane	5.00	5.18	5.09	104	102	74.0-128			1.75	20
Dibromomethane	5.00	4.73	4.90	94.6	98.0	75.0-122			3.53	20
1,2-Dichlorobenzene	5.00	4.83	4.94	96.6	98.8	76.0-124			2.25	20
1,3-Dichlorobenzene	5.00	5.05	5.21	101	104	76.0-125			3.12	20
1,4-Dichlorobenzene	5.00	5.12	5.14	102	103	77.0-121			0.390	20
trans-1,4-Dichloro-2-butene	5.00	4.57	4.60	91.4	92.0	45.0-143			0.654	20
Dichlorodifluoromethane	5.00	4.46	4.80	89.2	96.0	43.0-156			7.34	20
1,1-Dichloroethane	5.00	4.94	4.95	98.8	99.0	70.0-127			0.202	20
1,2-Dichloroethane	5.00	4.99	5.00	99.8	100	65.0-131			0.200	20
1,1-Dichloroethene	5.00	5.21	5.37	104	107	65.0-131			3.02	20
cis-1,2-Dichloroethene	5.00	4.99	5.14	99.8	103	73.0-125			2.96	20
trans-1,2-Dichloroethene	5.00	5.07	5.30	101	106	71.0-125			4.44	20
1,2-Dichloropropane	5.00	5.31	5.15	106	103	74.0-125			3.06	20
1,1-Dichloropropene	5.00	5.02	5.00	100	100	73.0-125			0.399	20
1,3-Dichloropropane	5.00	5.01	5.13	100	103	80.0-125			2.37	20
cis-1,3-Dichloropropene	5.00	5.06	4.92	101	98.4	76.0-127			2.81	20
trans-1,3-Dichloropropene	5.00	4.73	4.94	94.6	98.8	73.0-127			4.34	20
2,2-Dichloropropane	5.00	4.48	4.49	89.6	89.8	59.0-135			0.223	20
Di-isopropyl ether	5.00	4.83	5.01	96.6	100	60.0-136			3.66	20
Ethylbenzene	5.00	4.92	5.09	98.4	102	74.0-126			3.40	20
Ethyl ether	5.00	4.80	4.88	96.0	97.6	64.0-137			1.65	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3696881-1 08/25/21 20:33 • (LCSD) R3696881-2 08/25/21 20:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	5.18	5.39	104	108	57.0-150			3.97	20
Iodomethane	25.0	25.9	26.3	104	105	74.0-134			1.53	20
Isopropylbenzene	5.00	4.99	5.10	99.8	102	72.0-127			2.18	20
p-Isopropyltoluene	5.00	4.99	5.08	99.8	102	72.0-133			1.79	20
2-Butanone (MEK)	25.0	24.4	24.8	97.6	99.2	30.0-160			1.63	24
Methylene Chloride	5.00	4.97	5.11	99.4	102	68.0-123			2.78	20
4-Methyl-2-pentanone (MIBK)	25.0	24.7	25.0	98.8	100	56.0-143			1.21	20
Methyl tert-butyl ether	5.00	4.61	4.68	92.2	93.6	66.0-132			1.51	20
Naphthalene	5.00	4.66	5.00	93.2	100	59.0-130			7.04	20
n-Propylbenzene	5.00	4.94	4.99	98.8	99.8	74.0-126			1.01	20
Styrene	5.00	5.16	5.19	103	104	72.0-127			0.580	20
1,1,1,2-Tetrachloroethane	5.00	4.88	5.05	97.6	101	74.0-129			3.42	20
1,1,2,2-Tetrachloroethane	5.00	4.62	4.58	92.4	91.6	68.0-128			0.870	20
Tetrachloroethene	5.00	5.22	5.27	104	105	70.0-136			0.953	20
Tetrahydrofuran	5.00	4.73	4.75	94.6	95.0	37.0-146			0.422	24
Toluene	5.00	4.99	4.96	99.8	99.2	75.0-121			0.603	20
1,1,2-Trichlorotrifluoroethane	5.00	4.66	4.87	93.2	97.4	61.0-139			4.41	20
1,2,3-Trichlorobenzene	5.00	5.04	5.19	101	104	59.0-139			2.93	20
1,2,4-Trichlorobenzene	5.00	4.97	5.32	99.4	106	62.0-137			6.80	20
1,1,1-Trichloroethane	5.00	5.19	5.28	104	106	69.0-126			1.72	20
1,1,2-Trichloroethane	5.00	5.05	5.17	101	103	78.0-123			2.35	20
Trichloroethene	5.00	5.66	5.51	113	110	76.0-126			2.69	20
Trichlorofluoromethane	5.00	4.72	4.88	94.4	97.6	61.0-142			3.33	20
1,2,3-Trichloropropane	5.00	5.01	5.09	100	102	67.0-129			1.58	20
1,2,3-Trimethylbenzene	5.00	4.97	4.80	99.4	96.0	74.0-124			3.48	20
1,2,4-Trimethylbenzene	5.00	5.00	5.00	100	100	70.0-126			0.000	20
1,3,5-Trimethylbenzene	5.00	5.13	5.07	103	101	73.0-127			1.18	20
Vinyl chloride	5.00	4.90	4.92	98.0	98.4	63.0-134			0.407	20
Xylenes, Total	15.0	15.5	15.7	103	105	72.0-127			1.28	20
Allyl chloride	25.0	24.9	25.7	99.6	103	70.0-131			3.16	20
(S) Toluene-d8				*97.5*	*98.9*	*75.0-131*				
(S) 4-Bromofluorobenzene				*95.7*	*98.7*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*97.6*	*99.4*	*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: PES Environmental	Billing Information: Accounts Payable 2101 4th Ave #1310 Seattle, WA 98121
Address: 2101 4th Ave #1310	
Report To: Brian O'Neal / Bill Haldeman	Email To: sMckernan@pesenv.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 1413.001.02.501 I	State: WA County/City: Seattle Time Zone Collected: [X] PT [ ] MT [ ] CT [ ] ET
Phone: (206) 529-3980 Email: BONEAL@pesenv.com	Site/Facility ID #: American Liner
Collected By (print): HRC	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [X] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Project Manager:

Analyses

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Type: Plastic (P) or Glass (G)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	ALK 125mL NoPres	FE G, MNG 250 mL HNO3	NO3, CL, SO4 125mL NoPres	RSK 175 40mL Amb HCl	Sulfate 125mL No Pres	TOC 250mL HCl	V8260 ULC 40mL Amb HCl
MW-345-081821	GW	Grab	8/18/21	1040				9	X	X	X	X		X	X
MW-344-081821	GW	"	"	1230				9	X	X	X	X		X	X
MW-346-081821	GW	"	"	1420				9	X	X	X	X		X	X

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Comments:
L1392702
-01
-02
-03

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: A3
Cooler 1 Temp Upon Receipt: 1.4 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 1.4 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 8/18/21 1545	Received by/Company: (Signature)	Date/Time: 8/19/21 9:00
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

K193

Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y (N) NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 2

ANALYTICAL REPORT

August 30, 2021

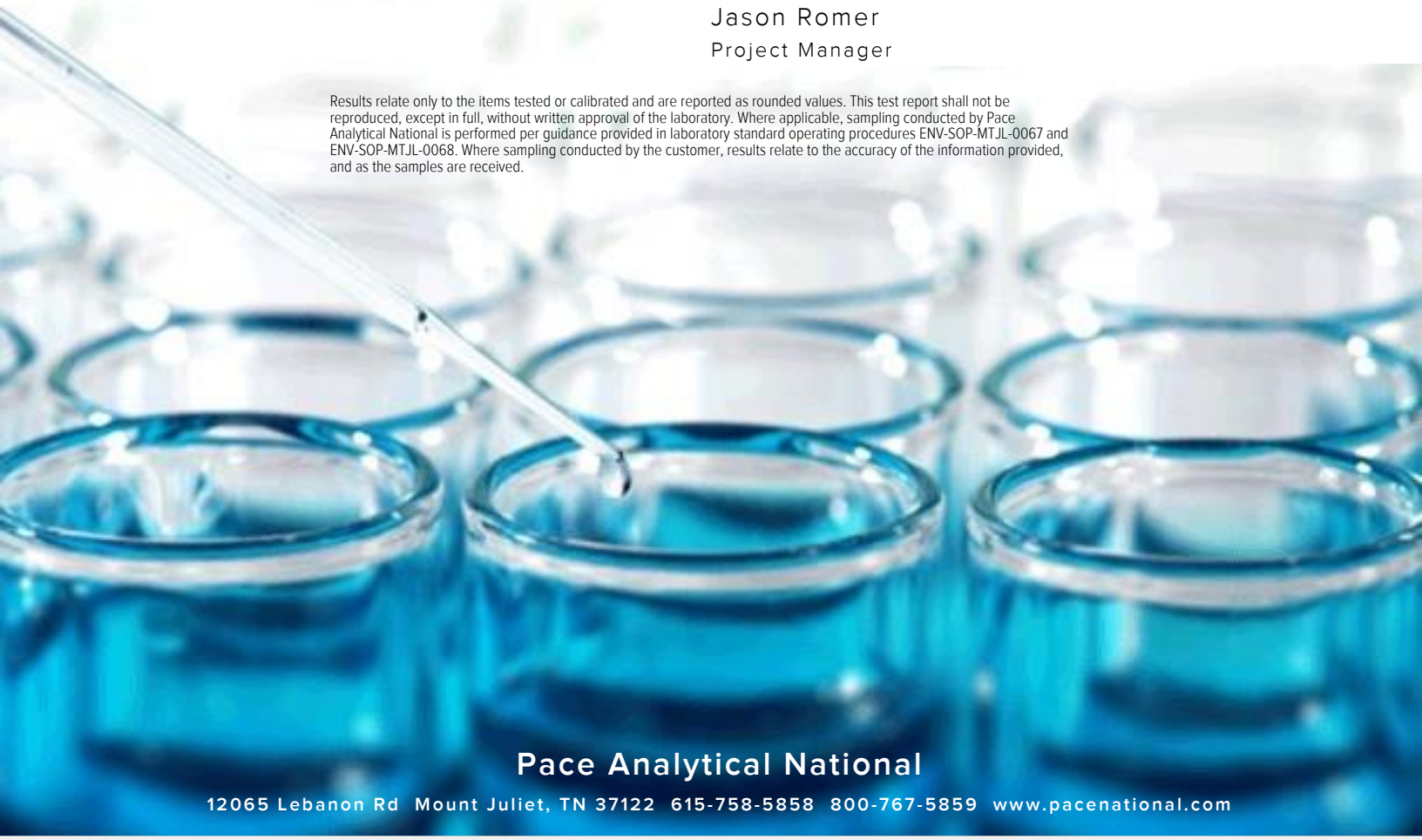
PES Environmental, Inc.- WA

Sample Delivery Group:	L1392900
Samples Received:	08/20/2021
Project Number:	1413.001.02.501l
Description:	American Linen

Report To: Brian O'Neal/Bill Haldeman
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

Entire Report Reviewed By:

Jason Romer
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-954-081921 L1392900-01 GW

Collected by: HRC/BLH | Collected date/time: 08/19/21 08:00 | Received date/time: 08/20/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1730188	1	08/27/21 18:24	08/27/21 18:24	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1726748	1	08/20/21 14:36	08/20/21 14:36	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1727789	1	08/23/21 23:19	08/23/21 23:19	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1728391	1	08/24/21 21:06	08/24/21 23:51	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1728223	1	08/24/21 12:46	08/24/21 12:46	MBF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1729390	1	08/26/21 00:45	08/26/21 00:45	BMB	Mt. Juliet, TN

MW-349-081921 L1392900-02 GW

Collected by: HRC/BLH | Collected date/time: 08/19/21 09:25 | Received date/time: 08/20/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1730188	1	08/27/21 18:31	08/27/21 18:31	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1726748	1	08/20/21 14:49	08/20/21 14:49	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1727789	1	08/24/21 00:24	08/24/21 00:24	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1728391	1	08/24/21 21:06	08/24/21 23:54	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1728223	1	08/24/21 12:50	08/24/21 12:50	MBF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1729390	1	08/26/21 01:04	08/26/21 01:04	BMB	Mt. Juliet, TN

MW-347-081921 L1392900-03 GW

Collected by: HRC/BLH | Collected date/time: 08/19/21 10:00 | Received date/time: 08/20/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1730188	1	08/27/21 18:35	08/27/21 18:35	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1726748	1	08/20/21 15:03	08/20/21 15:03	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1727789	1	08/24/21 00:39	08/24/21 00:39	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1728391	1	08/24/21 21:06	08/24/21 23:57	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1728223	1	08/24/21 12:57	08/24/21 12:57	MBF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1729390	1	08/26/21 01:24	08/26/21 01:24	BMB	Mt. Juliet, TN

MW-348-081921 L1392900-04 GW

Collected by: HRC/BLH | Collected date/time: 08/19/21 11:45 | Received date/time: 08/20/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG1730188	1	08/27/21 18:38	08/27/21 18:38	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1726748	1	08/20/21 15:55	08/20/21 15:55	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1727789	1	08/24/21 00:55	08/24/21 00:55	MJA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1728391	1	08/24/21 21:06	08/25/21 00:01	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1728223	1	08/24/21 13:09	08/24/21 13:09	MBF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1729390	1	08/26/21 01:43	08/26/21 01:43	BMB	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	238000		8450	20000	1	08/27/2021 18:24	WG1730188

Sample Narrative:

L1392900-01 WG1730188: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	40200		379	1000	1	08/20/2021 14:36	WG1726748
Nitrate	U		48.0	100	1	08/20/2021 14:36	WG1726748
Sulfate	53100		594	5000	1	08/20/2021 14:36	WG1726748

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1880	B	102	1000	1	08/23/2021 23:19	WG1727789

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	878		28.1	100	1	08/24/2021 23:51	WG1728391
Manganese	107		0.704	5.00	1	08/24/2021 23:51	WG1728391

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	126		0.287	0.678	1	08/24/2021 12:46	WG1728223
Ethane	U		0.296	1.29	1	08/24/2021 12:46	WG1728223
Ethene	10.2		0.422	1.27	1	08/24/2021 12:46	WG1728223

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.84		0.548	1.00	1	08/26/2021 00:45	WG1729390
Acrylonitrile	U		0.0760	0.500	1	08/26/2021 00:45	WG1729390
Benzene	0.0270	J	0.0160	0.0400	1	08/26/2021 00:45	WG1729390
Bromobenzene	U		0.0420	0.500	1	08/26/2021 00:45	WG1729390
Bromodichloromethane	U		0.0315	0.100	1	08/26/2021 00:45	WG1729390
Bromoform	U		0.239	1.00	1	08/26/2021 00:45	WG1729390
Bromomethane	U		0.148	0.500	1	08/26/2021 00:45	WG1729390
n-Butylbenzene	U		0.153	0.500	1	08/26/2021 00:45	WG1729390
sec-Butylbenzene	U		0.101	0.500	1	08/26/2021 00:45	WG1729390
tert-Butylbenzene	U		0.0620	0.200	1	08/26/2021 00:45	WG1729390
Carbon tetrachloride	U		0.0432	0.200	1	08/26/2021 00:45	WG1729390
Chlorobenzene	U		0.0229	0.100	1	08/26/2021 00:45	WG1729390
Chlorodibromomethane	U		0.0180	0.100	1	08/26/2021 00:45	WG1729390
Chloroethane	U		0.0432	0.200	1	08/26/2021 00:45	WG1729390
Chloroform	U		0.0166	0.100	1	08/26/2021 00:45	WG1729390
Chloromethane	U		0.0556	0.500	1	08/26/2021 00:45	WG1729390
2-Chlorotoluene	U		0.0368	0.100	1	08/26/2021 00:45	WG1729390
4-Chlorotoluene	U		0.0452	0.200	1	08/26/2021 00:45	WG1729390
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	08/26/2021 00:45	WG1729390
1,2-Dibromoethane	U		0.0210	0.100	1	08/26/2021 00:45	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	08/26/2021 00:45	WG1729390
1,2-Dichlorobenzene	U		0.0580	0.200	1	08/26/2021 00:45	WG1729390
1,3-Dichlorobenzene	U		0.0680	0.200	1	08/26/2021 00:45	WG1729390
1,4-Dichlorobenzene	U		0.0788	0.200	1	08/26/2021 00:45	WG1729390
Dichlorodifluoromethane	U		0.0327	0.100	1	08/26/2021 00:45	WG1729390
1,1-Dichloroethane	0.0800	J	0.0230	0.100	1	08/26/2021 00:45	WG1729390
1,2-Dichloroethane	U		0.0190	0.100	1	08/26/2021 00:45	WG1729390
1,1-Dichloroethene	1.05		0.0200	0.100	1	08/26/2021 00:45	WG1729390
cis-1,2-Dichloroethene	66.6		0.0276	0.100	1	08/26/2021 00:45	WG1729390
trans-1,2-Dichloroethene	0.0660	J	0.0572	0.200	1	08/26/2021 00:45	WG1729390
1,2-Dichloropropane	U		0.0508	0.200	1	08/26/2021 00:45	WG1729390
1,1-Dichloropropene	U		0.0280	0.100	1	08/26/2021 00:45	WG1729390
1,3-Dichloropropane	U		0.0700	0.200	1	08/26/2021 00:45	WG1729390
cis-1,3-Dichloropropene	U		0.0271	0.100	1	08/26/2021 00:45	WG1729390
trans-1,3-Dichloropropene	U		0.0612	0.200	1	08/26/2021 00:45	WG1729390
2,2-Dichloropropane	U		0.0317	0.100	1	08/26/2021 00:45	WG1729390
Di-isopropyl ether	U		0.0140	0.0400	1	08/26/2021 00:45	WG1729390
Ethylbenzene	U		0.0212	0.100	1	08/26/2021 00:45	WG1729390
Hexachloro-1,3-butadiene	U		0.508	1.00	1	08/26/2021 00:45	WG1729390
Isopropylbenzene	U		0.0345	0.100	1	08/26/2021 00:45	WG1729390
p-Isopropyltoluene	U		0.0932	0.200	1	08/26/2021 00:45	WG1729390
2-Butanone (MEK)	U		0.500	1.00	1	08/26/2021 00:45	WG1729390
Methylene Chloride	U		0.265	1.00	1	08/26/2021 00:45	WG1729390
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	08/26/2021 00:45	WG1729390
Methyl tert-butyl ether	U		0.0118	0.0400	1	08/26/2021 00:45	WG1729390
Naphthalene	U		0.124	0.500	1	08/26/2021 00:45	WG1729390
n-Propylbenzene	U		0.0472	0.200	1	08/26/2021 00:45	WG1729390
Styrene	U		0.109	0.500	1	08/26/2021 00:45	WG1729390
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	08/26/2021 00:45	WG1729390
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	08/26/2021 00:45	WG1729390
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	08/26/2021 00:45	WG1729390
Tetrachloroethene	5.41		0.0280	0.100	1	08/26/2021 00:45	WG1729390
Toluene	0.0680	J	0.0500	0.200	1	08/26/2021 00:45	WG1729390
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	08/26/2021 00:45	WG1729390
1,2,4-Trichlorobenzene	U		0.193	0.500	1	08/26/2021 00:45	WG1729390
1,1,1-Trichloroethane	U		0.0110	0.100	1	08/26/2021 00:45	WG1729390
1,1,2-Trichloroethane	U		0.0353	0.100	1	08/26/2021 00:45	WG1729390
Trichloroethene	8.30		0.0160	0.0400	1	08/26/2021 00:45	WG1729390
Trichlorofluoromethane	U		0.0200	0.100	1	08/26/2021 00:45	WG1729390
1,2,3-Trichloropropane	U		0.204	0.500	1	08/26/2021 00:45	WG1729390
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	08/26/2021 00:45	WG1729390
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	08/26/2021 00:45	WG1729390
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	08/26/2021 00:45	WG1729390
Vinyl chloride	45.7		0.0273	0.100	1	08/26/2021 00:45	WG1729390
Xylenes, Total	U		0.191	0.260	1	08/26/2021 00:45	WG1729390
Ethyl Ether	U		0.0170	0.100	1	08/26/2021 00:45	WG1729390
Tetrahydrofuran	U		0.0900	0.500	1	08/26/2021 00:45	WG1729390
Iodomethane	U		0.242	0.500	1	08/26/2021 00:45	WG1729390
Allyl chloride	U		0.580	1.00	1	08/26/2021 00:45	WG1729390
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	08/26/2021 00:45	WG1729390
(S) Toluene-d8	*96.4*			*75.0-131*		*08/26/2021 00:45*	WG1729390
(S) 4-Bromofluorobenzene	*94.8*			*67.0-138*		*08/26/2021 00:45*	WG1729390
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*08/26/2021 00:45*	WG1729390

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	253000		8450	20000	1	08/27/2021 18:31	WG1730188

Sample Narrative:

L1392900-02 WG1730188: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	33300		379	1000	1	08/20/2021 14:49	WG1726748
Nitrate	U		48.0	100	1	08/20/2021 14:49	WG1726748
Sulfate	45800		594	5000	1	08/20/2021 14:49	WG1726748

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1950	B	102	1000	1	08/24/2021 00:24	WG1727789

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	196		28.1	100	1	08/24/2021 23:54	WG1728391
Manganese	136		0.704	5.00	1	08/24/2021 23:54	WG1728391

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	245		0.287	0.678	1	08/24/2021 12:50	WG1728223
Ethane	U		0.296	1.29	1	08/24/2021 12:50	WG1728223
Ethene	8.43		0.422	1.27	1	08/24/2021 12:50	WG1728223

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	5.46		0.548	1.00	1	08/26/2021 01:04	WG1729390
Acrylonitrile	U		0.0760	0.500	1	08/26/2021 01:04	WG1729390
Benzene	U		0.0160	0.0400	1	08/26/2021 01:04	WG1729390
Bromobenzene	U		0.0420	0.500	1	08/26/2021 01:04	WG1729390
Bromodichloromethane	U		0.0315	0.100	1	08/26/2021 01:04	WG1729390
Bromoform	U		0.239	1.00	1	08/26/2021 01:04	WG1729390
Bromomethane	U		0.148	0.500	1	08/26/2021 01:04	WG1729390
n-Butylbenzene	U		0.153	0.500	1	08/26/2021 01:04	WG1729390
sec-Butylbenzene	U		0.101	0.500	1	08/26/2021 01:04	WG1729390
tert-Butylbenzene	U		0.0620	0.200	1	08/26/2021 01:04	WG1729390
Carbon tetrachloride	U		0.0432	0.200	1	08/26/2021 01:04	WG1729390
Chlorobenzene	U		0.0229	0.100	1	08/26/2021 01:04	WG1729390
Chlorodibromomethane	U		0.0180	0.100	1	08/26/2021 01:04	WG1729390
Chloroethane	U		0.0432	0.200	1	08/26/2021 01:04	WG1729390
Chloroform	U		0.0166	0.100	1	08/26/2021 01:04	WG1729390
Chloromethane	U		0.0556	0.500	1	08/26/2021 01:04	WG1729390
2-Chlorotoluene	U		0.0368	0.100	1	08/26/2021 01:04	WG1729390
4-Chlorotoluene	U		0.0452	0.200	1	08/26/2021 01:04	WG1729390
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	08/26/2021 01:04	WG1729390
1,2-Dibromoethane	U		0.0210	0.100	1	08/26/2021 01:04	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	08/26/2021 01:04	WG1729390
1,2-Dichlorobenzene	U		0.0580	0.200	1	08/26/2021 01:04	WG1729390
1,3-Dichlorobenzene	U		0.0680	0.200	1	08/26/2021 01:04	WG1729390
1,4-Dichlorobenzene	U		0.0788	0.200	1	08/26/2021 01:04	WG1729390
Dichlorodifluoromethane	U		0.0327	0.100	1	08/26/2021 01:04	WG1729390
1,1-Dichloroethane	U		0.0230	0.100	1	08/26/2021 01:04	WG1729390
1,2-Dichloroethane	U		0.0190	0.100	1	08/26/2021 01:04	WG1729390
1,1-Dichloroethene	U		0.0200	0.100	1	08/26/2021 01:04	WG1729390
cis-1,2-Dichloroethene	5.13		0.0276	0.100	1	08/26/2021 01:04	WG1729390
trans-1,2-Dichloroethene	U		0.0572	0.200	1	08/26/2021 01:04	WG1729390
1,2-Dichloropropane	U		0.0508	0.200	1	08/26/2021 01:04	WG1729390
1,1-Dichloropropene	U		0.0280	0.100	1	08/26/2021 01:04	WG1729390
1,3-Dichloropropane	U		0.0700	0.200	1	08/26/2021 01:04	WG1729390
cis-1,3-Dichloropropene	U		0.0271	0.100	1	08/26/2021 01:04	WG1729390
trans-1,3-Dichloropropene	U		0.0612	0.200	1	08/26/2021 01:04	WG1729390
2,2-Dichloropropane	U		0.0317	0.100	1	08/26/2021 01:04	WG1729390
Di-isopropyl ether	U		0.0140	0.0400	1	08/26/2021 01:04	WG1729390
Ethylbenzene	U		0.0212	0.100	1	08/26/2021 01:04	WG1729390
Hexachloro-1,3-butadiene	U		0.508	1.00	1	08/26/2021 01:04	WG1729390
Isopropylbenzene	U		0.0345	0.100	1	08/26/2021 01:04	WG1729390
p-Isopropyltoluene	U		0.0932	0.200	1	08/26/2021 01:04	WG1729390
2-Butanone (MEK)	1.60		0.500	1.00	1	08/26/2021 01:04	WG1729390
Methylene Chloride	U		0.265	1.00	1	08/26/2021 01:04	WG1729390
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	08/26/2021 01:04	WG1729390
Methyl tert-butyl ether	U		0.0118	0.0400	1	08/26/2021 01:04	WG1729390
Naphthalene	U		0.124	0.500	1	08/26/2021 01:04	WG1729390
n-Propylbenzene	U		0.0472	0.200	1	08/26/2021 01:04	WG1729390
Styrene	U		0.109	0.500	1	08/26/2021 01:04	WG1729390
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	08/26/2021 01:04	WG1729390
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	08/26/2021 01:04	WG1729390
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	08/26/2021 01:04	WG1729390
Tetrachloroethene	0.326		0.0280	0.100	1	08/26/2021 01:04	WG1729390
Toluene	0.168	J	0.0500	0.200	1	08/26/2021 01:04	WG1729390
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	08/26/2021 01:04	WG1729390
1,2,4-Trichlorobenzene	U		0.193	0.500	1	08/26/2021 01:04	WG1729390
1,1,1-Trichloroethane	U		0.0110	0.100	1	08/26/2021 01:04	WG1729390
1,1,2-Trichloroethane	U		0.0353	0.100	1	08/26/2021 01:04	WG1729390
Trichloroethene	0.288		0.0160	0.0400	1	08/26/2021 01:04	WG1729390
Trichlorofluoromethane	U		0.0200	0.100	1	08/26/2021 01:04	WG1729390
1,2,3-Trichloropropane	U		0.204	0.500	1	08/26/2021 01:04	WG1729390
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	08/26/2021 01:04	WG1729390
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	08/26/2021 01:04	WG1729390
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	08/26/2021 01:04	WG1729390
Vinyl chloride	17.6		0.0273	0.100	1	08/26/2021 01:04	WG1729390
Xylenes, Total	U		0.191	0.260	1	08/26/2021 01:04	WG1729390
Ethyl Ether	U		0.0170	0.100	1	08/26/2021 01:04	WG1729390
Tetrahydrofuran	5.34		0.0900	0.500	1	08/26/2021 01:04	WG1729390
Iodomethane	U		0.242	0.500	1	08/26/2021 01:04	WG1729390
Allyl chloride	U		0.580	1.00	1	08/26/2021 01:04	WG1729390
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	08/26/2021 01:04	WG1729390
(S) Toluene-d8	*98.4*			*75.0-131*		*08/26/2021 01:04*	WG1729390
(S) 4-Bromofluorobenzene	*92.9*			*67.0-138*		*08/26/2021 01:04*	WG1729390
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*08/26/2021 01:04*	WG1729390

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	309000		8450	20000	1	08/27/2021 18:35	WG1730188

Sample Narrative:

L1392900-03 WG1730188: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	34700		379	1000	1	08/20/2021 15:03	WG1726748
Nitrate	U		48.0	100	1	08/20/2021 15:03	WG1726748
Sulfate	93600		594	5000	1	08/20/2021 15:03	WG1726748

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	2530	B	102	1000	1	08/24/2021 00:39	WG1727789

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1220		28.1	100	1	08/24/2021 23:57	WG1728391
Manganese	70.4		0.704	5.00	1	08/24/2021 23:57	WG1728391

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	75.9		0.287	0.678	1	08/24/2021 12:57	WG1728223
Ethane	29.3		0.296	1.29	1	08/24/2021 12:57	WG1728223
Ethene	43.4		0.422	1.27	1	08/24/2021 12:57	WG1728223

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.46		0.548	1.00	1	08/26/2021 01:24	WG1729390
Acrylonitrile	U		0.0760	0.500	1	08/26/2021 01:24	WG1729390
Benzene	0.0510		0.0160	0.0400	1	08/26/2021 01:24	WG1729390
Bromobenzene	U		0.0420	0.500	1	08/26/2021 01:24	WG1729390
Bromodichloromethane	U		0.0315	0.100	1	08/26/2021 01:24	WG1729390
Bromoform	U		0.239	1.00	1	08/26/2021 01:24	WG1729390
Bromomethane	U		0.148	0.500	1	08/26/2021 01:24	WG1729390
n-Butylbenzene	U		0.153	0.500	1	08/26/2021 01:24	WG1729390
sec-Butylbenzene	U		0.101	0.500	1	08/26/2021 01:24	WG1729390
tert-Butylbenzene	U		0.0620	0.200	1	08/26/2021 01:24	WG1729390
Carbon tetrachloride	U		0.0432	0.200	1	08/26/2021 01:24	WG1729390
Chlorobenzene	U		0.0229	0.100	1	08/26/2021 01:24	WG1729390
Chlorodibromomethane	U		0.0180	0.100	1	08/26/2021 01:24	WG1729390
Chloroethane	U		0.0432	0.200	1	08/26/2021 01:24	WG1729390
Chloroform	U		0.0166	0.100	1	08/26/2021 01:24	WG1729390
Chloromethane	U		0.0556	0.500	1	08/26/2021 01:24	WG1729390
2-Chlorotoluene	U		0.0368	0.100	1	08/26/2021 01:24	WG1729390
4-Chlorotoluene	U		0.0452	0.200	1	08/26/2021 01:24	WG1729390
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	08/26/2021 01:24	WG1729390
1,2-Dibromoethane	U		0.0210	0.100	1	08/26/2021 01:24	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	08/26/2021 01:24	WG1729390
1,2-Dichlorobenzene	U		0.0580	0.200	1	08/26/2021 01:24	WG1729390
1,3-Dichlorobenzene	U		0.0680	0.200	1	08/26/2021 01:24	WG1729390
1,4-Dichlorobenzene	U		0.0788	0.200	1	08/26/2021 01:24	WG1729390
Dichlorodifluoromethane	U		0.0327	0.100	1	08/26/2021 01:24	WG1729390
1,1-Dichloroethane	U		0.0230	0.100	1	08/26/2021 01:24	WG1729390
1,2-Dichloroethane	U		0.0190	0.100	1	08/26/2021 01:24	WG1729390
1,1-Dichloroethene	0.262		0.0200	0.100	1	08/26/2021 01:24	WG1729390
cis-1,2-Dichloroethene	100		0.0276	0.100	1	08/26/2021 01:24	WG1729390
trans-1,2-Dichloroethene	0.807		0.0572	0.200	1	08/26/2021 01:24	WG1729390
1,2-Dichloropropane	U		0.0508	0.200	1	08/26/2021 01:24	WG1729390
1,1-Dichloropropene	U		0.0280	0.100	1	08/26/2021 01:24	WG1729390
1,3-Dichloropropane	U		0.0700	0.200	1	08/26/2021 01:24	WG1729390
cis-1,3-Dichloropropene	U		0.0271	0.100	1	08/26/2021 01:24	WG1729390
trans-1,3-Dichloropropene	U		0.0612	0.200	1	08/26/2021 01:24	WG1729390
2,2-Dichloropropane	U		0.0317	0.100	1	08/26/2021 01:24	WG1729390
Di-isopropyl ether	U		0.0140	0.0400	1	08/26/2021 01:24	WG1729390
Ethylbenzene	0.0310	J	0.0212	0.100	1	08/26/2021 01:24	WG1729390
Hexachloro-1,3-butadiene	U		0.508	1.00	1	08/26/2021 01:24	WG1729390
Isopropylbenzene	U		0.0345	0.100	1	08/26/2021 01:24	WG1729390
p-Isopropyltoluene	U		0.0932	0.200	1	08/26/2021 01:24	WG1729390
2-Butanone (MEK)	U		0.500	1.00	1	08/26/2021 01:24	WG1729390
Methylene Chloride	U		0.265	1.00	1	08/26/2021 01:24	WG1729390
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	08/26/2021 01:24	WG1729390
Methyl tert-butyl ether	U		0.0118	0.0400	1	08/26/2021 01:24	WG1729390
Naphthalene	U		0.124	0.500	1	08/26/2021 01:24	WG1729390
n-Propylbenzene	U		0.0472	0.200	1	08/26/2021 01:24	WG1729390
Styrene	U		0.109	0.500	1	08/26/2021 01:24	WG1729390
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	08/26/2021 01:24	WG1729390
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	08/26/2021 01:24	WG1729390
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	08/26/2021 01:24	WG1729390
Tetrachloroethene	7.46		0.0280	0.100	1	08/26/2021 01:24	WG1729390
Toluene	0.164	J	0.0500	0.200	1	08/26/2021 01:24	WG1729390
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	08/26/2021 01:24	WG1729390
1,2,4-Trichlorobenzene	U		0.193	0.500	1	08/26/2021 01:24	WG1729390
1,1,1-Trichloroethane	U		0.0110	0.100	1	08/26/2021 01:24	WG1729390
1,1,2-Trichloroethane	U		0.0353	0.100	1	08/26/2021 01:24	WG1729390
Trichloroethene	4.72		0.0160	0.0400	1	08/26/2021 01:24	WG1729390
Trichlorofluoromethane	U		0.0200	0.100	1	08/26/2021 01:24	WG1729390
1,2,3-Trichloropropane	U		0.204	0.500	1	08/26/2021 01:24	WG1729390
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	08/26/2021 01:24	WG1729390
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	08/26/2021 01:24	WG1729390
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	08/26/2021 01:24	WG1729390
Vinyl chloride	25.7		0.0273	0.100	1	08/26/2021 01:24	WG1729390
Xylenes, Total	U		0.191	0.260	1	08/26/2021 01:24	WG1729390
Ethyl Ether	U		0.0170	0.100	1	08/26/2021 01:24	WG1729390
Tetrahydrofuran	U		0.0900	0.500	1	08/26/2021 01:24	WG1729390
Iodomethane	U		0.242	0.500	1	08/26/2021 01:24	WG1729390
Allyl chloride	U		0.580	1.00	1	08/26/2021 01:24	WG1729390
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	08/26/2021 01:24	WG1729390
(S) Toluene-d8	*96.9*			*75.0-131*		*08/26/2021 01:24*	WG1729390
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*		*08/26/2021 01:24*	WG1729390
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*08/26/2021 01:24*	WG1729390

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	237000		8450	20000	1	08/27/2021 18:38	WG1730188

Sample Narrative:

L1392900-04 WG1730188: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	39800		379	1000	1	08/20/2021 15:55	WG1726748
Nitrate	U		48.0	100	1	08/20/2021 15:55	WG1726748
Sulfate	52500		594	5000	1	08/20/2021 15:55	WG1726748

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1870	B	102	1000	1	08/24/2021 00:55	WG1727789

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	507		28.1	100	1	08/25/2021 00:01	WG1728391
Manganese	103		0.704	5.00	1	08/25/2021 00:01	WG1728391

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	117		0.287	0.678	1	08/24/2021 13:09	WG1728223
Ethane	U		0.296	1.29	1	08/24/2021 13:09	WG1728223
Ethene	9.34		0.422	1.27	1	08/24/2021 13:09	WG1728223

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.17		0.548	1.00	1	08/26/2021 01:43	WG1729390
Acrylonitrile	U		0.0760	0.500	1	08/26/2021 01:43	WG1729390
Benzene	0.0190	J	0.0160	0.0400	1	08/26/2021 01:43	WG1729390
Bromobenzene	U		0.0420	0.500	1	08/26/2021 01:43	WG1729390
Bromodichloromethane	U		0.0315	0.100	1	08/26/2021 01:43	WG1729390
Bromoform	U		0.239	1.00	1	08/26/2021 01:43	WG1729390
Bromomethane	U		0.148	0.500	1	08/26/2021 01:43	WG1729390
n-Butylbenzene	U		0.153	0.500	1	08/26/2021 01:43	WG1729390
sec-Butylbenzene	U		0.101	0.500	1	08/26/2021 01:43	WG1729390
tert-Butylbenzene	U		0.0620	0.200	1	08/26/2021 01:43	WG1729390
Carbon tetrachloride	U		0.0432	0.200	1	08/26/2021 01:43	WG1729390
Chlorobenzene	U		0.0229	0.100	1	08/26/2021 01:43	WG1729390
Chlorodibromomethane	U		0.0180	0.100	1	08/26/2021 01:43	WG1729390
Chloroethane	U		0.0432	0.200	1	08/26/2021 01:43	WG1729390
Chloroform	U		0.0166	0.100	1	08/26/2021 01:43	WG1729390
Chloromethane	U		0.0556	0.500	1	08/26/2021 01:43	WG1729390
2-Chlorotoluene	U		0.0368	0.100	1	08/26/2021 01:43	WG1729390
4-Chlorotoluene	U		0.0452	0.200	1	08/26/2021 01:43	WG1729390
1,2-Dibromo-3-Chloropropane	U		0.204	1.00	1	08/26/2021 01:43	WG1729390
1,2-Dibromoethane	U		0.0210	0.100	1	08/26/2021 01:43	WG1729390

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.0400	0.200	1	08/26/2021 01:43	WG1729390
1,2-Dichlorobenzene	U		0.0580	0.200	1	08/26/2021 01:43	WG1729390
1,3-Dichlorobenzene	U		0.0680	0.200	1	08/26/2021 01:43	WG1729390
1,4-Dichlorobenzene	U		0.0788	0.200	1	08/26/2021 01:43	WG1729390
Dichlorodifluoromethane	U		0.0327	0.100	1	08/26/2021 01:43	WG1729390
1,1-Dichloroethane	0.0640	J	0.0230	0.100	1	08/26/2021 01:43	WG1729390
1,2-Dichloroethane	U		0.0190	0.100	1	08/26/2021 01:43	WG1729390
1,1-Dichloroethene	1.10		0.0200	0.100	1	08/26/2021 01:43	WG1729390
cis-1,2-Dichloroethene	68.2		0.0276	0.100	1	08/26/2021 01:43	WG1729390
trans-1,2-Dichloroethene	U		0.0572	0.200	1	08/26/2021 01:43	WG1729390
1,2-Dichloropropane	U		0.0508	0.200	1	08/26/2021 01:43	WG1729390
1,1-Dichloropropene	U		0.0280	0.100	1	08/26/2021 01:43	WG1729390
1,3-Dichloropropane	U		0.0700	0.200	1	08/26/2021 01:43	WG1729390
cis-1,3-Dichloropropene	U		0.0271	0.100	1	08/26/2021 01:43	WG1729390
trans-1,3-Dichloropropene	U		0.0612	0.200	1	08/26/2021 01:43	WG1729390
2,2-Dichloropropane	U		0.0317	0.100	1	08/26/2021 01:43	WG1729390
Di-isopropyl ether	U		0.0140	0.0400	1	08/26/2021 01:43	WG1729390
Ethylbenzene	U		0.0212	0.100	1	08/26/2021 01:43	WG1729390
Hexachloro-1,3-butadiene	U		0.508	1.00	1	08/26/2021 01:43	WG1729390
Isopropylbenzene	U		0.0345	0.100	1	08/26/2021 01:43	WG1729390
p-Isopropyltoluene	U		0.0932	0.200	1	08/26/2021 01:43	WG1729390
2-Butanone (MEK)	U		0.500	1.00	1	08/26/2021 01:43	WG1729390
Methylene Chloride	U		0.265	1.00	1	08/26/2021 01:43	WG1729390
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	08/26/2021 01:43	WG1729390
Methyl tert-butyl ether	U		0.0118	0.0400	1	08/26/2021 01:43	WG1729390
Naphthalene	U		0.124	0.500	1	08/26/2021 01:43	WG1729390
n-Propylbenzene	U		0.0472	0.200	1	08/26/2021 01:43	WG1729390
Styrene	U		0.109	0.500	1	08/26/2021 01:43	WG1729390
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	08/26/2021 01:43	WG1729390
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	08/26/2021 01:43	WG1729390
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	08/26/2021 01:43	WG1729390
Tetrachloroethene	5.38		0.0280	0.100	1	08/26/2021 01:43	WG1729390
Toluene	0.0680	J	0.0500	0.200	1	08/26/2021 01:43	WG1729390
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	08/26/2021 01:43	WG1729390
1,2,4-Trichlorobenzene	U		0.193	0.500	1	08/26/2021 01:43	WG1729390
1,1,1-Trichloroethane	U		0.0110	0.100	1	08/26/2021 01:43	WG1729390
1,1,2-Trichloroethane	U		0.0353	0.100	1	08/26/2021 01:43	WG1729390
Trichloroethene	7.77		0.0160	0.0400	1	08/26/2021 01:43	WG1729390
Trichlorofluoromethane	U		0.0200	0.100	1	08/26/2021 01:43	WG1729390
1,2,3-Trichloropropane	U		0.204	0.500	1	08/26/2021 01:43	WG1729390
1,2,4-Trimethylbenzene	U		0.0464	0.200	1	08/26/2021 01:43	WG1729390
1,2,3-Trimethylbenzene	U		0.0460	0.200	1	08/26/2021 01:43	WG1729390
1,3,5-Trimethylbenzene	U		0.0432	0.200	1	08/26/2021 01:43	WG1729390
Vinyl chloride	45.5		0.0273	0.100	1	08/26/2021 01:43	WG1729390
Xylenes, Total	U		0.191	0.260	1	08/26/2021 01:43	WG1729390
Ethyl Ether	U		0.0170	0.100	1	08/26/2021 01:43	WG1729390
Tetrahydrofuran	U		0.0900	0.500	1	08/26/2021 01:43	WG1729390
Iodomethane	U		0.242	0.500	1	08/26/2021 01:43	WG1729390
Allyl chloride	U		0.580	1.00	1	08/26/2021 01:43	WG1729390
Trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	08/26/2021 01:43	WG1729390
(S) Toluene-d8	*97.7*			*75.0-131*		*08/26/2021 01:43*	WG1729390
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*08/26/2021 01:43*	WG1729390
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*08/26/2021 01:43*	WG1729390

Method Blank (MB)

(MB) R3697616-2 08/27/21 18:11

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1392900-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1392900-01 08/27/21 18:24 • (DUP) R3697616-4 08/27/21 18:27

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	238000	237000	1	0.505		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1391069-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1391069-03 08/27/21 19:05 • (DUP) R3697616-6 08/27/21 19:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	245000	247000	1	0.631		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3697616-1 08/27/21 18:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	98600	98.6	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3696369-1 08/20/21 10:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		379	1000
Nitrate	U		48.0	100
Sulfate	U		594	5000

L1392900-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1392900-03 08/20/21 15:03 • (DUP) R3696369-3 08/20/21 15:16

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	34700	35300	1	1.82		15
Nitrate	U	U	1	0.000		15
Sulfate	93600	96200	1	2.75		15

L1392989-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1392989-03 08/20/21 12:06 • (DUP) R3696369-6 08/21/21 00:23

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	34500	34700	1	0.746		15
Nitrate	90.5	87.0	1	3.94	J	15
Sulfate	37000	37200	1	0.689		15

Laboratory Control Sample (LCS)

(LCS) R3696369-2 08/20/21 11:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	40000	100	80.0-120	
Nitrate	8000	8100	101	80.0-120	
Sulfate	40000	40000	100	80.0-120	

L1392900-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392900-04 08/20/21 15:55 • (MS) R3696369-4 08/20/21 16:09 • (MSD) R3696369-5 08/20/21 16:22

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	39800	86800	87700	94.1	95.8	1	80.0-120			0.972	15
Nitrate	5000	U	4650	4680	93.0	93.5	1	80.0-120			0.560	15
Sulfate	50000	52500	98700	100000	92.5	95.7	1	80.0-120		E	1.61	15

L1392989-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1392989-03 08/20/21 12:06 • (MS) R3696369-7 08/21/21 00:36

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	34500	82300	95.6	1	80.0-120	
Nitrate	5000	90.5	4750	93.1	1	80.0-120	
Sulfate	50000	37000	84200	94.5	1	80.0-120	

Method Blank (MB)

(MB) R3695580-2 08/23/21 19:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	529	J	102	1000

L1392768-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1392768-02 08/23/21 20:59 • (DUP) R3695580-5 08/23/21 21:17

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	3740	3630	1	2.99		20

L1392926-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1392926-01 08/24/21 01:14 • (DUP) R3695580-8 08/24/21 01:30

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1090	1170	1	7.18		20

Laboratory Control Sample (LCS)

(LCS) R3695580-1 08/23/21 19:03

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	75000	70000	93.4	85.0-115	

L1392768-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392768-01 08/23/21 19:47 • (MS) R3695580-3 08/23/21 20:16 • (MSD) R3695580-4 08/23/21 20:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	3900	51300	50800	94.8	93.7	1	80.0-120			1.06	20

L1392900-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392900-01 08/23/21 23:19 • (MS) R3695580-6 08/23/21 23:47 • (MSD) R3695580-7 08/24/21 00:09

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	50000	1880	48100	46300	92.4	88.8	1	80.0-120			3.79	20

Method Blank (MB)

(MB) R3695973-1 08/24/21 23:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		28.1	100
Manganese	U		0.704	5.00

Laboratory Control Sample (LCS)

(LCS) R3695973-2 08/24/21 23:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	5000	5060	101	80.0-120	
Manganese	50.0	48.9	97.9	80.0-120	

L1393288-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393288-05 08/24/21 23:38 • (MS) R3695973-4 08/24/21 23:44 • (MSD) R3695973-5 08/24/21 23:47

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	5000	17700	22500	22000	96.0	86.2	1	75.0-125			2.18	20
Manganese	50.0	9010	9320	8960	622	0.000	1	75.0-125	V	V	3.95	20

Method Blank (MB)

(MB) R3695855-2 08/24/21 12:19

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1392989-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1392989-02 08/24/21 14:44 • (DUP) R3695855-3 08/24/21 14:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	289	281	1	2.81		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1393421-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1393421-02 08/24/21 16:00 • (DUP) R3695855-4 08/24/21 16:10

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	2640	2510	1	5.05		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3695855-1 08/24/21 12:12 • (LCSD) R3695855-7 08/24/21 16:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methane	67.8	66.1	64.6	97.5	95.3	85.0-115			2.30	20
Ethane	129	122	122	94.6	94.6	85.0-115			0.000	20
Ethene	127	119	127	93.7	100	85.0-115			6.50	20

L1393421-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393421-02 08/24/21 16:00 • (MS) R3695855-5 08/24/21 16:14 • (MSD) R3695855-6 08/24/21 16:21

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methane	67.8	2640	2910	2850	398	310	1	85.0-115	V	V	2.08	20
Ethane	129	U	163	150	126	116	1	85.0-115	J5	J5	8.31	20
Ethene	127	U	167	155	131	122	1	85.0-115	J5	J5	7.45	20

Method Blank (MB)

(MB) R3696881-3 08/25/21 21:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400
Ethylbenzene	U		0.0212	0.100
Ethyl ether	U		0.0170	0.100

Method Blank (MB)

(MB) R3696881-3 08/25/21 21:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.508	1.00
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	U		0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
Tetrachloroethene	U		0.0280	0.100
Tetrahydrofuran	U		0.0900	0.500
Toluene	U		0.0500	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
Allyl Chloride	U		0.580	1.00
(S) Toluene-d8	*96.9*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3696881-1 08/25/21 20:33 • (LCSD) R3696881-2 08/25/21 20:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	23.3	22.9	93.2	91.6	10.0-160			1.73	31
Acrylonitrile	25.0	22.7	23.3	90.8	93.2	45.0-153			2.61	22
Benzene	5.00	4.83	4.85	96.6	97.0	70.0-123			0.413	20
Bromobenzene	5.00	5.13	5.11	103	102	73.0-121			0.391	20
Bromodichloromethane	5.00	4.99	5.00	99.8	100	73.0-121			0.200	20
Bromoform	5.00	4.66	4.84	93.2	96.8	64.0-132			3.79	20
Bromomethane	5.00	5.07	4.95	101	99.0	56.0-147			2.40	20
n-Butylbenzene	5.00	4.98	5.07	99.6	101	68.0-135			1.79	20
sec-Butylbenzene	5.00	5.10	5.08	102	102	74.0-130			0.393	20
tert-Butylbenzene	5.00	5.22	5.15	104	103	75.0-127			1.35	20
Carbon tetrachloride	5.00	4.92	5.02	98.4	100	66.0-128			2.01	20
Chlorobenzene	5.00	5.09	5.23	102	105	76.0-128			2.71	20
Chlorodibromomethane	5.00	4.98	5.00	99.6	100	74.0-127			0.401	20
Chloroethane	5.00	4.52	4.69	90.4	93.8	61.0-134			3.69	20
Chloroform	5.00	4.96	5.10	99.2	102	72.0-123			2.78	20
Chloromethane	5.00	4.60	4.69	92.0	93.8	51.0-138			1.94	20
2-Chlorotoluene	5.00	4.97	5.20	99.4	104	75.0-124			4.52	20
4-Chlorotoluene	5.00	4.87	4.93	97.4	98.6	75.0-124			1.22	20
1,2-Dibromo-3-Chloropropane	5.00	4.82	4.90	96.4	98.0	59.0-130			1.65	20
1,2-Dibromoethane	5.00	5.18	5.09	104	102	74.0-128			1.75	20
Dibromomethane	5.00	4.73	4.90	94.6	98.0	75.0-122			3.53	20
1,2-Dichlorobenzene	5.00	4.83	4.94	96.6	98.8	76.0-124			2.25	20
1,3-Dichlorobenzene	5.00	5.05	5.21	101	104	76.0-125			3.12	20
1,4-Dichlorobenzene	5.00	5.12	5.14	102	103	77.0-121			0.390	20
trans-1,4-Dichloro-2-butene	5.00	4.57	4.60	91.4	92.0	45.0-143			0.654	20
Dichlorodifluoromethane	5.00	4.46	4.80	89.2	96.0	43.0-156			7.34	20
1,1-Dichloroethane	5.00	4.94	4.95	98.8	99.0	70.0-127			0.202	20
1,2-Dichloroethane	5.00	4.99	5.00	99.8	100	65.0-131			0.200	20
1,1-Dichloroethene	5.00	5.21	5.37	104	107	65.0-131			3.02	20
cis-1,2-Dichloroethene	5.00	4.99	5.14	99.8	103	73.0-125			2.96	20
trans-1,2-Dichloroethene	5.00	5.07	5.30	101	106	71.0-125			4.44	20
1,2-Dichloropropane	5.00	5.31	5.15	106	103	74.0-125			3.06	20
1,1-Dichloropropene	5.00	5.02	5.00	100	100	73.0-125			0.399	20
1,3-Dichloropropane	5.00	5.01	5.13	100	103	80.0-125			2.37	20
cis-1,3-Dichloropropene	5.00	5.06	4.92	101	98.4	76.0-127			2.81	20
trans-1,3-Dichloropropene	5.00	4.73	4.94	94.6	98.8	73.0-127			4.34	20
2,2-Dichloropropane	5.00	4.48	4.49	89.6	89.8	59.0-135			0.223	20
Di-isopropyl ether	5.00	4.83	5.01	96.6	100	60.0-136			3.66	20
Ethylbenzene	5.00	4.92	5.09	98.4	102	74.0-126			3.40	20
Ethyl ether	5.00	4.80	4.88	96.0	97.6	64.0-137			1.65	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3696881-1 08/25/21 20:33 • (LCSD) R3696881-2 08/25/21 20:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	5.00	5.18	5.39	104	108	57.0-150			3.97	20
Iodomethane	25.0	25.9	26.3	104	105	74.0-134			1.53	20
Isopropylbenzene	5.00	4.99	5.10	99.8	102	72.0-127			2.18	20
p-Isopropyltoluene	5.00	4.99	5.08	99.8	102	72.0-133			1.79	20
2-Butanone (MEK)	25.0	24.4	24.8	97.6	99.2	30.0-160			1.63	24
Methylene Chloride	5.00	4.97	5.11	99.4	102	68.0-123			2.78	20
4-Methyl-2-pentanone (MIBK)	25.0	24.7	25.0	98.8	100	56.0-143			1.21	20
Methyl tert-butyl ether	5.00	4.61	4.68	92.2	93.6	66.0-132			1.51	20
Naphthalene	5.00	4.66	5.00	93.2	100	59.0-130			7.04	20
n-Propylbenzene	5.00	4.94	4.99	98.8	99.8	74.0-126			1.01	20
Styrene	5.00	5.16	5.19	103	104	72.0-127			0.580	20
1,1,1,2-Tetrachloroethane	5.00	4.88	5.05	97.6	101	74.0-129			3.42	20
1,1,2,2-Tetrachloroethane	5.00	4.62	4.58	92.4	91.6	68.0-128			0.870	20
Tetrachloroethene	5.00	5.22	5.27	104	105	70.0-136			0.953	20
Tetrahydrofuran	5.00	4.73	4.75	94.6	95.0	37.0-146			0.422	24
Toluene	5.00	4.99	4.96	99.8	99.2	75.0-121			0.603	20
1,1,2-Trichlorotrifluoroethane	5.00	4.66	4.87	93.2	97.4	61.0-139			4.41	20
1,2,3-Trichlorobenzene	5.00	5.04	5.19	101	104	59.0-139			2.93	20
1,2,4-Trichlorobenzene	5.00	4.97	5.32	99.4	106	62.0-137			6.80	20
1,1,1-Trichloroethane	5.00	5.19	5.28	104	106	69.0-126			1.72	20
1,1,2-Trichloroethane	5.00	5.05	5.17	101	103	78.0-123			2.35	20
Trichloroethene	5.00	5.66	5.51	113	110	76.0-126			2.69	20
Trichlorofluoromethane	5.00	4.72	4.88	94.4	97.6	61.0-142			3.33	20
1,2,3-Trichloropropane	5.00	5.01	5.09	100	102	67.0-129			1.58	20
1,2,3-Trimethylbenzene	5.00	4.97	4.80	99.4	96.0	74.0-124			3.48	20
1,2,4-Trimethylbenzene	5.00	5.00	5.00	100	100	70.0-126			0.000	20
1,3,5-Trimethylbenzene	5.00	5.13	5.07	103	101	73.0-127			1.18	20
Vinyl chloride	5.00	4.90	4.92	98.0	98.4	63.0-134			0.407	20
Xylenes, Total	15.0	15.5	15.7	103	105	72.0-127			1.28	20
Allyl chloride	25.0	24.9	25.7	99.6	103	70.0-131			3.16	20
(S) Toluene-d8				*97.5*	*98.9*	*75.0-131*				
(S) 4-Bromofluorobenzene				*95.7*	*98.7*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*97.6*	*99.4*	*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
PES Environmental, Inc.- WA

2101 ~~1215~~ Fourth Ave., Suite 1310
Seattle, WA ~~98161~~ 98121

Billing Information:
Attn: Accounts Payable
2101 ~~1215~~ Fourth Ave., Suite ~~1350~~ 1310
Seattle, WA ~~98161~~ 98121

Pres Chk

Report to:
Brian O'Neal/Bill Haldeman

Email To:
boneal@pesenv.com;bhaldeman@pesenv.com;

Project Description:
American Linen

City/State Collected: **Seattle, WA**

Please Circle: PT MT CT ET

Phone: **206-529-3980**

Client Project #
1413.001.02.501I

Lab Project #
PESENVSWA-ALP

Collected by (print):
HRC/BLH

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: **Standard TAT**

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	FEG, MNG 250mlHDPE-HNO3	NO3, CL, SO4 9056 125mlHDPE-NoPres	NWTPHGX 40mlAmb HCl	RSK175LL 40mlAmb-HCl	TOC 250mlHDPE-HCl	V8260C 40mlAmb/MeOH10ml/Syr	V8260ULLC 40mlAmb-HCl	dry weight 4ozClr-NoPres	Remarks	Sample # (lab only)
MW-954-081921	Grab	GW ~~SS~~	64	8/19/21	800	9	X	X	X		X	X		X			-01
MW-349-081921	"	GW ~~SS~~	64	"	925	9	X	X	X		X	X		X			-02
MW-347-081921	"	GW ~~SS~~	59.6	"	1000	9	X	X	X		X	X		X			-03
MW-348-081921	"	GW ~~SS~~	64	"	1145	9	X	X	X		X	X		X			-04
		GW ~~SS~~															
		GW ~~SS~~															
		GW															
		GW															
		GW															
		GW															

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 988309885973

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	8-19-21	1620	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 0.2 °C 2.3-1.5-2.2 Bottles Received: 36

Date: 8/20/21 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Chain of Custody Page 1 of 1

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1392900

K244

Acctnum: PESENVSWA
Template: T187404
Prelogin: P846732
PM: 546 - Jared Starkey
PB: DN 5/12/21

Shipped Via: FedEX Saver

ATTACHMENT C
DATA VALIDATION REPORTS

MEMORANDUM

TO: Project File **DATE:** June 24, 2021

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.02.501I

TASK: EIM Data Validation Level EPA2A for May 2021 Supplemental Investigation Soil Samples/Well Installation 2021

LAB: Pace Analytical (Pace) Sample Delivery Groups: L1355982 and L1356967

Thirty-five (35) soil samples including two field duplicates, and two trip blank samples were collected as an individual event within the well installation effort at the Former American Linen Supply Site, in Seattle, Washington on May 17-21, 2021. The samples were delivered to Pace Analytical (Pace) of Mount Juliet, Tennessee for laboratory analysis. Selected samples were analyzed for the following parameters:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260D; and
- Total Solids by USEPA Method 2540 G-2011.

The quality assurance review of the laboratory data associated with SDGs L1355982 and L1356967 are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Sample Receipt, Preservation and Handling

The samples were delivered to the project laboratory in coolers under standard chain-of-custody protocols. Review of Pace's notes on the chain of custody form indicates that all samples were received in good condition below the recommended preservation temperature 6.0°C. No data

qualifications were assigned due to sample receipt or temperature preservation issues with the following discussion:

- SDG L1356967: Chain of custody notes indicate a non-conformance and Pace was contacted to clarify the sample receipt issue(s). Per Pace's email (June 24, 2021) communication one of two vials were received broken for samples MW-345-58 and MW-2023-47. Since two containers were provided for each soil sample the associated analytical results are not impacted.

Holding Times

USEPA Method 8260D:
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils (preserved waters) from the date of sample collection. All holding time criteria were met.

Total Solids by USEPA Method 2540 G-2011:
Samples were analyzed slightly past the USEPA recommended holding time of seven days for total solids. No action is taken since impacts to the reported results are considered negligible.

Initial and Continuing Calibration

USEPA Method 8260D (VOCs):
Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. Pace indicated within the laboratory report that continuing calibration verification (CCV) criteria for were not met for the following:

- All SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory "C3" to indicate that percent difference CCV is below laboratory acceptance criteria and showing low bias. **Associated sample results with laboratory qualified (C3) results are estimated with low bias and qualified (J-/UJ). Results reported below the RDL are estimated (J) and bias is not assigned.**

- All SDGs: *USEPA Method 8260D* - Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory "C4" to indicate that percent difference CCV is below laboratory acceptance criteria and showing low bias. **Associated sample results with laboratory qualified (C4) results are estimated with low bias and qualified (J-/UJ). Results reported below the RDL are estimated (J) and bias is not assigned.**

Method Blank Results

USEPA Method 8260D:

Laboratory method blanks are included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the method reporting limits (RDLs) with the following exceptions:

- SDG L1355982 - Analytical batch WG1678061: A low level of methylene chloride is detected in the method blank. No action is needed since methylene chloride is not detected in the associated samples.

- SDG L1355982 - Analytical batch WG1678763: A low level of methylene chloride is detected in the method blank. No action is needed since methylene chloride is not detected in the associated samples.

Total Solids by SM 2540 G 2011:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

Trip Blank Results

USEPA Method 8260D
Two trip blanks (TB-051921 and TB-052121) were collected and submitted for analysis. The target analytes were not detected in the trip blanks at or above the RDLs with the following exceptions:

- SDG L1355982: Low levels of styrene, toluene, 1,2,4-trimethylbenzene, and total xylenes are detected in the trip blank (TB-051921). No action is needed for styrene or 1,2,4-trimethylbenzene since these are not detected in the associated samples. Actions are as follows:

    - **Associated sample toluene (MW-349-56, MW-349-66, MW-349-68, MW-348-60, MW-348-69, MW-347-58, MW-346-41.5, and MW-346-47) results are qualified (U) as non-detect due to trip blank contamination.**

    - **Associated sample total xylene (MW-349-66, MW-348-60, MW-347-54.5, MW-347-58, MW-346-41.5, MW-346-47, MW-346-41.5, MW-346-47, and MW-346-54.5) results are qualified (U) as non-detect due to trip blank contamination.**

- SDG L1356967: A low level of toluene is detected in the trip blank (TB-052121). **Associated sample toluene (MW-345-47, MW-345-58, and MW-350-64.5) results are qualified (U) as non-detect due to trip blank contamination.**

Field, Rinsate, or Equipment Blank Results

Field, rinsate or equipment blanks were not collected.

Field Duplicate Analyses

Field duplicate pairs were submitted and analyzed. Field duplicate sample pairs are as follows:

- SDG L1355982: Samples MW-347-44.5 and MW-2022-44.5
- SDG L1356967: Samples MW-345-47 and MW-2023-47

Target analyte results are comparable and within a relative percent difference (RPD) of 30% (or $\pm$ <2X RDL) for the field duplicate pairs with the following exceptions:

- SDG L1355982: Samples MW-347-44.5 and MW-2022-44.5 RPD results for trichloroethene, and vinyl chloride are greater than 30%. **Trichloroethene and vinyl chloride results for the field duplicate pair are estimated and qualified (J).**

- SDG L1356967: Samples MW-345-47 and MW-2023-47 RPD result for tetrachloroethene is greater than 30%. **Tetrachloroethene results for the field duplicate pair are estimated and qualified (J).**

Laboratory Duplicate Analyses

USEPA Method 8260D:
Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

Moisture by Method 2540 G-2011:
Laboratory duplicate samples were performed on client and non-client samples associated with the analytical batches. The RPDs for percent moisture are within the laboratory control limit of 20% RPD.

Surrogate Recoveries

USEPA Method 8260D:
The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, and the method blanks are within the laboratory surrogate control limits for all the analyses with the following exception:

- SDG L1355982: Surrogate recovery is above criteria on one of the associated non-client matrix spike samples. No action is needed since associated samples are not impacted.

Matrix Spike/ Matrix Spike Duplicates

USEPA Method 8260D:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on non-client samples. The MS/MSD percent recoveries (%R's) and RPDs for the target compounds are within the laboratory control criteria for soil with the following exceptions:

- SDG L1355982: MS/MSD (analytical batch WG1678061) was performed on a non-client sample within the analytical batch. Recovery for several targets are laboratory qualified (J5 or V) to indicate matrix interference or a high concentration. Two target analyte RPDs were recovered above lab criteria and laboratory qualified (J3). No action is taken since the spike was performed on a non-client sample. Refer to LCS and field duplicate results for accuracy and precision data.

Laboratory Control Samples

USEPA Method 8260D:
Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed by USEPA Method 8260D. In some cases, only an LCS was analyzed. Refer to matrix spike duplicate or field duplicate results in these cases. The LCS or LCS/LCSD %R's and RPDs for the target compounds are within the laboratory control criteria for soils with the following exceptions:

- SDG L1355982: LCSD (analytical batch WG1681785) recovery for trans-1,4-dichloro-2-butene is laboratory qualified (J3) to indicate an elevated RPD exceeding laboratory criteria. No action is taken since the spike recoveries are within acceptance criteria but are recovered wide.

- SDG L1356967: LCSD (analytical batch WG1679467) recovery for trans-1,4-dichloro-2-butene and 1,2,3-trichloropropane are laboratory qualified (J3) to indicate an elevated RPD exceeding laboratory criteria. No action is taken since the spike recoveries are within acceptance criteria but are recovered wide.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory reports with the following discussion:

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered, as appropriate, into the EDDs.

Quantitation Limits

Results of all analyses were reported based on standard laboratory RDLs. The reported RDLs are considered appropriate for this project. RDLs in some all cases are raised for method-required dilutions. No data qualifiers were warranted based upon standard detection limits.

Completeness

The samples were collected and analyzed as requested. Data completeness is 100%.

Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

MEMORANDUM

TO: Project File **DATE:** July 12, 2021

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: SDOT

PROJECT #: 1413.001.02.501I

TASK: EIM Data Validation Level EPA2A for Supplemental Remedial Investigation (RI) June 2021 – Groundwater Samples

LAB: Pace Sample Delivery Groups (SDGs): L1360894 and L1361280

Eleven (11) groundwater samples including one field duplicate, one equipment blank, and one trip blank were collected for the Supplemental RI June 2021 sampling at the Former American Linen Supply Site, in Seattle, Washington. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260D;
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B.

Analytical results are reported in SDGs L1360864 and L1361280. The quality assurance review of the laboratory data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C with the following discussions:

- SDG L1361280: Associated sample cooler (six samples and one equipment blank) was received on June 3, 2021, at 8° C and above the USEPA recommended temperature possibly due to a one-day shipping delay. Since the exceedance is marginal and below 10° C no action is taken in this case.

Holding Times

USEPA Method 8260D:
All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B:
All samples were analyzed within the USEPA recommended holding time for iron and manganese of 180 days for preserved waters from the date of sample collection. All holding time criteria are met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria are met with the following exception:

- SDG L1361280: Samples were collected on June 1 and analyzed for nitrate nine days past holding time on June 12, 2021. Nitrate analyses exceeded the recommended holding time of 48 hours for nitrate. **Non-detected nitrate results (samples MW-349-060121, MW-344-060121, MW-347-060121, and MW-350-060121) are rejected (R) due to gross holding time exceedance. Remaining nitrate results (samples MW-345-060121 and MW-348-060121) are less than the RDL and are qualified as estimated (J), without bias (less than the RDL), due to holding time exceedance.**

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however Pace's notes indicate the following:

- Multiple SDGs - *USEPA Method 8260D:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory "C3" to indicate that percent difference CCV is below laboratory acceptance criteria and showing low bias. Low level reporting limit check standard (sensitivity) requirements are within criteria. **Associated sample results with laboratory qualified (C3) results are estimated with low bias and qualified (J-/UJ). Results reported below the RDL are estimated (J) and bias is not assigned.**

- Multiple SDGs - *USEPA Method 8260D:* Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batches in each SDG. These compounds are qualified by the laboratory "C5" to indicate that percent difference CCV is above laboratory acceptance criteria and showing high bias. **Associated sample results (detects) with laboratory qualified (C5) results are estimated with high bias and qualified (J+).**

Method Blank Results

USEPA Method 8260D:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs).

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

USEPA Method 6020B and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, Nitrite, and TOC):
Laboratory method blanks were included with the analytical batches per method requirement. Target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL. General chemistry and/or metal blank detections are shown below:

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1360894	WG1683866	9060A	TOC	413	J	1000	µg/L	NO
L1361280	WG1683866	9060A	TOC	413	J	1000	µg/L	NO
L1361280	WG1683867	9060A	TOC	290	J	1000	µg/L	YES

Target analytes were detected in method blanks at low levels with no impact to the associated samples except for a low-level TOC detection in one of the samples associated with SDG L1361280 (sample MW-344-060121). **TOC result for sample MW-344-060121 is qualified as not detected (U) due to blank contamination.** For additional discussion refer to the section on Equipment Blank Results.

Trip Blank Results

USEPA Method 8260D:
One trip blank (TB-060221) was collected and analyzed for VOCs. The target analytes were not detected in the trip blanks at or above the RDLs with the following exception:

- SDG L1360894: A low level of acetone is detected below the RDL in the trip blank (TB-050721). No action is needed since all associated sample acetone detections are above the RDL. For additional discussion refer to the section on Equipment Blank Results.

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:
One equipment blank (EQ-060121 associated with SDG L1361280) was collected. Details are as follows:

- An equipment blank (EQ-060121) is associated with all samples collected from the bladder pump on June 1, 2021. Low levels of chloride, TOC, manganese, and VOCs are detected in the equipment blank. No action is taken for chloride and manganese detections since these analytes are either not detected in the associated samples or sample detections are far greater than detection in the equipment blank. Low levels of VOCs (acetone, 2-butanone (MEK), and tetrachloroethene) are detected in the equipment blank. Actions for TOC, acetone, MEK, and tetrachloroethene are as follows:
    - TOC is detected in the equipment blank at 268 µg/L and in the associated method blank at 290 µg/L. Sample MW-344-060121 TOC detection is 924 µg/L and under the RDL of 1000 µg/L. **TOC result for sample MW-344-060121 is qualified as not detected (U) due to blank contamination.**
    - Acetone is detected in the equipment blank above the RDL at 5.63 µg/L. Per Guidance, acetone is a common laboratory contaminant, and the action level is 2X the blank contamination. **Associated acetone results for samples MW-345-060121, MW-348-060121, MW-344-060121, and MW-347-060121 are detected above the RDL and below the established action level. These results are qualified as not detected (U) due to equipment blank contamination.**
    - 2-Butanone (MEK) is detected above the RDL at 2.74 µg/L. Per Guidance, MEK is a common laboratory contaminant, and the action level is 2X the blank contamination. **Associated MEK result in sample MW-349-060121 is qualified as not detected (U) due to equipment blank contamination.**
    - Associated tetrachloroethene result is detected below the RDL at 0.0460 µg/L. **Associated tetrachloroethene detection for sample MW-344-060121 is below**

the RDL and qualified as not detected (U) due to equipment blank contamination.

Field Duplicate Analyses

A field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1360894: Sample MW-346-060221 and field duplicate sample MW-954-060221. Target analyte results are comparable and within a relative percent difference (RPD) of 30% (± 1x RDL for groundwater results <5X the RDL) for the field duplicate pair.

Laboratory Duplicate Analyses

USEPA Method 8260D:
Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020B:
Laboratory duplicate samples were not analyzed. Refer to MS/MSD results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, Nitrite, and TOC):
Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. Laboratory duplicates were not reported with the TOC data. Refer to the field duplicate results for precision data. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control RPD limits or ± 1x RDL for groundwater results <5X the RDL.

Surrogate Recoveries

USEPA Method 8260D:
The surrogate recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses on associated samples.

Laboratory Control Samples

USEPA Method 8260D:
Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260D method. The LCS % Rs or LCS/LCSD % Rs and RPDs for all target compounds are within the laboratory control criteria for waters with the following discussions:

- SDG L1360894 - Analytical batch WG1685408: LCS/LCSD RPD recovery for tetrahydrofuran is greater than laboratory acceptance criteria and laboratory qualified (J3). No action is taken since both LCS/LCSD % recoveries are within laboratory acceptance criteria. LCS recovery for 1,2,3-trimethylbenzene is above control limit criteria and laboratory qualified (J4). No action is needed since 1,2,3-trimethylbenzene is not detected in the associated samples.
- SDG L1361280 - Analytical batch WG1684061: LCS/LCSD RPD recoveries for multiple compounds are greater than laboratory acceptance criteria and laboratory qualified (J3). No action is taken since both LCS/LCSD % recoveries are within laboratory acceptance criteria with two exceptions. LCS or LCSD recoveries for tetrahydrofuran and 1,2,3-trimethylbenzene are above control limit criteria and laboratory qualified (J4). No action is needed since these compounds are not detected in the associated samples with one exception:

    - **1,2,3-Trimethylbenzene is detected in sample MW-350-060121 and qualified as estimated (J) due to an elevated LCSD recovery.**

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The LCS/LCSD % Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:
The LCS % Rs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, Nitrite, and TOC):
The LCS % Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260D:
MS/MSD spike analyses were not performed. Refer to LCS/LCSD and field duplicate results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
MS/MSD spike analyses were performed on a non-client sample associated with both SDGs. Recoveries and RPD are elevated, and laboratory qualified (J5 or J3). No action is taken on this basis since the spike was performed on a non-client sample within the analytical batch. Refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data.

USEPA Method 6020B:
MS/MSD analyses were performed on non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDG L1360894: Manganese MSD recovery is below criteria however no action is needed since the spike was performed on a non-client sample. Refer to LCS or field duplicate data for accuracy and precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, Nitrite, and TOC):
MS or MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following discussion:

- SDG L1360894: Matrix spikes were performed on client and on non-client samples. Sulfate and chloride spike results are laboratory qualified (E) to indicate that the sample amount exceeds the upper calibration limit. No action is taken for associated non-client samples within the analytical batch.

- SDG L1361280: Matrix spikes were performed on client and on non-client samples. Sulfate spike results (on client sample MW-349-060121) are laboratory qualified (E) to indicate that the sample amount exceeds the upper calibration limit. No action is taken since the spike recovery is within control limit criteria. Chloride spike results on a non-client sample are laboratory qualified (E, V) due to both matrix interference and a sample amount that exceeds the upper calibration limit. No action is taken for associated non-client samples within the analytical batch.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. No action is taken other than to note this.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use with the following exceptions:

- SDG L1361280: Samples were collected on June 1 and analyzed for nitrate on June 12, 2021. **Non-detect nitrate results (samples MW-349-060121, MW-344-060121, MW-347-060121, and MW-350-060121) are rejected and qualified (R) due to gross holding time exceedance.**

MEMORANDUM

TO: Project File **DATE:** September 15, 2021

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: American Linen Data Validation

PROJECT #: 1413.001.02.501I

TASK: EIM Data Validation Level EPA2A for Mercer – 2021 Q3 Groundwater Samples

LAB: Pace Sample Delivery Group (SDGs): L1392302, L1392298, and L1392900

Eleven groundwater samples (including a field duplicate) and one trip blank were collected August 18-19, 2021, from monitoring wells associated with the remedial investigation addendum investigation on SDOT Mercer Parcels in Seattle, WA. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. The samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260D;
- VOCs (dissolved gases – methane, ethane, and ethene) by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (chloride, nitrate, and sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020B.

The quality assurance review of the laboratory data associated with SDGs L1392302, L1392298, and L1392900 are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020) and USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

DATA VALIDATION

Completeness

The sample was collected and analyzed as requested.

Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation of 6°C. The samples were received in good condition. No data are qualified based upon the sample collection and preservation information.

Holding Times

USEPA Method 8260D:
The samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria are met.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

USEPA Method 6020B:
The samples were analyzed within the USEPA recommended holding time for iron and manganese of 180 days for preserved waters from the date of sample collection. All holding time criteria are met.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for the preserved water sample from the date of sample collection. All holding time criteria are met.

Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable. Pace's case narrative and sample narrative notes do not indicate any issues with calibration.

Method Blank Results

USEPA Method 8260D:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes are not detected in the method blanks at or above the reporting detection limits (RDLs).

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

Metals and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL. Metals are not detected in the method blanks and general chemistry blank detections are shown below:

SDG	Batch	Method	Analyte	Method Blank Result	Qualifier	RDL	Units	Associated Result(s) Qualified
L1392298	WG1727289	9060A	TOC	232	J	1000	µg/L	NO
L1392298	WG1727781	9060A	TOC	291	J	1000	µg/L	NO
L1392302	WG1727289	9060A	TOC	232	J	1000	µg/L	NO
L1392900	WG1727789	9060A	TOC	529	J	1000	µg/L	NO

The target analyte (TOC) was detected in the method blanks at low levels. No action is taken on this basis.

Trip Blank Results

USEPA Method 8260D:
A trip blank (TB-081821 – SDG L1392298) was collected and submitted. The target analytes are not detected in the trip blank at or above the RDLs.

Field, Rinsate, or Equipment Blank Results

All Analytical Methods:
Field, rinsate, and/or equipment blanks were not collected.

Field Duplicate Analyses

A field duplicate pair was submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1392900: Sample MW-348-081921 and field duplicate MW-954-081921. Target analyte results are comparable and within a relative percent difference (RPD) of 30% (± 1x RDL for groundwater results <5X the RDL) for the field duplicate pair with the following exception:
    - Field duplicate results for iron are not comparable and greater than 30% RPD. **Iron field duplicate results are qualified as estimated (J).**

Laboratory Duplicate Analyses

USEPA Method 8260D:

Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
Laboratory duplicate sample analyses were performed on non-client samples within the analytical batch. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

USEPA Method 6020B:
Laboratory duplicate samples were not analyzed. Refer to MS/MSD results for precision data.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
Laboratory duplicate sample analyses were performed on client samples and/or on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control RPD limits or $\pm$ 1x RDL for groundwater results <5X the RDL.

Surrogate Recoveries

USEPA Method 8260D:
The surrogate recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

Laboratory Control Samples

USEPA Method 8260D:
Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260D method. The LCS % Rs or LCS/LCSD % Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:
The LCS/LCSD % Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

USEPA Method 6020B:
The LCS % Rs for the target compounds (iron and manganese) are within the laboratory control criteria for waters.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
The LCS % Rs for general chemistry parameters are within the laboratory control criteria for waters.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260D:
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to laboratory control sample results for precision and accuracy results.

Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:

MS/MSD analyses were performed on a non-client sample. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD and laboratory duplicate data for accuracy and precision data. The MS/MSD RPDs are acceptable and within laboratory control limit criteria for water samples with the following discussions:

- SDG L1392900: MS/MSD analyses were performed on a non-client sample within the analytical batch (WG1728223). MS/MSD % Rs are laboratory qualified due to high sample concentration four times greater than the spike amount or high recoveries. No action is taken since the matrix spike was performed on a non-client sample.

USEPA Method 6020B:
MS/MSD analyses were performed on non-client samples within the analytical batches. The MS/MSD % Rs and RPD are acceptable and within laboratory control limit criteria for water.

General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):
MS or MS/MSD analyses were performed on client and/or on non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following discussions:

- SDGs L1392298 and L1392302: Three sets of MS/MSD analyses were performed on non-client samples within the analytical batch (WG1725975). Results are laboratory qualified due to low matrix spike recovery, matrix interference, or elevated concentrations. No action is taken since the spikes were performed on non-client samples.

Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Electronic data deliverables (EDDs) for this SDG was provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

Compound Identification and Quantitation Limits

Results of the analyses are reported based on laboratory RDLs for all compounds. RDLs for all targets or selected compounds are elevated in several samples due to method-required dilutions. No action is taken other than to note this.

Data Assessment

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.