PHASE II ENVIRONMENTAL SITE ASSESSMENT
South Main Street Property
24, 28, and 32 South Main Street
Hartford, Wisconsin

U.S. EPA BROWNFIELD COOPERATIVE AGREEMENT
No. BF-00E02304-0

EPA ACRES Nos.: 239366, 239364, and 239362
WDNR BRRTS No. 02-67-220908

Prepared for:
Washington County
333 East Washington Street
West Bend, WI 53095

Prepared by:
Stantec Consulting Services Inc.
12075 North Corporate Parkway
Suite 200
Mequon, WI 53092

August 25, 2020
Stantec Project No.: 193706313

TABLE OF CONTENTS

APPENDICES

CERTIFICATION

"I, Erin N. Gross, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wisconsin Administrative Code (WAC)."

Erin N. Gross, PG

QUALITY ASSURANCE REVIEW

Author

Rex Key, EIT
Geological Engineer in Training

Technical Reviewer

Erin N. Gross, PG
Staff Geologist

Independent Reviewer

Richard J. Binder, PG, CPG
Senior Associate

1.0 EXECUTIVE SUMMARY

Stantec Consulting Services Inc. (Stantec) prepared this Phase II Environmental Site Assessment (ESA) report on behalf of Washington County, Wisconsin. The report documents field sampling and associated laboratory analyses performed at the 0.33-acre 24, 28 and 32 South Main Street Property which consists of three contiguous parcels situated along the eastern boundary of South Main Street in downtown Hartford, Wisconsin, herein referred to as the "Property". The purpose of the Phase II ESA was to evaluate current soil and groundwater conditions related to recognized environmental conditions (RECs) identified as part of a Phase I ESA of the Property. The Phase II ESA scope of work was completed in accordance with a Site-Specific Sampling and Analysis Plan (SSSAP) prepared by Stantec and submitted to the EPA on October 15, 2019. The SSSAP was approved by EPA on October 18, 2019.The work was performed using hazardous substances and petroleum brownfields funding awarded to Washington County by the EPA in 2017 as part of Coalition Community Wide Brownfields Assessment Grant No. BF 00E02304-0.

On October 23, 2019 and March 30, 2020, Stantec personnel completed 13 borings at the Property, seven of which were converted to temporary groundwater monitoring wells (SB-1 through SB-6 and TW-1 through TW-7). Select soil and groundwater samples were collected during site investigation activities and were submitted for volatile organic compounds (VOCs), eight Resource Conservation and Recovery Act (RCRA) metals (i.e., arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), and/or polynuclear aromatic hydrocarbons (PAHs) laboratory analysis. Concentrations measured for each constituent were compared to current State of Wisconsin soil and groundwater standards, as applicable.

Based on the results of the Phase II ESA, the following Conclusions and Recommendations are made.

CONCLUSIONS

Soil

Fill material consisting of gravel and sand was observed to extend from the ground surface to a maximum depth of 10 feet below ground surface (ft bgs). Native soil was present underlying these areas consisting of gravel, sand, clayey sand, and clay.

Arsenic was detected at concentrations exceeding Chapter (ch.) NR 720 Wisconsin Administrative Code (WAC) Industrial Direct Contact (IDC) residual contaminant level (RCL) (ch. NR 720 WAC IDC RCL) and/or ch. NR 720 WAC Non-Industrial Direct Contact (NIDC) RCL (ch. NR 720 WAC NIDC RCL), but below the background threshold value (BTV). Lead and silver exceeding the ch. NR 720 WAC groundwater protection RCL are also present onsite, although lead concentrations were all below the BTV.

Various VOCs were detected in the soil samples during the investigation; however, none were reported at concentrations exceeding their respective ch. NR 720 WAC IDC RCL or ch. NR 720 WAC NIDC RCL. 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, tetrachloroethene (PCE), and trichloroethene (TCE) were reported at concentrations exceeding their respective ch. NR 720 WAC groundwater protection RCL.

Various PAHs were reported at concentrations exceeding their respective ch. NR 720 WAC IDC RCL, ch. NR 720 WAC NIDC RCL and/or groundwater protection RCL. To assess the cumulative impact of the PAHs, particularly the carcinogenic PAHs (cPAHs), a risk assessment using the WDNR's cPAH calculator was conducted on the soil samples where PAHs were detected. According to the analysis, only five soil samples failed the cumulative cPAHs risk assessment. The detections appear to be related to fill material located at the Property.

The areas where detected concentrations of analyzed constituents are above RCLs are currently capped with asphalt and do not appear to currently pose a risk with respect to direct contact or infiltration of groundwater.

Groundwater

Groundwater was encountered between approximately 6 and 11 ft bgs in temporary wells installed on the Property. Detected groundwater concentrations of benzo(a)pyrene, benzo(b)fluoranthene, and chrysene exceeded the ch. NR 140 WAC enforcement standard (ES) in samples collected from temporary wells TW-1 and TW-7. Given the relatively low solubility of the detected constituents, it is possible that the detected concentrations are biased high due to the presence of colloidal material in the samples. Additionally,

groundwater concentrations of PCE were detected at levels exceeding the ch. NR 140 WAC ES in samples from TW-5, located on the eastern portion of the 24 South Main Street parcel. Samples from temporary wells TW-2, TW-4, and TW-6 had groundwater concentrations of PCE above the ch. NR 140 WAC preventive action limit (PAL). The extent of release to groundwater is undefined. Although groundwater flow direction was not evaluated utilizing groundwater elevation measurements during the Phase II ESA, groundwater flow is likely to the northeast toward the Rubicon River.

Vapor

No vapor sampling was performed as part of this assessment. However, given the concentrations of VOCs detected in site soil and groundwater samples and the proximity of structures, vapor intrusion is a risk.

Migration Pathways

Based on available records for the area provided by the Wisconsin Department of Natural Resources (WDNR), a stormwater utility is present along the northern Property boundary and extends toward South Main Street, where other underground utilities are present. The backfill material associated with the utilities may be a preferential path for contaminant movement.

RECOMMENDATIONS

Based on the results of the Phase II ESA, select analyzed constituents were detected at concentrations above applicable soil and groundwater standards. The detections appear to be related to historic use of the Property as a drycleaner and the presence of imported fill. Additional investigation per ch. NR 716 WAC requirements is recommended to further evaluate the source(s) and extent of release(s)/placement of fill materials and assess appropriate future actions. It is also recommended that a copy of this report be submitted to the WDNR.

2.0 INTRODUCTION

Stantec prepared this Phase II ESA report on behalf of Washington County. The report documents field sampling and associated laboratory analyses performed on the 0.33-acre Property located at 24, 28 and 32 South Main Street in Hartford, Wisconsin. The purpose of the Phase II ESA was to evaluate current soil and groundwater conditions related to RECs identified as part of a Phase I ESA of the Property (Stantec, 2019b) that may pose an environmental risk. The Phase II ESA scope of work was completed in accordance with a SSSAP prepared by Stantec and submitted to the EPA on October 15, 2019 (Stantec, 2019c). The SSSAP was approved by EPA on October 18, 2019 and references QA/QC measures detailed in a QAPP previously prepared by Stantec and approved by EPA (Stantec, 2015, 2018, and 2019a).

The work was performed using hazardous substances and petroleum brownfields funding awarded to Washington County by the EPA in 2017 as part of Coalition Community Wide Brownfields Assessment Grant No. BF 00E02304-0. The eligibility for use of EPA funding was approved by the EPA (hazardous substances; February 13, 2019) and the Wisconsin Department of Natural Resources (WDNR; petroleum; February 26, 2019) prior to assessment activities. The EPA ACRES Numbers for the Property parcels at 24, 28 and 32 South Main Street are 239366, 239364, and 239362, respectively. The individual sites that comprise the Property are correlated with other site information in the table in Section 2.1.

2.1 SITE DESCRIPTION/BACKGROUND

The Property consists of three contiguous parcels situated along the eastern boundary of South Main Street in the northwest ¼ of the northwest ¼, Section 21, Township 10 North, Range 18 East in the City of Hartford, Wisconsin. The Property extends southwards from 24 South Main Street (parcel 2103023026) to 28 South Main Street (parcel 2103023027) and ends with 32 South Main Street (parcel 2103023028) at the southernmost point. The Property is bordered by commercial properties on all sides and the Property and surrounding properties are zoned “General Business District” (Washington County Ascent Land Records Suite, 2020). The general location and local topography are illustrated on Figure 1.

The Property is currently a paved asphalt parking lot absent of buildings totaling approximately 0.33-acres of land. The Property was previously utilized for commercial purposes such as a dry cleaner, auto repair (with at least two gasoline underground storage tanks (USTs) located within South Main Street), a black smith, and a wagon shop. The general layout of the Site, including the approximate property boundary locations, is illustrated on Figure 2.

2.2 ENVIRONMENTAL CONCERNS

The completed Phase I ESA at the Property identified the following RECs:

- The Property, specifically 28 South Main Street, is an open WDNR BRRTS site (02-67-220908, Former Jerry’s Dry Cleaning) with PCE and gasoline contamination in the soil and groundwater. The dry cleaner operated at some point between 1966 and 1992. Groundwater and soil contamination were noted directly west of the Property in a 1998 site investigation. The groundwater PCE concentration detected at this location was above the ch. NR 140 WAC ES. According to the 2015 excavation management plan, PCE contaminated soil was noted to exist directly west of 28 South Main Street (at soil probe GP-13) at 0 to 6 ft bgs and petroleum and chlorinated VOC groundwater contamination at 6 to 8 ft bgs;
- Historical industrial use of the Property and adjacent properties that may have resulted in releases of petroleum products and/or hazardous substances; and
- Residual petroleum-contaminated soil and groundwater that may extend onto the Property from the former Hartford Mobil/Shell service station located at 45 South Main Street, approximately 70 feet upgradient of the Property.

The greatest potential environmental risks and liability associated with the Property appear to be previous industrial and commercial operations (i.e. dry cleaner and auto repair facility) at the Property and documented upgradient soil and groundwater contamination from a former gas station nearby the Property. Common contaminants associated with the potential environmental concerns include VOCs, PAHs and/or RCRA metals.

Unknown materials could have been used on-site as fill to accommodate the steep topography observed on the Property. Common contaminants associated with fill materials include PAHs and/or RCRA metals. This Phase II ESA was performed in an effort to evaluate potential releases of these contaminants to the soil and groundwater.

3.0 DESCRIPTION OF INVESTIGATION

Field activities completed in accordance with the QAPP (Stantec, 2015; Stantec, 2018 and Stantec, 2019a) and SSSAP (Stantec, 2019c) are discussed in the following subsections.

3.1 SOIL

Two soil sampling events were performed by Stantec as part of Phase II ESA investigation activities. Digger's Hotline marked underground utility lines prior to the initiation of field activities onsite. Additionally, geophysical surveys utilizing ground penetrating radar (GPR) survey techniques were performed on October 23, 2019 and March 30, 2020 to provide additional utility location.

Soil sampling was performed on October 23, 2019 by Earth Solutions LLC of St. Charles, Illinois, using a track-mounted direct push (Geoprobe®) sampler. Logging, field screening, and processing of soil samples for laboratory analysis was conducted by Erin Gross, PG (Stantec personnel) to advance nine soil borings (SB-1 through SB-6 and TW-1 through TW-3) to varying maximum depths ranging between 5 and 15 ft bgs at the Property. The soil boring locations are illustrated on Figure 2.

On March 30, 2020 Probe Technologies, Inc. of West Bend, Wisconsin, utilized a truck-mounted direct-push (Geoprobe®) sampling under Stantec personnel supervision to advance four additional soil borings (TW-4 through TW-7) to varying maximum depths ranging between 11 and 15 ft bgs at the Property. Rex Key, a Stantec Geological Engineer in Training, logged soil borings, field screened soil samples, and collected soil samples for laboratory analysis during this event. The soil boring locations are illustrated on Figure 2.

All 13 of the soil borings were advanced in areas covered by asphalt. Soil samples were collected continuously at each boring location from the ground surface to the respective maximum boring depths. Hydraulic probe sampling barrels were decontaminated with an Alconox® equivalent wash and water rinse prior to the collection of each soil sample. New disposable plastic "sleeve" liners were used for the collection of each soil sample to minimize the potential for cross contamination between samples.

Soil samples were visually and physically examined by Stantec personnel and observations made of the general lithology (percentages of gravel, sand, silt, and clay), visible layering, evidence of non-native fill/anthropogenic materials, indications of chemical or other staining, odors, and other distinctive features. Portions of the soil from approximately every two-foot interval were field screened by Stantec for the presence of VOCs using a photoionization detector (PID) equipped with an 11.7 electronvolt (eV) lamp and calibrated to the 100 parts per million isobutylene gas calibration standard. Approximately three to six inches of soil core from each two-foot interval was placed into Ziploc® storage bags, sealed, labeled, and stored for a period of approximately one-half hour. The samples were tested for VOC vapors by piercing the side of each Ziploc® bag with the tip of the PID probe and then recording the maximum meter reading within an approximate five second interval. Soil boring logs detailing field observations and PID reading are included in Appendix A.

Following soil sampling, three and four soil borings were completed as temporary groundwater monitoring wells during the October 2019 and March 2020 sampling events, respectively. The temporary groundwater monitoring well completion is discussed further in Section 3.2. Boreholes not completed as temporary wells were immediately abandoned in accordance with Chapter NR 141 Wisconsin Administrative Code (NR 141) requirements by backfilling with granular bentonite. Borehole abandonment forms are included in Appendix A.

Soil sample selection for laboratory analysis was performed in accordance with Table 1 of the SSSAP (Stantec, 2019c) and based upon depth, presence of fill materials, moisture content, and field screening readings. Soil samples selected for analysis were placed directly into laboratory-supplied containers, preserved as appropriate, and immediately placed in a cooler on ice for shipping to Eurofins TestAmerica in Chicago, Illinois (State of Wisconsin Laboratory Certification No. 999580010) under chain of custody for analysis. The types of analyses performed included analysis for VOCs (EPA Method 8260), PAHs (EPA Method 8270), and/or RCRA metals (EPA Method 6010 and 7471). In addition, a "Trip Blank" sample was submitted to the laboratory during each sampling event for VOC analysis. The complete laboratory analytical reports for soil sample analysis are presented in Appendix B. The analytical data is summarized in Section 5.4 and detailed on Table 1. Quality assurance/quality control (QA/QC) data for soil analytical results is discussed in Section 5.7.1.

The locations of the soil borings were surveyed by Stantec using a sub-meter global positioning satellite survey instrument and used to plot the boring locations as shown on Figure 2.

3.2 GROUNDWATER

On October 23, 2019 Earth Solutions LLC under the supervision of Stantec personnel constructed three temporary groundwater monitoring wells in three borings (TW-1 through TW-3). On March 30, 2020 Probe Technologies, Inc. under the supervision of Stantec personnel constructed four temporary groundwater monitoring wells in four borings (TW-4 through TW-7). One-inch inner diameter schedule 40 polyvinyl chloride (PVC) casing with a 10-foot long factory-slotted PVC screen (0.010-inch) was used for the construction of temporary wells installed onsite. Temporary well locations are illustrated on Figure 2.

A total of seven borings were completed as temporary wells positioned below the ground surface to intersect the water table. Stantec personnel used a peristaltic pump to purge the appropriate well volume from each well and collected groundwater samples. Samples to be analyzed for dissolved RCRA metals were field-filtered through an inline 0.45 micrometer disposable high-capacity filter capsule and pumped directly into a laboratory-supplied sample jar containing a nitric acid preservative. Samples to be analyzed for VOCs were poured directly into a laboratory-supplied sample jar containing a hydrochloric acid preservative. Samples to be analyzed for PAHs were collected in one-liter amber glass jars without preservative in a manner such that the amount of suspended sediment in the groundwater was minimized. Once filled, sample containers were immediately placed in a cooler on ice and shipped for analysis to Eurofins TestAmerica in Chicago, Illinois (State of Wisconsin Laboratory Certification No. 999580010) under chain of custody for analysis.

Groundwater samples were analyzed for VOCs (SW846 Method 8260B), PAHs (SW846 Method 8270D), and/or dissolved (field-filtered) RCRA metals (SW846 Method 6020A and 7470A). In addition, a “Trip Blank” sample was submitted to the laboratory during each sampling event for VOC analysis. The complete laboratory analytical reports for groundwater sample analysis are presented in Appendix B. The analytical data is summarized in Section 5.5 and detailed on Table 2. QA/QC data for groundwater analytical results is discussed in Section 5.7.2.

On April 16, 2019 and March 30, 2020, the temporary monitoring wells were decommissioned by removal of the casing and screen and backfilled with bentonite per Chapter NR 141 WAC requirements. WDNR well abandonment forms are presented in Appendix A.

4.0 APPLICABLE CLEAN-UP CRITERIA

Procedures for establishing soil clean-up standards applicable to sites in Wisconsin with documented soil contamination are specified in Chapter NR 720 WAC. The most current revisions to Chapter NR 720 WAC were completed during October 2013 (WDNR, 2013) and will be used in the evaluation of the analytical results for soil samples presented on Table 1.

Soil clean-up standards depend in part on current and anticipated future land use. As discussed in Section 2, the Property is zoned "General Business District" and future anticipated use will likely be similarly zoned. Therefore, the non-industrial classification will be used to assess clean-up criteria for the Site.

RCLs are numerical soil clean-up standards that are calculated for a minimum of two exposure pathways – direct contact by humans with exposed soil and leaching of contaminants from soil into groundwater. A variety of methods may be used to calculate RCLs, subject to WDNR approval. The approach used for the Site was to use an RCL spreadsheet developed by the WDNR's Remediation and Redevelopment Program staff for use by consultants. The spreadsheet (WDNR, 2018) is updated periodically by WDNR staff and utilizes toxicity information maintained on the EPA Regional Screening Level website: https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables. As toxicity data is updated periodically for different types of contaminants, the WDNR RCL spreadsheet is similarly updated. The version used to determine RCLs for this Site is the December 2018 update (WDNR, 2018) as summarized on Table 1.

As part of the revisions to ch. NR 720 WAC, WDNR adopted use of BTVs for select metals in soil whose occurrence may be attributable in whole or in part to natural occurrence in Wisconsin soil. BTVs are "non-outlier trace element maximum levels in Wisconsin surface soils" as determined through a state-wide study (United States Geological Survey [USGS], 2011). BTVs were established for 16 metals including aluminum, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, strontium, vanadium, and zinc. Probably the most significant BTV is the value of 8.3 milligrams per kilogram (mg/kg) established for arsenic. This value is significant because the RCLs calculated for the direct contact and groundwater pathways are significantly lower than this value, which in the past resulted in sites with relatively low levels of naturally occurring arsenic significantly exceeding the clean-up levels. If measured levels of arsenic or the other metals for which BTVs have been established are below the BTVs, these levels can be attributed to natural occurrence without the need to perform a WDNR-approved site-specific study to determine background levels where no BTV have been established for. Four of the seven other metals detected in soil at the Site have established BTVs. The established BTVs for the other detected metals at the Site are 364 mg/kg for barium, 1.07 mg/kg for cadmium, 43.5 mg/kg for total chromium, and 51.6 mg/kg for total lead.

Public health-related groundwater quality standards are set forth by Chapter NR 140 WAC. Standards are listed for substances of public health concern (defined as substances having carcinogenic, mutagenic, or teratogenic properties or interactive effects) and substances of public welfare concern (defined as having a negative aesthetic value but with little threat to human health). Two levels of standards are listed; the preventive action limit (PAL) and the enforcement standard (ES). The ES represents a concentration above which action generally must be taken to improve the quality of groundwater. The PAL represents a lower concentration (usually 10 to 20 percent of the ES) above which groundwater quality should be monitored. PAL and ES values relevant to constituents evaluated in groundwater samples collected at the Site are summarized in Table 2 and represent the values included in the NR140 published in January 2020 (https://docs.legis.wisconsin.gov/code/admin_code/nr/100/140).

WDNR Publication: RR-800; *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin* (January 2018) is currently utilized to address vapor intrusion. Screening levels and criteria for further evaluation (sub-slab and/or indoor air samples) are based on the type of contaminant, media contaminated (soil and/or groundwater) and horizontal and vertical distance to structures. Indoor air samples and sub-slab vapor samples were not included as part of the Phase II ESA scope of work, as it was unknown prior to the Phase II ESA whether VOC impacts were present close enough to nearby buildings, and if present, at which specific locations.

Given the concentrations above the NR 720 non-industrial direct contact RCLs and protection of groundwater RCLs at the Property; the RR Program's cPAH calculator may be used. This modified spreadsheet is

considered a risk assessment to replace individual soil RCLs for PAHs. Per Wis. Admin. Code § NR 722.11 (1), a responsible party may request to use this modified spreadsheet to determine alternate environmental standards when attaining compliance with the RCLs is not practicable. Use of the modified spreadsheet is requested to be approved given the limited impacts observed at the Property. The spreadsheet evaluates cPAH compounds on a cumulative basis only, rather than on an individual compound basis. Four calculations are considered during the cPAH spreadsheet process: cPAH risk, exceedance count, hazardous index, and the cumulative risk.

For samples with detections below standards, the hazard quotient, cancer risk, and risk result are calculated for each sample using the WDNR's RCL calculation spreadsheet. For an individual sample to "pass," all three of the following criteria must be met: (a) the number of constituents for which there are individual exceedances must equal "0;" (b) the hazard quotient must be ≤ 1.0; and (c) the cumulative cancer risk must be ≤ 1.0E-06. Criteria for which the individual samples fail, the spreadsheet notes that, "This site sampling location will need either further clean-up to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway." The entire Property is covered in asphalt and existing asphalt can serve as cap.

5.0 RESULTS OF INVESTIGATION

5.1 REGIONAL PHYSIOLOGY, GEOLOGY, AND HYDROGEOLOGY

The Property is in an area that was previously covered by the Laurentide Ice Sheet during the Wisconsin Glaciation (Wisconsin Geological and Natural History Survey [WGNHS], 2011) resulting in topography that is moderately hilly. In general, the area is covered by greater than 50 feet of unconsolidated glacial till. The depth to bedrock is estimated to be between 50 to 100 ft bgs underlain by bedrock consisting of dolomitic limestone (Mudrey et al., 1982).

The shallow water table is often a subdued expression of surface topography. Shallow groundwater generally flows from areas of groundwater recharge, such as hills and broad uplands, to areas of groundwater discharge, such as wetlands, rivers, and lakes. Based on the local surface topography, local shallow groundwater is expected to flow northeast towards the Rubicon River.

5.2 SITE GEOLOGY/HYDROGEOLOGY

Non-anthropogenic fill material encountered at the Property consisting of gravel and sand was observed to extend from the ground surface to a maximum depth of 10 ft. bgs in boring TW-3. Native soil was present underlying these areas consisting of gravel, sand, clayey sand, and clay. Groundwater was encountered between approximately 6 and 11 ft bgs in temporary wells installed on the Property. Although not measured during this assessment, groundwater likely flows in a northeast direction towards the Rubicon River. Bedrock was not encountered during site investigation activities. The characteristics of the soil at each boring location are detailed on the boring logs presented in Appendix A.

5.3 SOIL QUALITY AND ANALYTICAL RESULTS

Field PID data for soil is presented on the boring logs detailed in Appendix A and evaluated in Section 5.4.1 below. Laboratory analytical results for soil samples are summarized on Table 1 and evaluated based upon each constituent group analyzed in Sections 5.3.2 through 5.3.4. The complete laboratory analytical reports for soil sample analysis are presented in Appendix B.

5.3.1 PID Data

PID readings for unsaturated soil were measured up to 76.5 instrument units (iu; TW-3). In general, soil samples from the sample intervals with the highest PID readings in each boring were submitted for laboratory analysis for VOCs. PID data is included on the boring logs presented in Appendix A.

5.3.2 RCRA Metals

Nine soil samples and one duplicate were analyzed for RCRA metals. Arsenic was detected at concentrations exceeding the ch. NR 720 WAC IDC RCL in SB-2 (2.5-5 ft bgs), SB-6 (0-2.5 ft bgs), and TW-2 (0-2.5 ft bgs). Arsenic was also detected at concentrations exceeding the ch. NR 720 WAC NIDC RCL in all soil samples analyzed for arsenic except for TW-3 (3-5 ft bgs). None of the reported arsenic concentrations exceeded the BTV.

Silver was reported at concentrations exceeding the ch. NR 720 WAC Groundwater Protection RCL in SB-1 (0-2.5 ft bgs), SB-2 (2.5-5 ft bgs), SB-3 (0-1 ft bgs), SB-5 (0-2.5 ft bgs), SB-6 (0-2.5 ft bgs), and TW-1 (2.5-5 ft bgs). Lead was reported at a concentration exceeding the ch. NR 720 WAC Groundwater Protection RCL in TW-2 (0-2.5 ft bgs). Lead was also detected in every soil sample analyzed for lead; however, none of the reported lead concentrations exceeded the BTV. Silver was detected above the ch. NR 720 WAC Groundwater Protection RCL in a majority of the soil sampled for metals, except for TW-3 (3-5 ft bgs). Various other RCRA metals were detected during the investigation; however, none were reported at concentrations exceeding their respective ch. NR 720 WAC IDC RCL, ch. NR 720 WAC NIDC RCL, and/or ch. NR 720 WAC Groundwater Protection RCL. Soil laboratory analysis results are summarized in Table 1.

5.3.3 Polynuclear Aromatic Hydrocarbons

Benzo[a]pyrene was detected at concentrations exceeding the ch. NR 720 WAC IDC RCL in samples SB-3 (0-1 ft bgs) and TW-7 (0-2 ft bgs). Benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-cd]pyrene were detected at concentrations exceeding their respective ch. NR 720 WAC NIDC RCL and/or ch. NR 720 WAC Groundwater Protection RCL in several samples. Chrysene was detected at concentrations exceeding the ch. NR 720 WAC Groundwater Protection RCL in several samples. Various other PAHs were detected during the investigation; however, none were reported at concentrations exceeding their respective ch. NR 720 WAC IDC RCL, ch. NR 720 WAC NIDC RCL, or ch. NR 720 WAC Groundwater Protection RCL. Soil laboratory analysis results are summarized in Table 1 and relevant constituent exceedances are illustrated on Figure 3.

To assess the cumulative impact of the PAHs, particularly the cPAHs, a risk assessment using the WDNR's cPAH calculator was conducted on the soil samples where PAHs were detected. A majority of the soil samples, given the cPAH calculations, were identified to not pose a cumulative PAH risk. According to the analysis, only five soil samples (SB-3 (0-2.5 ft bgs), SB-4 (0-2.5 ft bgs), SB-5 (0-2.5 ft bgs), TW-1 (2.5-5 ft bgs), and TW-7 (0-2.5 ft bgs)) failed the cumulative cPAHs risk assessment. The samples calculated to fail the cPAH calculation were all collected between 0 and 5 ft bgs in the fill material. The cPAH calculation results are summarized in Table 1, illustrated on Figure 4, and included in Appendix C.

5.3.4 Volatile Organic Compounds

1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene were reported at concentrations exceeding their respective ch. NR 720 WAC Groundwater Protection RCLs in the sample TW-3 (0-1 ft bgs). PCE and TCE were reported at concentrations exceeding their respective ch. NR 720 WAC Groundwater Protection RCLs in samples SB-6 (0-2.5 ft bgs), TW-4 (2.5-5 ft bgs), TW-5 (0-2.5 ft bgs), and TW-5(2.5-5 ft bgs). PCE was also reported to exceed the ch. NR 720 WAC Groundwater Protection RCLs in the sample TW-2 (5-7.5 ft bgs). Various other VOCs were detected during the investigation; however, none were reported at concentrations exceeding their respective ch. NR 720 WAC IDC RCL, ch. NR 720 WAC NIDC RCL, or ch. NR 720 WAC Groundwater Protection RCL. Soil laboratory analysis results are summarized in Table 1 and relevant constituent exceedances are illustrated on Figure 3.

5.4 GROUNDWATER QUALITY AND ANALYTICAL RESULTS

A total of seven temporary wells were installed during site investigation activities and various VOCs, PAHs, and/or dissolved RCRA metals were detected in the wells. See Section 5.4.1 through 5.4.3 below for a brief overview of the analytical results. The groundwater laboratory analytical results are summarized in Table 2 and relevant constituent ch. NR 140 WAC PAL and/or ES exceedances are illustrated on Figure 5. The complete analytical laboratory report is included in Appendix B.

5.4.1 RCRA Metals

Various dissolved metals were detected in TW-1, TW-2, and TW-3; however, the reported dissolved metal concentrations did not exceed their respective ch. NR 140 WAC PAL and/or ES. Dissolved metals were not analyzed in the groundwater samples collected during the additional investigation activities conducted in March 2020 (TW-4 through TW-7).

5.4.2 Polynuclear Aromatic Hydrocarbons

Benzo[a]pyrene, and benzo[b]fluoranthene, and chrysene were reported at concentrations exceeding the ch. NR 140 WAC ES in wells TW-1 and TW-7. Given the relatively low solubility of the detected constituents, it is possible that the detected concentrations are biased high due to the presence of colloidal material in the samples. Various other constituents were detected in TW-1 and TW-7; however, none of the reported concentrations exceeded their respective ch. NR 140 WAC PAL and/or ES. No other PAHs were detected in the groundwater during the site investigation activities.

5.4.3 Volatile Organic Compounds

PCE was detected at a concentration exceeding the ch. NR 140 WAC ES in TW-5, located on the eastern portion of the 24 South Main Street parcel. PCE was also detected at concentrations exceeding the ch. NR 140 WAC PAL in TW-2, TW-4 and TW-6. TCE was detected at a concentration exceeding the ch. NR 140 WAC PAL in TW-5. Various other VOCs were detected in the temporary wells; however, none of the reported concentrations exceeded their respective ch. NR 140 WAC PAL and/or ES.

5.5 VAPOR INTRUSION

Indoor air samples and/or sub-slab vapor samples were not included as part of the Phase II ESA scope of work, as it was unknown prior to the Phase II ESA whether VOC impacts were present close enough to nearby buildings, and if present, at which specific locations. Given the VOC concentrations detected in the soil and groundwater samples, particularly near the Pour House bar (adjacent to the northern Property boundary), vapor intrusion is a risk.

5.6 QUALITY ASSURANCE / QUALITY CONTROL

Analysis was conducted at the TestAmerica Laboratories, Inc. in Chicago, Illinois (State of Wisconsin Laboratory Certification No. 999580010).

5.6.1 Soil

The concentrations of several constituents on Table 1 were qualified with a “J” flag indicating the concentrations are estimated values that lie between the limit of detection and the reporting limit. This is relevant in situations where the reported concentrations are relatively similar in value to applicable soil RCLs and could impact whether the RCLs are exceeded. This does not appear to be the situation for any of the “J” flagged values shown on Table 1. A “B” flag indicates that the compounds were found in the associated blank, as well as in the sample. It indicates possible/probable blank contamination and indicates that some sample results may be influenced high.

Several soil sample results, are qualified with a “^” flag indicating that the instrument related quality control is outside acceptance limits. This does not appear to significantly impact the flagged values shown on Table 1.

Two duplicate samples were collected, DUP-1 and DUP-2 from TW-3 and TW-1 respectively. DUP-1 was sampled and analyzed for VOCs while DUP-2 was sampled and analyzed for PAHs and RCRA metals. Both duplicate sample results were consistent with their respective parent sample results.

5.6.2 Groundwater

Several concentrations reported on Table 2 are qualified with a “J” flag indicating the concentrations are estimated values that lie between the limit of detection and the reporting limit. This is relevant in situations where the reported concentrations are relative similar in value to applicable Chapter NR 140 WAC groundwater standards and could impact whether the standards are exceeded. This does not appear to be true for any of the “J” flagged values. A “B” flag indicates that the compounds were found in the associated blank, as well as in the sample. It indicates possible/probable blank contamination and indicates that some sample results may be influenced high.

One sample, TW-5, was qualified with a “DL” flag indicating that the compound (PCE) was detected at the detection limit. This particular groundwater concentration is greater than the ch. NR 140 WAC ES by two significant digits.

Two duplicate samples were collected, DUP-3 and DUP from TW-3 and TW-4 respectively. DUP-3 was analyzed for dissolved metals, PAHs, and VOCs while DUP was analyzed for VOCs. Both duplicate sample results were consistent with their respective parent sample results.

5.7 MIGRATION PATHWAYS AND POTENTIAL RECEPTORS

Direct Contact: Arsenic was detected at concentrations exceeding the ch. NR 720 WAC IDC RCL in SB-2 (2.5-5 ft bgs), SB-6 (0-2.5 ft bgs), and TW-2 (0-2.5 ft bgs). Arsenic was also detected at concentrations

exceeding the ch. NR 720 WAC NIDC RCL in all soil samples analyzed for arsenic except for TW-3 (3-5 ft bgs). However, none of the reported arsenic concentrations exceeded the BTV. No other RCRA metals were reported above their respective direct contact RCLs.

PAHs were detected in many of the soil samples at concentrations that exceed the Chapter NR 720 WAC NI DC RCLs, although only five soil samples (SB-3 (0-2.5 ft bgs), SB-4 (0-2.5 ft bgs), SB-5 (0-2.5 ft bgs), TW-1 (2.5-5 ft bgs), and TW-7 (0-2.5 ft bgs)) failed the cumulative cPAHs risk assessment for direct contact. The samples calculated to fail the cPAH calculation were all collected between 0 and 5 ft bgs in the fill material. The areas where the calculation failed are capped with asphalt and do not appear to currently pose a risk with respect to direct contact.

Soil Leaching to Groundwater: PAHs, VOCs and/or dissolved RCRA metals were detected in a majority of the soil samples at concentrations that that could impact groundwater quality. Laboratory results indicate that various PAH and VOC constituents have been detected at concentrations exceeding their respective ch. NR 140 WAC PAL and/or ES. Dissolved RCRA metals were not detected at concentrations exceeding their respective ch. NR 140 WAC PAL and/or ES. Asphalt covers the entirety of the contaminated soil on the Property so it is unlikely that stormwater infiltration would cause the contaminants to mobilize into groundwater.

Groundwater Ingestion: The Property and the surrounding area is served by City of Hartford community water system, not the groundwater located on Property.

Vapor intrusion: No vapor sampling was performed as part of this assessment. Given the VOC concentrations detected in the groundwater, particularly near the Pour House bar (adjacent to the northern Property boundary), vapor intrusion is a risk.

Migration Pathways: Based on available records for the area provided by the WDNR, a stormwater utility is present along the northern Property boundary and extends toward South Main Street, where other underground utilities are present. The backfill material associated with these and potentially other utilities may have created a preferential path for contaminant movement.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the Phase II ESA, the following Conclusions and Recommendations are made.

6.1 CONCLUSIONS

Soil

Non-anthropogenic fill material encountered at the Property consisting of gravel and sand was observed to extend from the ground surface to a maximum depth of 10 ft. bgs. Native soil was present underlying these areas consisting of gravel, sand, clayey sand, and clay.

Arsenic was detected at concentrations exceeding ch. NR 720 WAC IDC RCL and/or ch. NR 720 WAC NIDC RCL, but below the BTV. Lead and silver exceeding the ch. NR 720 WAC groundwater protection RCL are also present onsite, although lead concentrations were all below the BTV.

Various VOCs were detected in the soil samples during the investigation; however, none were reported at concentrations exceeding their respective ch. NR 720 WAC IDC RCL or ch. NR 720 WAC NIDC RCL. 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, PCE, and TCE were reported at concentrations exceeding their respective ch. NR 720 WAC groundwater protection RCL.

Various PAHs were also reported at concentrations exceeding their respective ch. NR 720 WAC IDC RCL, ch. NR 720 WAC NIDC RCL and/or groundwater protection RCL. To assess the cumulative impact of the PAHs, particularly the cPAHs, a risk assessment using the WDNR's cPAH calculator was conducted on the soil samples where PAHs were detected. According to the analysis, only five soil samples failed the cumulative cPAHs risk assessment. The detections appear to be related to fill material located at the Property.

The areas where detected concentrations of analyzed constituents are above RCLs are currently capped with asphalt and do not appear to currently pose a risk with respect to direct contact or infiltration of groundwater.

Groundwater

Groundwater was encountered between approximately 6 and 11 ft bgs in temporary wells installed on the Property. Detected groundwater concentrations of benzo(a)pyrene, benzo(b)fluoranthene, and chrysene exceeded the ch. NR 140 WAC ES in samples collected from temporary wells TW-1 and TW-7. Given the relatively low solubility of the detected constituents, it is possible that the detected concentrations are biased high due to the presence of colloidal material in the samples. Additionally, groundwater concentrations of PCE were detected at levels exceeding the ch. NR 140 WAC ES in samples from TW-5, located on the eastern portion of the 24 South Main Street parcel. Samples from temporary wells TW-2, TW-4, and TW-5 had groundwater concentrations of PCE above the ch. NR 140 WAC PAL. The extent of release to groundwater is undefined. Although groundwater flow direction was not evaluated utilizing groundwater elevation measurements during the Phase II ESA, groundwater flow is likely to the north towards the Rubicon River.

Vapor

No vapor sampling was performed as part of this assessment. However, given the concentrations of VOCs detected in site soil and groundwater samples and the proximity of structures, vapor intrusion is a risk.

Migration Pathways

Based on available records for the area provided by the WDNR, a stormwater utility is present along the northern Property boundary and extends toward South Main Street, where other underground utilities are present. The backfill material associated with the utilities may have created a preferential path for contaminant movement.

6.2 RECOMMENDATIONS

Based on the results of the Phase II ESA, select analyzed constituents were detected at concentrations above applicable soil and groundwater standards. The detections appear to be related to historic use of the Property as a drycleaner and the presence of imported fill. Additional investigation per ch. NR 716 WAC requirements is recommended to further evaluate the source(s) and extent of release(s)/placement of fill materials and assess appropriate future actions. It is also recommended that a copy of this report be submitted to the WDNR.

7.0 DISCLAIMER AND LIMITATIONS

The Phase II ESA was performed in accordance with generally accepted practices of the profession for performing similar studies at the same time and in the same geographical area. Stantec observed that degree of care and skill generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Stantec observations, findings, and opinions must not be considered as scientific certainties but only an opinion based on our professional judgment concerning the significance of the data gathered during the investigation. Specifically, Stantec does not and cannot represent that the Site contains no hazardous or toxic materials or other latent condition beyond that observed by Stantec.

8.0 REFERENCES

Massie-Frech, K.M and Peters, R.M, “Preliminary bedrock geologic map of Washington County, Wisconsin”, 2004a.

Massie-Frech, K.M and Peters, R.M, “Preliminary depth to bedrock map of Washington County, Wisconsin”, 2004b.

Mudrey, M.G., Brown, B.A. & Greenburg, J.K. 1982. Bedrock Geologic Map of Wisconsin [map]. 1:1,000,000. Madison, Wisconsin: University of Wisconsin-Extension, Geological and Natural History Survey.

Stantec Consulting Services Inc., (Stantec, 2015), “Quality Assurance Project Plan (Revision 0), Implementation of U.S. EPA Assessment Grants for Petroleum and Hazardous Substance Brownfields, Washington County, Wisconsin, U.S. EPA Cooperative Agreement No. BF-00E02304-0” (dated November 11, 2015).

Stantec Consulting Services Inc., (Stantec, 2015; Stantec 2018 and Stantec, 2019a), Quality Assurance Project Plan Update, (dated October 9, 2019).

Stantec Consulting Services Inc., (Stantec, 2019b), Phase I Environmental Site Assessment, South Main Street Property: 24, 28, and 32 South Main Street, Hartford, Wisconsin, (dated June 11, 2019).

Stantec Consulting Services Inc., (Stantec, 2019c), “Site-Specific Sampling an Analysis Plan, Phase II Environmental Site Assessment, South Main Street Property: 24, 28, and 32 South Main Street, Hartford, Wisconsin” (dated October 15, 2019).

Stantec Consulting Services, Inc., (Stantec, 2020), “Consideration of EPA Budget Reallocation Request – City of Hartford (City) 24, 28 and 32 South Main Street Property Additional Phase II Environmental Site Assessments and Reporting” (dated January 15, 2020).

U.S. Geological Survey (USGS, 2011), “Distribution and Variation of Arsenic in Wisconsin Surface Soils, With Data on Other Trace Elements,” Scientific Investigations Report 2011-5202, 2011.

Washington County Ascent Land Records Suite, public real estate property and tax assessment information for the Property performed by Rex Key (Stantec), April 23, 2020.

Washington County Planning and Parks Department, (Washington County, 2020), “Consideration of EPA Budget Reallocation Request – City of Hartford (City) 24, 28 and 32 South Main Street Property Additional Phase II Environmental Site Assessments and Reporting” (dated January 15, 2020).

Wisconsin Department of Natural Resources, “Jerry’s Dry Cleaning – Former”, Bureau of Remediation and Redevelopment Tracking System (BRRTs) number 02-67-220908, BRRTS website, reviewed by Erin Gross (Stantec), February 25, 2019.

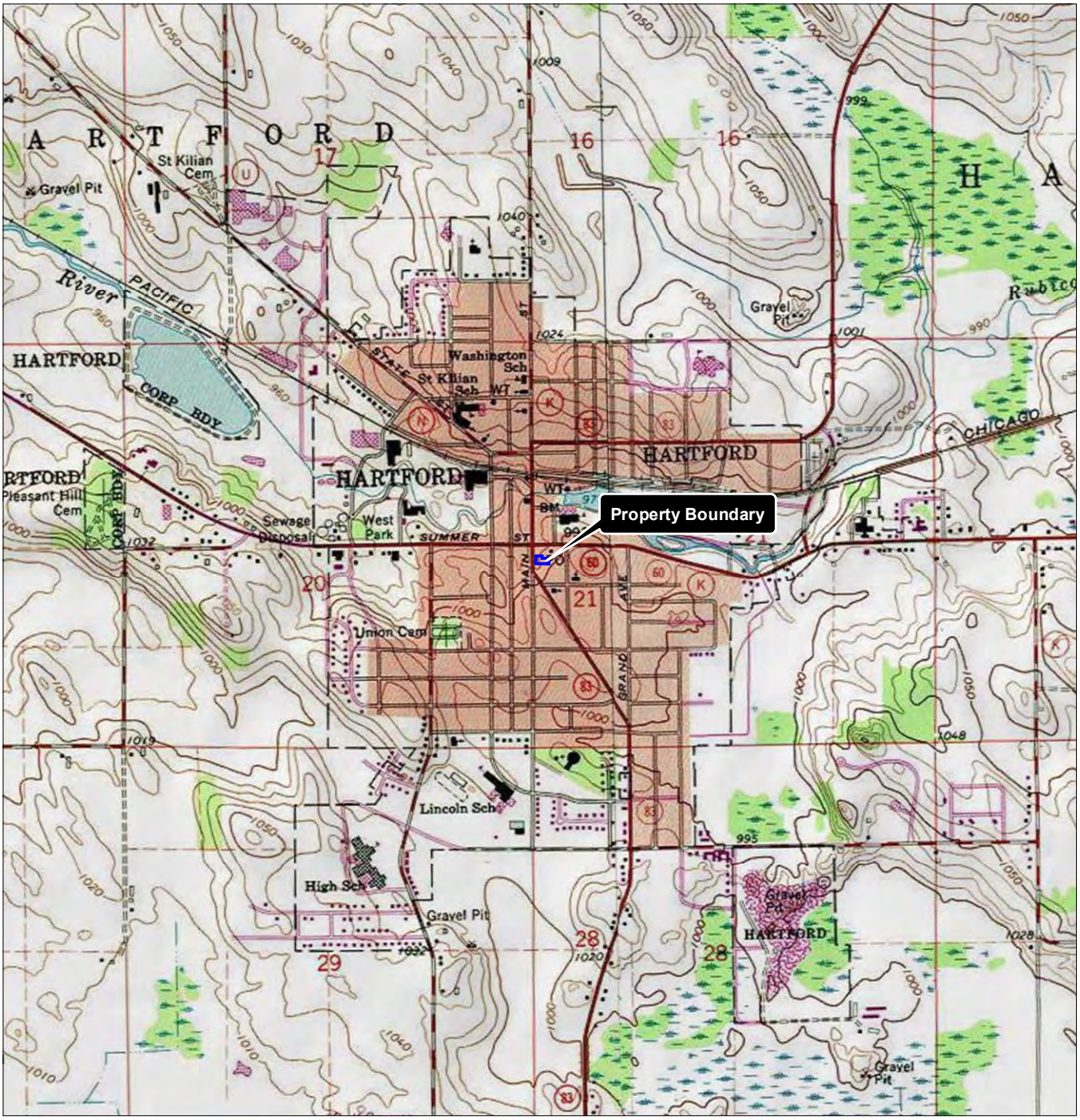
Wisconsin Department of Natural Resources (WDNR, 2018), “RR Program’s RCL Spreadsheet Update”, DNR-RR-052h, December 2018.

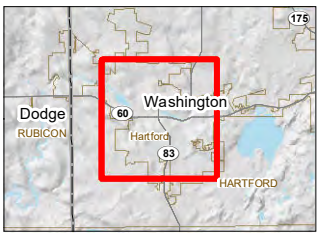
Wisconsin Department of Natural Resources (WDNR, 2013), “Soil Cleanup Standards,” Chapter NR 720 Wisconsin Administrative Code, November 2013.

Wisconsin Geological and Natural History Survey (WGNHS, 2011), “Lexicon of Pleistocene Stratigraphic Units of Wisconsin,” Technical Report 1, 2011.

FIGURES

V:\1937\Active\193706313\03_data_gis_cad\gis\mxds\S_Main St\fig1_Topo_Map_193706313.mxd Revised: 2019-05-24 By: aswaim





Legend

Property Boundary

Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, WDNR, WisDOT
3. Background: USGS 7.5' Topographic Quadrangles

Figure No.
1

Title
Property Location and Local Topography

Client/Project
24, 28, and 32 S. Main Street
Hartford, Wisconsin
Phase II ESA

Project Location
T10N, R18E, S21,
C. of Hartford,
Washington Co., WI

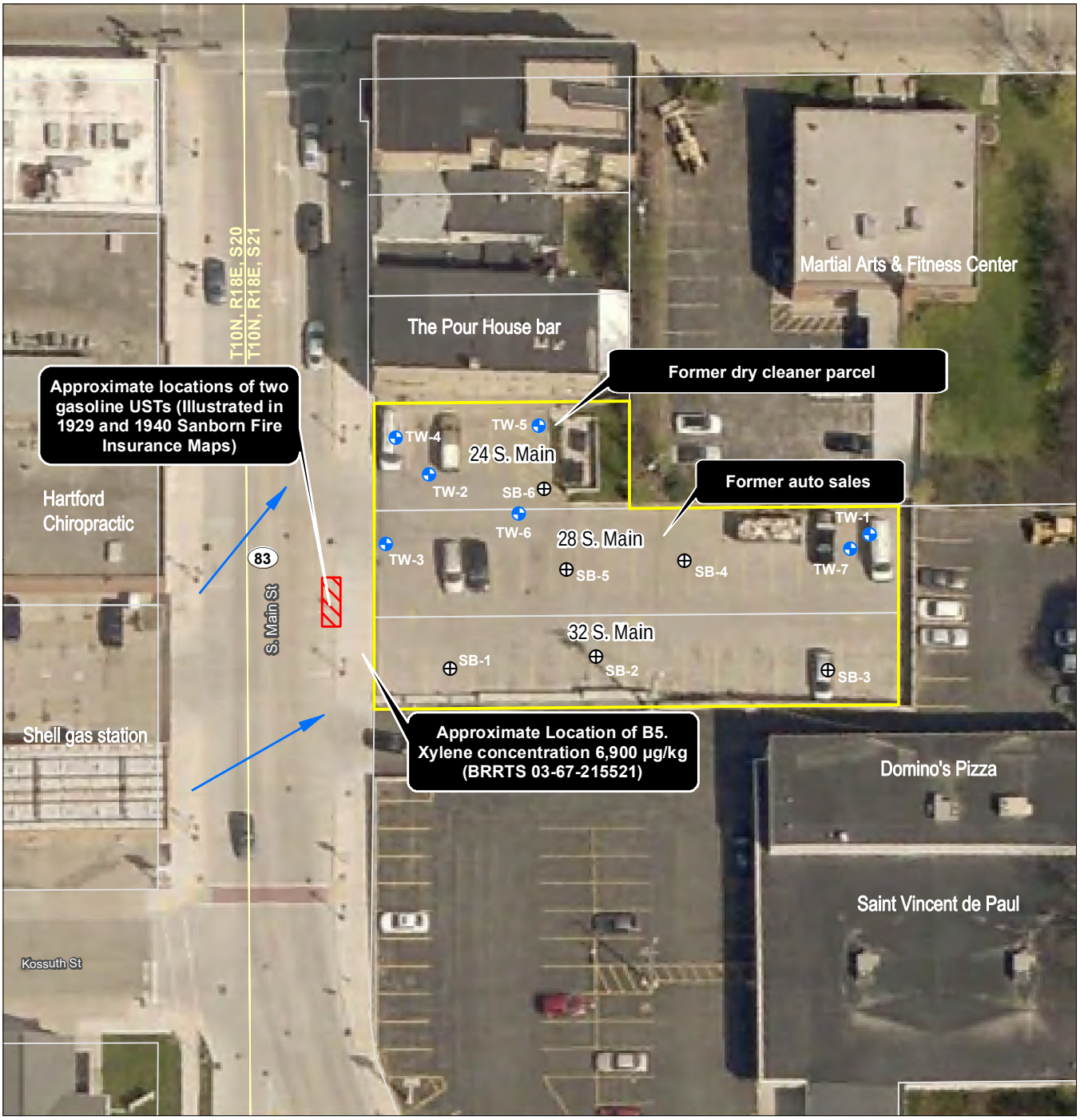
193706313
Prepared by AJS on 2019-05-24
Technical Review by BT on 2019-05-24
Independent Review by EG on 2020-05-11

0 1,000 2,000 Feet
1:24,000 (at original document size of 8.5x11)

N

Stantec

V:\1937\Active\193706313\03 data\gis cad\gis\mxds\S Main St\fig2 Property Vicinity Map 193706313.mxd Revised: 2019-05-24 By: aswain



Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, Sanborn, SCO, WDNR, WisDOT
3. Orthophotography: 2017 Washington Co

Legend
- Property Boundary
- Parcel Boundary
- Approximate UST Location
- Approximate Groundwater Flow Direction (BRRTs 03-67-215521)
- Borehole Location
- Temporary Well Location

Figure No.
2

Title
Sample Location Map

Client/Project
24, 28, and 32 S. Main Street
Hartford, Wisconsin
Phase II ESA

Project Location
T10N, R18E, S21,
C. of Hartford,
Washington Co., WI

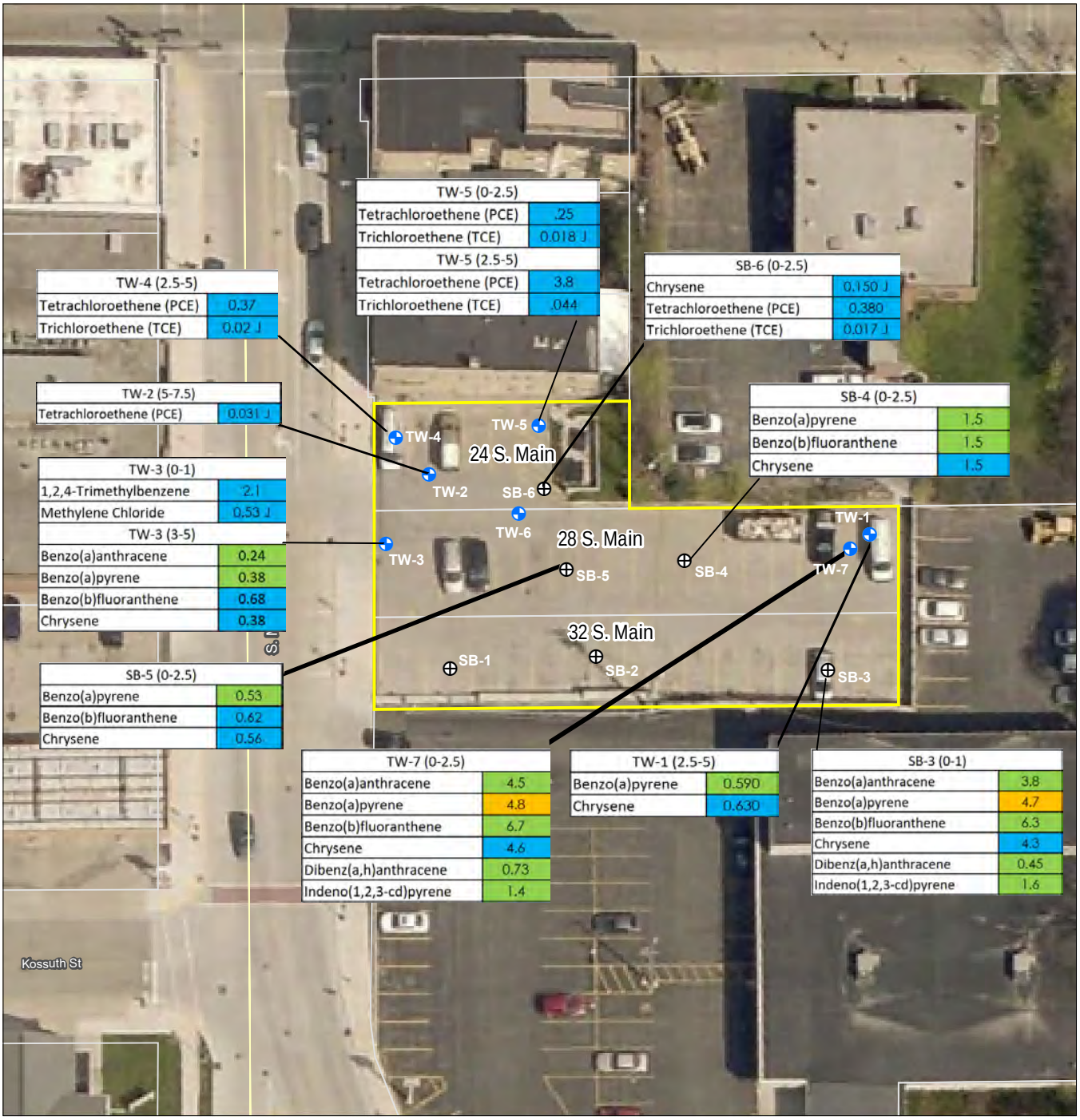
193706313
Prepared by AJS on 2019-05-24
Technical Review by BT on 2019-05-24
Independent Review by EG on 2020-05-11

0 25 50 Feet
1:600 (at original document size of 8.5x11)

N

Stantec

V:\1937\Active\193706313\03 data\gis cad\gis\mxds\S Main St\fig2 Property Vicinity Map 193706313.mxd Revised: 2019-05-24 By: aswain



Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, Sanborn, SCO, WDNR, WisDOT
3. Orthophotography: 2017 Washington Co

Legend
- Property Boundary
- Parcel Boundary
- DC-I Exceedance
- DC-NI Exceedance
- GW RCL Exceedance
- Borehole Location
- Temporary Well Location

RCL = Residual Contaminant Level
GW RCL = WDNR RCL for Protection of Groundwater
DC-NI = WDNR Non-Industrial RCL for Direct Contact Risk
DC-I = WDNR Industrial RCL for Direct Contact Risk
All Results Expressed in Milligrams per Kilogram
(0-2.5) = feet below ground surface

Figure No.
3

Title
VOC and PAH Concentrations in Soil Exceeding NR 720 RCLs

Client/Project
24, 28, and 32 S. Main Street
Hartford, Wisconsin
Phase II ESA

Project Location
T10N, R18E, S21,
C. of Hartford,
Washington Co., WI

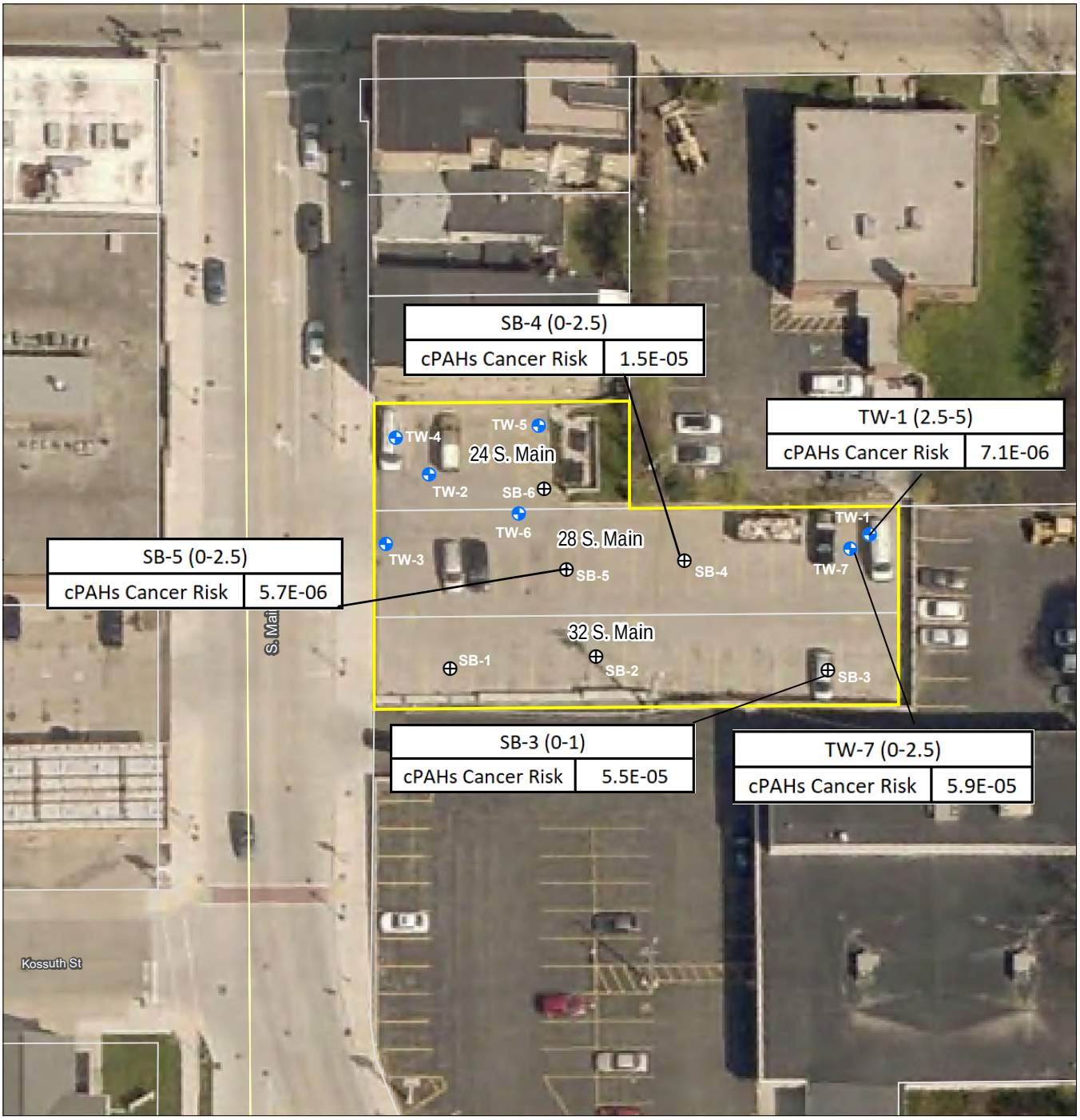
193706313
Prepared by AJS on 2019-05-24
Technical Review by BT on 2019-05-24
Independent Review by EG on 2020-05-11

0 25 50 Feet
1:600 (at original document size of 8.5x11)

N

Stantec

V:\1937\Active\193706313\03_data\gis_cad\gis\mxds\S_Main_St\Fig2_Property_Vicinity_Map_193706313.mxd Revised: 2019-05-24 By: aswain



Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, Sanborn, SCO, WDNR, WisDOT
3. Orthophotography: 2017 Washington Co

Legend
- Property Boundary
- Parcel Boundary
- Borehole Location
- Temporary Well Location

cPAH = Carcinogenic polycyclic aromatic hydrocarbons
(0-2.5) = feet below ground surface

Figure No.
4

Title
Direct Contact Risk cPAH Values

Client/Project
24, 28, and 32 S. Main Street
Hartford, Wisconsin
Phase II ESA

Project Location
T10N, R18E, S21,
C. of Hartford,
Washington Co., WI

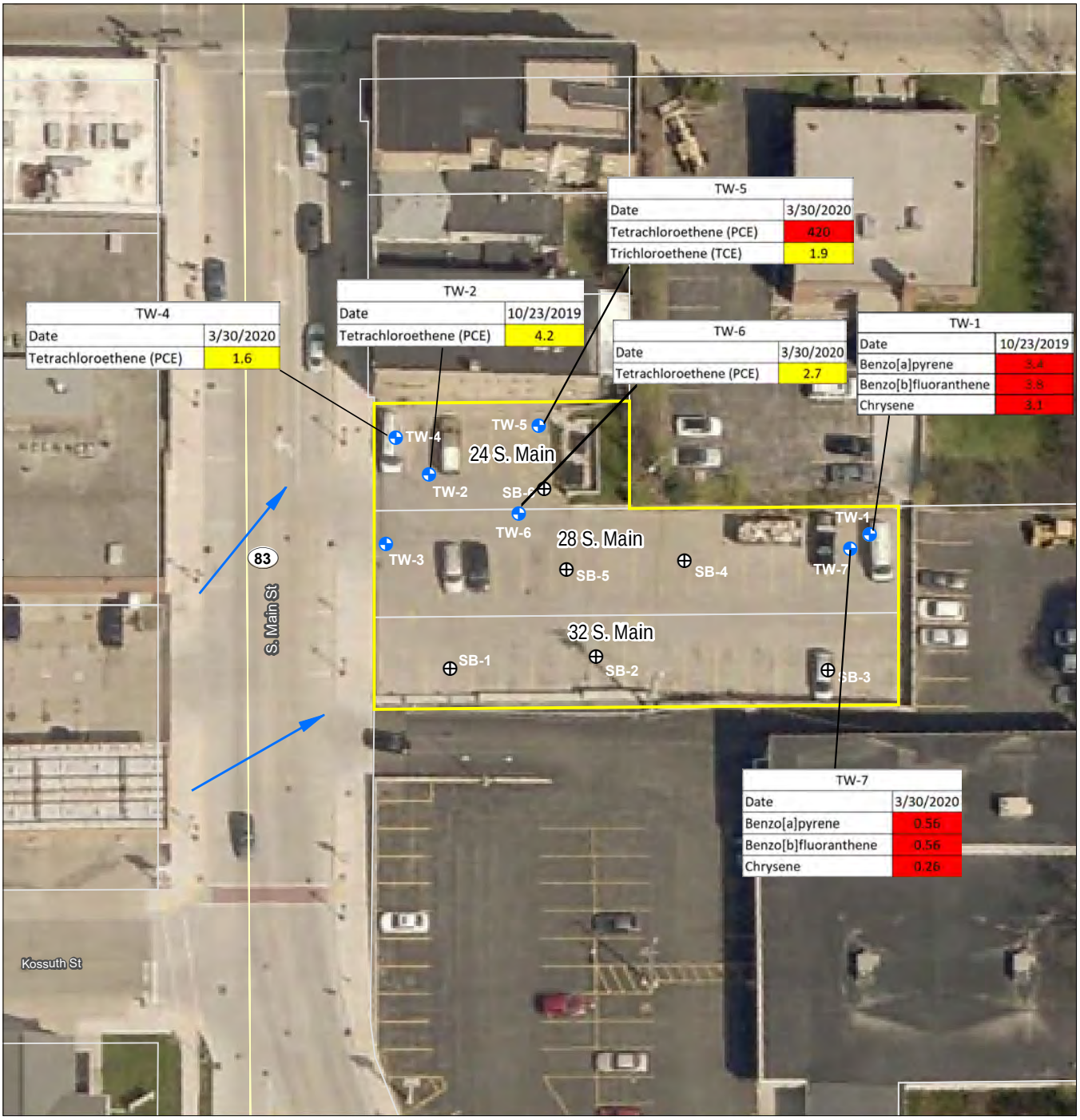
193706313
Prepared by AJS on 2019-05-24
Technical Review by BT on 2019-05-24
Independent Review by EG on 2019-05-11

0 25 50 Feet
1:600 (at original document size of 8.5x11)

N

Stantec

V:\1937\Active\193706313\03 data\gis cad\gis\mxds\S Main St\fig2 Property Vicinity Map 193706313.mxd Revised: 2019-05-24 By: aswain



Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, Sanborn, SCO, WDNR, WisDOT
3. Orthophotography: 2017 Washington Co

Legend

- Property Boundary
- Parcel Boundary
- Approximate Groundwater Flow Direction (BRRTs 03-67-215521)
- Exceeds NR 140 Wis. Adm code Prevention Action Limit
- Exceeds NR 140 Wis. Adm code Enforcement Standard
- ⊕ Borehole Location
- Temporary Well Location

Date = Date sampled

Concentrations reported in micrograms per liter

Figure No.
5

Title
VOC and PAH Concentrations in Groundwater Exceeding NR140 ESs

Client/Project
24, 28, and 32 S. Main Street
Hartford, Wisconsin
Phase II ESA

Project Location
T10N, R18E, S21,
C. of Hartford,
Washington Co., WI

193706313
Prepared by AJS on 2019-05-24
Technical Review by BT on 2019-05-24
Independent Review by EG on 2020-05-11

0 25 50 Feet
1:600 (at original document size of 8.5x11)

N

Stantec

TABLES

Table 1 - Soil Summary Laboratory Detection Results
24, 28, and 32 South Main Street Property: Hartford, WI

Sample Location					SB-1	SB-2		SB-3		SB-4	SB-5	SB-6	TW-1		TW-2		TW-3		DUP-1 / TW-3	DUP-2 / TW-1	Trip Blank	TW-4		TW-5		TW-6		TW-7		Trip Blank
Sample Date					10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	3/30/2020	3/30/2020	3/30/2020	3/30/2020	3/30/2020	3/30/2020	3/30/2020	3/30/2020	3/30/2020
Sample ID					SB1 0-2.5	SB-2 0-2.5	SB-2 2.5-5	SB-3 0-1	SB-3 5-7.5	SB-4 0-2.5	SB-5 0-2.5	SB-6 0-2.5	TW1 2.5-5	TW1 5 - 7.5	TW2 0-2.5	TW2 5-7.5	TW3 0-1	TW3 3-5	DUP-1	DUP-2	Trip Blank	TW4 0-2.5	TW4 2.5-5	TW5 0-2.5	TW5 2.5-5	TW6 0-2.5	TW6 2.5-5	TW7 0-2.5	TW7 5-7.5	Trip Blank
Sample Depth					0 - 2.5 ft	0 - 2.5 ft	2.5 - 5 ft	0 - 1 ft	5 - 7.5 ft	0 - 2.5 ft	0 - 2.5 ft	0 - 2.5 ft	2.5 - 5	5 - 7.5	0 - 2.5 ft	5 - 7.5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	2.5 - 5	(MeOH)	0-2.5	2.5-5	0-2.5	2.5-5	0-2.5	2.5-5	0-2.5	5-7.5	(MeOH)
Sample Type and USCS Classification		Wisconsin DC- NI RCL	Wisconsin DC- I RCL	Wisconsin GW RCL	FILL/GP	Fill/GP & CL	GP	Fill (non-anthropogenic) / SP	CL	FILL (ground asphalt) /SP	FILL (ground asphalt) /SP & GP	FILL (ground asphalt) /SP & GP	Fill (non-anthropogenic) / GP	FILL/GP	FILL/GP & CL	GP	FILL/GP	FILL(ground asphalt) / GP	FILL/GP	FILL/GP	N/A	FILL/SW & CH	SC	FILL/SW,SC	FILL/SC	FILL/SW	SC & GW	FILL/SW	SW	N/A
RCRA Metals (EPA Method 6010B & 7471A)																													
Arsenic	mg/kg	0.677 (8.3)	3.0 (8.3)	0.584 (8.3)	2.2	--	6.5	1.8	--	1.1	1.5	7.5	1.7	--	3.0	--	--	<0.35	--	1.8	--	--	--	--	--	--	--	--	--	--
Barium	mg/kg	15,300 (364)	100,000 (364)	164.8 (364)	26 B	--	47 B	9.9 B	--	8.8 B	15 B	78 B	15 B	--	37	--	--	8.4 B	--	12 B	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	71.1 (1.07)	985 (1.07)	0.752 (1.07)	0.18 J,B	--	0.25 B	0.078 J,B	--	0.060 J,B	0.088 J,B	0.30 B	0.12 J,B	--	0.18	--	--	<0.037	--	0.099 J,B	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	100,000, 0.301 Cr VI (43.5)	100,000, 6.36 Cr VI (43.5)	360,000 (if no Cr VI)	9.7 B	--	11 B	5.8 B	--	4.3 B	6.7 B	16 B	5.5 B	--	9.5	--	--	3.8 B	--	9.8 B	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	400 (51.6)	800 (51.6)	27 (51.6)	3.9	--	8.4	9.0	--	8.9	5.6	26 ^	13	--	28	--	--	5.2	--	5.4	--	--	--	--	--	--	--	--	--	--
Selenium	mg/kg	391	5,840	0.52	<0.58	--	<0.61	<0.55	--	<0.53	<0.55	<0.59	<0.54	--	<0.67	--	--	<0.60	--	<0.57	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	391	5,840	0.8491	1.5	--	4.6	0.93	--	0.74	1.3	4.6	1.0	--	1.6	--	--	0.50 J^B	--	0.84	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	3.13	3.13	0.208	<0.0056	--	0.017 J	<0.0052	--	<0.0050	<0.0055	0.016 J	0.010 J	--	0.071	--	--	0.0074 J	--	<0.0056	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (EPA Method 8270D)																													
1-Methylnaphthalene	mg/kg	17.6	72.7	n/v	<0.0085	--	<0.0091	<0.087	--	<0.083	<0.043	<0.046	0.028 J	--	<0.0093	--	--	<0.043	--	<0.0086	--	--	--	--	--	--	--	<0.081	<0.0083	--
2-Methylnaphthalene	mg/kg	239	3,010	n/v	<0.0064	--	<0.0068	<0.065	--	<0.063	<0.032	<0.035	0.020 J	--	<0.007	--	--	<0.032	--	<0.0065	--	--	--	--	--	--	--	0.061 J	<0.0063	--
Acenaphthene	mg/kg	3,590	45,200	n/v	<0.0063	--	<0.0067	<0.064	--	<0.061	<0.032	<0.034	<0.0064	--	<0.0069	--	--	<0.032	--	<0.0064	--	--	--	--	--	--	--	0.091 J	<0.0061	--
Acenaphthylene	mg/kg	n/v	n/v	n/v	<0.0046	--	<0.0049	2	--	0.25 J	0.2	<0.025	0.029 J	--	<0.005	--	--	<0.023	--	0.005 J	--	--	--	--	--	--	--	1.4	<0.0045	--
Anthracene	mg/kg	17,900	100,000	196.94	<0.0058	--	<0.0062	1.2	--	0.25 J	0.13 J	<0.032	0.260	--	<0.0064	--	--	0.089 J	--	0.01 J	--	--	--	--	--	--	--	1.2	<0.0057	--
Benzo(a)anthracene	mg/kg	1.14	20.8	n/v	0.021 J	--	<0.005	3.8	--	<0.046	<0.024	0.054 J	0.590	--	<0.0051	--	--	0.24	--	0.058	--	--	--	--	--	--	--	4.5	0.0058 J	--
Benzo(a)pyrene	mg/kg	0.115	2.11	0.470	0.031 J	--	0.011 J	4.7	--	1.5	0.53	0.110 J	0.590	--	0.014 J	--	--	0.38	--	0.06	--	--	--	--	--	--	--	4.8	<0.0066	--
Benzo(b)fluoranthene	mg/kg	1.15	21.1	0.478	0.025 J	--	0.013 J	6.3	--	1.5	0.62	0.120 J	0.680	--	0.013 J	--	--	0.68	--	0.063	--	--	--	--	--	--	--	6.7	<0.0073	--
Benzo(g,h,i)perylene	mg/kg	n/v	n/v	n/v	0.019 J	--	<0.012	1.8	--	0.69	<0.057	0.150 J	0.350	--	<0.012	--	--	0.2	--	0.037	--	--	--	--	--	--	--	1.9	<0.011	--
Benzo(k)fluoranthene	mg/kg	11.5	211	n/v	0.027 J	--	<0.011	2.7	--	1.3	0.29	<0.056	0.240	--	<0.011	--	--	0.68	--	0.029 J	--	--	--	--	--	--	--	2.9	<0.010	--
Chrysene	mg/kg	115	2,110	0.144	0.031 J	--	<0.01	4.3	--	1.5	0.56	0.150 J	0.630	--	0.012 J	--	--	0.38	--	0.063	--	--	--	--	--	--	--	4.6	<0.0093	--
Dibenz(a,h)anthracene	mg/kg	0.115	2.11	n/v	<0.0067	--	<0.0072	0.45	--	<0.066	<0.034	<0.037	0.068	--	<0.0074	--	--	<0.034	--	0.01	--	--	--	--	--	--	--	0.73	<0.0066	--
Fluoranthene	mg/kg	2,390	30,100	88.877	0.038	--	0.015	5.4	--	1.9	0.57	0.140 J	1.4	--	0.016 J	--	--	0.49	--	0.11	--	--	--	--	--	--	--	7.5	0.16 J	--
Fluorene	mg/kg	2,390	30,100	14.829	<0.0049	--	<0.0052	<0.05	--	0.11 J	0.066 J	<0.027	0.067	--	<0.0054	--	--	<0.025	--	<0.005	--	--	--	--	--	--	--	0.42	<0.0048	--
Indeno(1,2,3-cd)pyrene	mg/kg	1.15	21.1	n/v	0.023 J	--	<0.0097	1.6	--	0.43	0.2	<0.049	0.320	--	0.011 J	--	--	0.17	--	0.04	--	--	--	--	--	--	--	1.4	<0.0088	--
Naphthalene	mg/kg	5.52	24.1	0.6582	<0.0054	--	<0.0057	<0.055	--	<0.053	<0.027	<0.029	0.055	--	<0.0059	--	--	<0.027	--	<0.0054	--	--	--	--	--	--	--	0.072 J	<0.0052	--
Phenanthrene	mg/kg	n/v	n/v	n/v	0.014 J	--	<0.0052	1.8	--	0.89	0.2	0.079 J	1.0	--	0.0099 J	--	--	0.27	--	0.076	--	--	--	--	--	--	--	3.9	0.014	--
Pyrene	mg/kg	1,790	22,600	54.546	0.033 J	--	0.014 J	5.5	--	5.6	0.68	0.150 J	1.1	--	0.019 J	--	--	0.49	--	0.096	--	--	--	--	--	--	--	7.3	0.015	--
Cumulative cPAHs Cancer Risk (DC)		5.0E-06	n/v	n/v	3.9E-07	--	1.9E-07	5.5E-05	--	1.5E-05	5.7E-06	1.5E-06	7.1E-06	--	2.1E-07	--	--	4.6E-06	--	7.5E-07	--	--	--	--	--	--	--	5.9E-05	1.3E-07	--
No. of Individual PAH RCL Exceedances DC		0	n/v	n/v	0	--	0	0	--	0	0	0	0	--	0	--	--	0	--	0	--	--	--	--	--	--	--	0	0	--
Cumulative Hazard Index DC		1.0	n/v	n/v	0.0017	--	0.0006	0.264	--	0.0843	0.0298	0.0062	0.0331	--	0.0008	--	--	0.0213	--	0.0034	--	--	--	--	--	--	--	0.2697	0.0004	--
Cumulative Cancer Risk		1.0E-05	n/v	n/v	3.9E-07	--	1.9E-07	5.5E-05	--	1.5E-05	5.7E-06	1.5E-06	7.1E-06	--	2.1E-07	--	--	4.6E-06	--	7.5E-07	--	--	--	--	--	--	--	5.9E-05	1.3E-07	--
Volatile Organic Compounds (EPA Method 8260B)																													
1,2,4-Trimethylbenzene	mg/kg	219	219	1.3787	<0.021	<0.022	--	--	<0.022	<0.018	0.02	<0.024	--	<0.02	--	2.1	--	2.3	--	<0.018	<0.023	<0.026	<0.019	<0.024	<0.024	<0.021	--	--	<0.018
1,2,3-Trichloropropane	mg/kg	0.0051	0.109	0.0519	<0.024	<0.025	--	--	<0.025	<0.021	<0.023	<0.028	--	<0.024	--	<0.023	<0.088	--	<0.085	0.410	<0.027	<0.03	<0.023	<0.028	<0.03	<0.025	--	--	<0.021
1,3,5-Trimethylbenzene	mg/kg	219	219	1.3787	<0.022	<0.023	--	--	<0.023	<0.019	0.021	<0.025	--	<0.022	--	<0.021	1.2	--	1.4	<0.019	<0.025	<0.028	<0.021	<0.025	<0.027	<0.023	--	--	<0.019
Methylene Chloride	mg/kg	61.8	1,150	0.0026	<0.095	<0.098	--	--	<0.099	<0.082	0.092	<0.11	--	<0.093	--	<0.089	0.53 J	--	0.47 J	<0.082	<.110^	<0.120^	<0.089^	<.110^	<0.12	<0.098^	--	--	<0.082^
Naphthalene	mg/kg	5.52	24.1	0.6582	<0.02	<0.02	--	--	<0.02	0.061	0.054 J	<0.022	--	<0.019	--	<0.018	<0.071	--	<0.068	<0.017	<0.022	<0.024	<0.018	<0.022	<0.024	<0.02	--	--	<0.017
n-Butylbenzene	mg/kg	108	108	n/v	<0.023	<0.023	--	--	<0.024	<0.02	0.022	<0.026	--	<0.022	--	<0.021	1.3	--	1.3	<0.019	<0.025^	<0.028^	<0.021^	<0.026^	<0.028^	<0.023^	--	--	<0.019
N-Propylbenzene	mg/kg	264	264	n/v	<0.024	<0.025	--	--	<0.025	<0.021	0.023	<0.028	--	<0.024	--	<0.023	0.12 J	--	0.14 J	<0.021	<0.027	<0.03	<0.023	<0.028	<0.03	<0.025	--	--	<0.021
p-Isopropyltoluene	mg/kg	162	162	n/v	<0.021	<0.022	--	--	<0.022	<0.018	0.02	<0.024	--	<0.021	--	<0.02	0.66	--	0.76	<0.018	<0.023	<0.026	<0.02	<0.024	<0.026	<0.022	--	--	<0.018
sec-Butylbenzene	mg/kg	145	145	n/v	<0.023	<0.024	--	--	<0.024	<0.02	0.023	<0.027	--	<0.023	--	<0.022	0.29	--	0.31	<0.02	<0.026^	<0.029^	<0.022^	<0.027^	<0.028^	<0.024^	--	--	<0.02
Tetrachloroethene (PCE)	mg/kg	33	145	0.0045	<0.022	<0.022	--	--	<0.023	<0.019	0.021	0.380 J	--	<0.021	--	0.031 J	<0.079	--	3.0	<0.019	<0.024	0.37	.25	3.8	<0.026	<0.022	--	--	<0.019
Toluene	mg/kg	818	818	1.1072	<0.0086	<0.0088	--	--	0.029	0.042	0.086	0.043	--	<0.0084	--	0.0092 J	0.033 J	--	0.04 J	<0.0074	<0.0095	<0.011	<0.008	<0.0098	<0.011	<0.0088	--	--	<0.0074
Trichloroethene (TCE)	mg/kg	1.3	8.41	0.0036	<0.0096	<0.0099	--	--	<0.01	<0.0083	0.0093	0.017 J	--	<0.0094	--	<0.009	<0.035	--	<0.034	<0.0082	<0.011	0.02 J	0.018 J	.044	<0.012	<0.0098	--	--	<0.0082^
Xylenes, Total	mg/kg	260	260	3.96	<0.013	<0.013	--	--	<0.013	<0.011	0.012	<0.015	--	<0.013	--	<0.012	0.32	--	0.47	--	<0.011	<0.014	<0.016	<0.012	<0.015	<0.016	<0.013	--	--	<0.011

Notes:
WDNR soil RCL Summary table (December 2018) used to establish RCLs for GW protection and direct contact.
<x = compound not detected to a detection limit of x
DC-NI = WDNR Non-Industrial RCL for direct contact risk
DC - I = WDNR Industrial RCL for direct contact risk
GW RCL = WDNR RCL for protection of groundwater
n/v = no value established by WAC (Wis. Adm. Code) or WDNR Soil RCL Summary Table
MS and/or MSD = matrix spike and/or matrix spike duplicate

RCL = residual contaminant level
^ = Instrument related QC is outside acceptance limits.
iui = instrument units as isobutylene
mg/kg = milligrams per kilogram
-- = not sampled
J = compound detected between limit of detection and limit of quantification
B = Compound was found in the blank and sample

Exceeds WDNR RCL for Non-industrial direct contact
Exceeds WDNR RCL for industrial direct contact
Exceeds WDNR RCL for protection of groundwater
xx Exceeds background threshold value (BTV)
(xx) Respective BTV value
x Passing cPAH calc (PAH concentrations don't indicate a DC risk)
x Failing cPAH calculation (PAH concentrations indicate a DC risk)

Table 2
Groundwater Summary Laboratory Detection Results
24, 28, and 32 South Main Street Property: Hartford, WI

Detected Constituents		NR 140, Wis. Adm. Code ES (µg/L)	NR 140, Wis. Adm. Code PAL (µg/L)	TW-1	TW-2	TW-3	DUP-3 / TW-3	Trip Blank	TW-4	DUP / TW-4	TW-5	TW-6	TW-7	Trip Blank
				10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	3/30/2020	3/30/2020	3/30/2020	3/30/2020	3/30/2020	3/30/2020
				Concentrations (µg/L)										
Dissolved Metals	Arsenic	10	1.0	0.0019	0.0039	0.0013	0.0013	--	--	--	--	--	--	--
	Barium	2,000	400	0.051	0.096	0.17	0.16	--	--	--	--	--	--	--
	Chromium	100	10	0.012	0.0080	<0.0011	<0.0011	--	--	--	--	--	--	--
	Lead	15	1.5	0.0023	0.0030	0.0013	0.0010	--	--	--	--	--	--	--
	Selenium	50	10	0.0013 J	0.0017 J	0.0018 J	0.0020 J	--	--	--	--	--	--	--
PAHs	Benzo[a]anthracene	NE	NE	3.2	<0.049	<0.046	<0.047	--	--	--	--	--	0.3	--
	Benzo[a]pyrene	0.2	0.02	3.4	<0.085	<0.081	<0.082	--	--	--	--	--	0.56	--
	Benzo[b]fluoranthene	0.2	0.02	3.8	<0.069	<0.066	<0.067	--	--	--	--	--	0.56	--
	Benzo[g,h,i]perylene	NE	NE	2.6 J	<0.32	<0.31	<0.31	--	--	--	--	--	<0.37	--
	Benzo[k]fluoranthene	NE	NE	2.2	<0.059	<0.052	<0.053	--	--	--	--	--	0.35	--
	Chrysene	0.2	0.02	3.1	<0.059	<0.056	<0.056	--	--	--	--	--	0.26	--
	Dibenz(a,h)anthracene	NE	NE	<0.21	<0.044	<0.042	<0.042	--	--	--	--	--	0.16 J	--
	Fluoranthene	400	80	5.0	<0.39	<0.37	<0.38	--	--	--	--	--	0.52 J	--
	Indeno[1,2,3-cd]pyrene	NE	NE	2.6	<0.064	<0.061	<0.062	--	--	--	--	--	0.34	--
	Phenanthrene	NE	NE	2.6 J	<0.26	<0.25	<0.25	--	--	--	--	--	0.36 J	--
	Pyrene	250	50	4.5	<0.37	<0.35	<0.35	--	--	--	--	--	<0.42	--
VOCs	1,2,4-Trimethylbenzene	480	96	0.63 J,B	0.63 J,B	0.68 J,B	0.68 J,B	<0.36	<0.36	<0.36	<0.36	<0.36	--	<0.36
	Benzene	5	0.5	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	0.16 J	<0.15	--	<0.15
	Chloroform	6	0.6	<0.37	0.41 J	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	--	<0.37
	cis-1,2-Dichloroethene	70	7	<0.41	0.74 J	<0.41	<0.41	<0.41	<0.41	<0.41	2.1	<0.41	--	<0.41
	Naphthalene	100	10	<0.34	<0.34	0.63 J,B	0.75 J,B	<0.34	<0.34	<0.34	<0.34	<0.34	--	<0.34
	n-Butylbenzene	NE	NE	<0.39	<0.39	0.50 J,B	0.59 J,B	<0.39	<0.39	<0.39	<0.39	<0.39	--	<0.39
	Styrene	100	10	<0.39	<0.39	0.46 J,B	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	--	<0.39
	Tetrachloroethene (PCE)	5	0.5	<0.37	4.2	<0.37	<0.37	<0.37	1.6	1.7	420 DL	2.7	--	<0.37
	Toluene	800	160	0.79	0.26 J	<0.15	<0.15	<0.15	<0.15	<0.15	0.41 J	<0.15	--	<0.15
	Trichloroethene (TCE)	5	0.5	<0.16	0.41 J	<0.16	<0.16	<0.16	<0.16	<0.16	1.9	0.39 J	--	<0.16

Notes:
<xxx = compound not detected at a detection limit of xxx
XXX = exceeds NR 140, Wis. Adm. Code prevention action limit (PAL)
XXX = exceeds NR 140, Wis. Adm. Code enforcement standard (ES)
NE = not established by Wisconsin Administrative Code (Wis. Adm. Code)
PAHs = polynuclear aromatic hydrocarbons
VOCs = volatile organic compounds
– = Not analyzed for constituent class
µg/L = micrograms per liter
< LOD = All constituents less than the laboratory detection limit
J = Compound detected between limit of detection and limit of quantification
B = Compound was found in the blank and sample
DL = Compound was detected at the detection limit (DoD/DOE)

APPENDICES

APPENDIX A – SOIL BORING LOGS AND ABANDONMENT FORMS

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to:
Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Numbe		Boring Number
South Main Street Property: 24, 28, & 32 South Main Street			**SB-1**
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Jorjito Last Name: Firm: **Earth Solutions LLC**	Date Drilling Started **10/23/2019** M/D/Y	Date Drilling Completed **10/23/2019** M/D/Y	Drilling Method **Geoprobe**
Unique Well No. / DNR Well Id No. / Well Name	Final Static Water Level	Surface Elevation **985**	Borehole Dia. **2-inch**
Local Grid Origin ¨ (estimated: ¨) or Boring Location ¨ State Plane _____N, _____E **NW ¼ NW ¼of Section 21, T 10 N, R 18 E**	Lat. 43° 19' 1.6"N ---------- Long 88° 22' 43.2"W	Local Grid Location (If applicable) ¨ N ¨ E ____ Feet ¨ S ____ Feet ¨ W	
Facility Id.	County **Washington**	County Code 67	Civil Town/City/or Village **City of Hartford**

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
SB-1 0-2.5	60/60		0-1	FILL, GRAVEL, some sand, dry, sm-med gravel, poorly graded, subangular, no odor, tan	FILL/ GP		N/A	0.3	N/A	D	N/A	N/A	N/A	
			2-3	CLAY, little sm angular gravel, trace sand, moist, low plasticity, no odor, brown	CL			0.2		M				
			4-6	GRAVEL, some sand, dry, med-lg gravel, poorly graded, angular, no odor, tan	GP			0.2		D				
	60/60		7-9	SAND, some angular gravel, moist, med-course sand, poorly graded, no odor, tan-dark brown	SP			0.3		M				
			9-10	GRAVEL, some sand, trace clay, wet, poorly graded, no odor, tan	GP					W				
			10-25	End of boring @ 10 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Erin Goss Firm: STANTEC

This form is authorized by Chapters 144.147 and 162, Wis.Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 or nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to:
Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name South Main Street Property: 24, 28, & 32 South Main Street	License/Permit/Monitoring Numbe		Boring Number **SB-2**
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Jorjito Last Name: Firm: **Earth Solutions LLC**	Date Drilling Started **10/23/2019** M/D/Y	Date Drilling Completed **10/23/2019** M/D/Y	Drilling Method **Geoprobe**
Unique Well No. _ _ _ _ _ _ _ DNR Well Id No. Well Name	Final Static Water Level	Surface Elevation **987**	Borehole Dia. **2-inch**
Local Grid Origin ¨ (estimated: ¨) or Boring Location ¨ State Plane _____N, _____E **NW ¼ NW ¼of Section 21, T 10 N, R 18 E**	Lat. 43˚ 19' 1.6"N ---------- Long 88˚ 22' 42.6"W	Local Grid Location (If applicable) ¨ N ¨ E ____ Feet ¨ S _____ Feet ¨ W	
Facility Id.	County **Washington**	County Code 67	Civil Town/City/or Village **City of Hartford**

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	SAMPLE Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
			-	FILL, GRAVEL, some sand, dry, med-lg gravel, poorly graded, angular, no odor, tan	FILL/ GP		N/A		N/A	D	N/A	N/A	N/A	
			-1											
			-	CLAY, trace sm angular gravel, moist, low plasticity, no odor, brown	CL			0.4		M				
SB-2 0-2.5	60/60		-2											
			-											
			-3	GRAVEL, some sand, little clay, moist, med-lg gravel, poorly graded, angular						M				
			-		GP									
			-4	gravel, no odor, tan-brown				0.2						
			-											
			-5											
			-											
			-6	End of boring @ 5 feet										
SB-2 2.5-5			-											
			-7											
			-											
			-8											
			-											
			-9											
			-											
			-10											
			-											
			-11											
			-											
			-12											
			-											
			-13											
			-											
			-14											
			-											
			-15											
			-											
			-16											
			-											
			-17											
			-											
			-18											
			-											
			-19											
			-											
			-20											
			-											
			-21											
			-											
			-22											
			-											
			-23											
			-											
			-24											
			-											
			-25											
			-											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Erin Goss Firm STANTEC

This form is authorized by Chapters 144.147 and 162, Wis.Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 or nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to:
Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Numbe		Boring Number
South Main Street Property: 24, 28, & 32 South Main Street			**SB-3**
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Jorjito Last Name: Firm: **Earth Solutions LLC**	Date Drilling Started **10/23/2019** M/D/Y	Date Drilling Completed **10/23/2019** M/D/Y	Drilling Method **Geoprobe**
Unique Well No. / DNR Well Id No. / Well Name _ _ _ _ _ _	Final Static Water Level	Surface Elevation **992**	Borehole Dia. **2-inch**
Local Grid Origin ¨ (estimated: ¨) or Boring Location ¨ State Plane _____N, _____E **NW ¼ NW ¼of Section 21, T 10 N, R 18 E**	Lat. 43° 19' 1.5"N ---------- Long 88° 22' 41.6"W	Local Grid Location (If applicable) ¨ N ¨ E ____ Feet ¨ S _____ Feet ¨ W	
Facility Id.	County **Washington**	County Code 67	Civil Town/City/or Village **City of Hartford**

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
			0	FILL, SAND, some sm gravel, dry, poorly graded, no odor, dark brown, non-anthropogenic	FILL/ SP		N/A		N/A	D	N/A	N/A	N/A	
SB-3 0-1	60/60		1	CLAY, trace silt, trace med subangular gravel, trace sand, moist, low plasticity, no odor, red	CL			1.1		M				
			2											
			3											
			4					0.4						
			5											
SB-3 5-7.5	60/60		6					1.6						
			7											
			8					1.1						
			9	GRAVEL, some sand, trace red clay, saturated, med-lg gravel, poorly graded, subangular gravel, no odor, red-tan	GP					W				
			10											
			11	End of boring @ 10 feet										
			12											
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Erin Goss Firm STANTEC

This form is authorized by Chapters 144.147 and 162, Wis.Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 or nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to:
Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Numbe		Boring Number
South Main Street Property: 24, 28, & 32 South Main Street			**SB-4**
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Jorjito Last Name: Firm: **Earth Solutions LLC**	Date Drilling Started **10/23/2019** M/D/Y	Date Drilling Completed **10/23/2019** M/D/Y	Drilling Method **Geoprobe**
Unique Well No. / DNR Well Id No. / Well Name	Final Static Water Level	Surface Elevation **988**	Borehole Dia. **2-inch**
Local Grid Origin ¨ (estimated: ¨) or Boring Location ¨ State Plane _____N, _____E **NW ¼ NW ¼of Section 21, T 10 N, R 18 E**	Lat. 43° 19' 1.9"N ---------- Long 88° 22' 42.3"W	Local Grid Location (If applicable) ¨ N ¨ E ____ Feet ¨ S ____ Feet ¨ W	
Facility Id.	County **Washington**	County Code 67	Civil Town/City/or Village **City of Hartford**

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	SAMPLE Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
SB-4 0-2.5	60/60		0	FILL, SAND, some subangular gravel, moist, poorly graded, no odor, dark brown, ground asphalt	FILL/ SP		N/A	2.1	N/A	M	N/A	N/A	N/A	
			3	CLAY, trace sand, trace fine gravel, moist, low plasticity, no odor, red	CL			1.1		M				
			5	GRAVEL, some sand, dry, med-lg gravel, poorly graded, no odor, tan	GP			1.2		D				
	60/60		8	SAND, trace gravel, moist, med-course, sugary texture, poorly graded, no odor, tan-brown	SP			0.6		M				
			10	GRAVEL, some sand, trace clay, wet, med-lg gravel, poorly graded, no odor, red-tan	GP					W				
			11	End of boring @ 10 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Erin Goss Firm: STANTEC

This form is authorized by Chapters 144.147 and 162, Wis.Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 or nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to:
Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name South Main Street Property: 24, 28, & 32 South Main Street	License/Permit/Monitoring Numbe		Boring Number **SB-5**
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Jorjito Last Name: Firm: **Earth Solutions LLC**	Date Drilling Started **10/23/2019** M/D/Y	Date Drilling Completed **10/23/2019** M/D/Y	Drilling Method **Geoprobe**
Unique Well No. _ _ _ _ _ _ _ DNR Well Id No. Well Name	Final Static Water Level	Surface Elevation **986**	Borehole Dia. **2-inch**
Local Grid Origin ¨ (estimated: ¨) or Boring Location ¨ State Plane _____N, _____E **NW ¼ NW ¼of Section 21, T 10 N, R 18 E**	Lat. 43˚ 19' 1.8"N ---------- Long 88˚ 22' 42.8"W	Local Grid Location (If applicable) ¨ N ¨ E ____ Feet ¨ S _____ Feet ¨ W	
Facility Id.	County **Washington**	County Code 67	Civil Town/City/or Village **City of Hartford**

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
SB-5 0-2.5	60/60		0 -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -12 -13 -14 -15 -16 -17 -18 -19 -20 -21 -22 -23 -24 -25	FILL, SAND, some gravel, moist, poorly graded, no odor, dark brown, ground asphalt	FILL/ SP		N/A		N/A	M	N/A	N/A	N/A	
				FILL, GRAVEL, some sand, dry, med-lg, poorly graded, angular, no odor, tan	FILL/ GP			4.1		D				
				CLAY, trace sm angular gravel, moist, low plasticity, no odor, brown	CL			1.0		M				
				End of boring @ 5 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Erin Goss Firm STANTEC

This form is authorized by Chapters 144.147 and 162, Wis.Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 or nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to:
Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name South Main Street Property: 24, 28, & 32 South Main Street		License/Permit/Monitoring Numbe	Boring Number **SB-6**
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Jorjito Last Name: Firm: **Earth Solutions LLC**		Date Drilling Started **10/23/2019** M/D/Y	Date Drilling Completed **10/23/2019** M/D/Y Drilling Method **Geoprobe**
Unique Well No. _ _ _ _ _ _	DNR Well Id No. Well Name	Final Static Water Level	Surface Elevation **985** Borehole Dia. **2-inch**
Local Grid Origin ¨ (estimated: ¨) or Boring Location ¨ State Plane _____N, _____E **NW ¼ NW ¼of Section 21, T 10 N, R 18 E**		Lat. 43˚ 19' 2.1"N ---------- Long 88˚ 22' 42.8"W	Local Grid Location (If applicable) ¨ N ¨ E ____ Feet ¨ S _____ Feet ¨ W
Facility Id.	County **Washington**	County Code 67	Civil Town/City/or Village **City of Hartford**

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
SB-6 0-2.5	60/60		-1	FILL, SAND, some subangular gravel, moist, poorly graded, no odor, dark brown	FILL/ SP		N/A		N/A	M	N/A	N/A	N/A	
			-2	FILL, GRAVEL, some sand, dry, med-lg, poorly graded, angular, no odor, tan	FILL/ GP			1.9		D				
			-3											
			-4	CLAY, trace sm angular gravel, moist, low plasticity, no odor, brown	CL			0.7		M				
			-5											
			-6	End of boring @ 5 feet										
			-7											
			-8											
			-9											
			-10											
			-11											
			-12											
			-13											
			-14											
			-15											
			-16											
			-17											
			-18											
			-19											
			-20											
			-21											
			-22											
			-23											
			-24											
			-25											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Erin Goss Firm STANTEC

This form is authorized by Chapters 144.147 and 162, Wis.Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 or nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to:
Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name South Main Street Property: 24, 28, & 32 South Main Street	License/Permit/Monitoring Numbe		Boring Number **TW-1**
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Jorjito Last Name: Firm: **Earth Solutions LLC**	Date Drilling Started **10/23/2019** M/D/Y	Date Drilling Completed **10/23/2019** M/D/Y	Drilling Method **Geoprobe**
Unique Well No. _ _ _ _ _ _ _ DNR Well Id No. Well Name	Final Static Water Level **985.38**	Surface Elevation **993**	Borehole Dia. **2-inch**
Local Grid Origin ¨ (estimated: ¨) or Boring Location ¨ State Plane _____N, _____E **NW ¼ NW ¼of Section 21, T 10 N, R 18 E**	Lat. 43° 19' 1.9"N ---------- Long 88° 22' 41.4"W	Local Grid Location (If applicable) ¨ N ¨ E ____ Feet ¨ S _____ Feet ¨ W	
Facility Id.	County **Washington**	County Code 67	Civil Town/City/or Village **City of Hartford**

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	SAMPLE Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
			-	FILL, GRAVEL, some sand, dry, sm-med,	FILL/				N/A		N/A	N/A	N/A	
			-1	poorly graded, subangular, no odor, tan	GP			0.3						
	60/60		-2											
			-3	moist at 2.5 ft bgs				0.3						
			-4											
TW-1 2.5-5			-5											
	60/60		-6	more sand as progress downward,				0.3						
			-7	med-lg angular gravel										
			-8	SAND, trace clay, wet, poorly graded,										
			-9	no odor, tan	SP			0.3						DUP2 Metals 2.5-5 ft bgs
TW-1 5-7.5	60/60		-10											
			-11					0.2						DUP2 PAH 2.5-5 ft bgs
			-12											
			-13											
			-14	GRAVEL, some sand, wet, lg gravel,										
			-15	poorly graded, angular, no odor, tan	GP			0.2						
			-16	EOB @ 15 feet										
			-17											
			-18											
			-19											
			-20											
			-21											
			-22											
			-23											
			-24											
			-25											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Erin Goss Firm STANTEC

This form is authorized by Chapters 144.147 and 162, Wis.Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 or nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to:
Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name South Main Street Property: 24, 28, & 32 South Main Street	License/Permit/Monitoring Numbe		Boring Number **TW-2**
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Jorjito Last Name: Firm: **Earth Solutions LLC**	Date Drilling Started **10/23/2019** M/D/Y	Date Drilling Completed **10/23/2019** M/D/Y	Drilling Method **Geoprobe**
Unique Well No. _ _ _ _ _ _ _ DNR Well Id No. Well Name	Final Static Water Level **974.97**	Surface Elevation **983**	Borehole Dia. **2-inch**
Local Grid Origin ¨ (estimated: ¨) or Boring Location ¨ State Plane _____N, _____E **NW ¼ NW ¼of Section 21, T 10 N, R 18 E**	Lat. 43° 19' 2.1"N ---------- Long 88° 22' 43.3"W	Local Grid Location (If applicable) ¨ N ¨ E ____ Feet ¨ S ____ Feet ¨ W	
Facility Id.	County **Washington**	County Code 67	Civil Town/City/or Village **City of Hartford**

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	SAMPLE Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
			-	FILL, GRAVEL, dry, sm-lg gravel, poorly graded, subangular, no odor, tan	FILL/ GP			0.3	N/A		N/A	N/A	N/A	
	60/60		-1 - -2 - -3 - -4 -	CLAY, trace sand, moist, low plasticity, no odor, brown	CL			0.2						
TW-2 0-2.5	60/60		-5 - -6 - -7 - -8 -	GRAVEL, some sand, moist, sm gravel, poorly gradd, subangular, no odor, brown-tar	GP			0.4						
TW-2 5-7.5	60/60		-9 - -10 - -11 -	SAND, wet, course, poorly graded, no odor, tan	SP			0.2						
			-12 - -13 - -14 - -15 -	GRAVEL, some sand, trace silt, wet, poorly gradd, angular, no odor, tan	GP			0.4						
			-16 - -17 - -18 - -19 - -20 - -21 - -22 - -23 - -24 - -25 -	EOB @ 15 feet				0.6						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Erin Goss Firm STANTEC

This form is authorized by Chapters 144.147 and 162, Wis.Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 or nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to:
Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Numbe		Boring Number
South Main Street Property: 24, 28, & 32 South Main Street			**TW-3**
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Jorjito Last Name: Firm: **Earth Solutions LLC**	Date Drilling Started **10/23/2019** M/D/Y	Date Drilling Completed **10/23/2019** M/D/Y	Drilling Method **Geoprobe**
Unique Well No. / DNR Well Id No. / Well Name	Final Static Water Level **974.92**	Surface Elevation **983**	Borehole Dia. **2-inch**
Local Grid Origin ¨ (estimated: ¨) or Boring Location ¨ State Plane _____N, _____E **NW ¼ NW ¼of Section 21, T 10 N, R 18 E**	Lat. 43° 1.9' 2.1"N ---------- Long 88° 22' 43.6"W	Local Grid Location (If applicable) ¨ N ¨ E ____ Feet ¨ S _____ Feet ¨ W	
Facility Id.	County **Washington**	County Code 67	Civil Town/City/or Village **City of Hartford**

SAMPLE Number and Type	SAMPLE Length Att. & Recovered (in)	SAMPLE Blow Counts	Depth in Feet (Below ground surface)	SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT	USCS	Graphic Log	Well Diagram	PID/FID	SOIL PROPERTIES: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
TW-3 0-1	60/60		0 1 2 3	FILL, GRAVEL, some sand, dry-moist, lg limestone gravel, poorly graded, subangular, tan NO RECOVERY	FILL/ GP			34.0 0.6	N/A		N/A	N/A	N/A	
TW-3 3-5	60/60		4 5 6 7 8 9 10	FILL, GRAVEL, potentially ground asphalt, d poorly graded, hydrocarbon odor, black FILL, GRAVEL, little sand, trace clay, wet, med-lg gravel, poorly graded, angular, slight hydrocarbon odor, tan	FILL/ GP			0.5 0.3						
	60/60		11 12 13 14 15	GRAVEL, some sand, saturated, med-lg gravel, med grained sand, poorly graded, angular-subangular gravel, hydrocarbon odor, tan	GP			76.5 37.4						
			16 17 18 19 20 21 22 23 24 25	EOB @ 15 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Erin Goss Firm STANTEC

This form is authorized by Chapters 144.147 and 162, Wis.Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 or nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
South Main Street Property: 24, 28, & 32 South Main Street	South Main Street Property	TW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	3/30/2020	3/30/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 21, T 10 N, R 18 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Washington	67	Hartford

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
0-2.5	48 48		0 1	FILL, SAND, well graded fine to coarse subangular black sand, some poorly graded fien grained subangular gravel, moist, faint HC odor	SW			0.4						TW-4 (0-2.5) VOC
			2	CLAY, plastic fat brown clay, some well graded fine to coarse angular gravel, moist, no odor	CH									
2.5-5			3	CLAYEY SAND, plastic fat brown clay with poorly graded fine subangular brown sand, tace fine to medium gravel, trace coarse sand sized black pieces, moist, no odor				0.8						TW-4 (2.5-5) VOC
	48 48		4 5		SC									
			6 7	GRAVEL, well graded fine to coarse angular grey gravel, some well sorted fine to coarse grained subangular tan/yellow sand, wet, no odor										
	48 24		8 9		GW									
			10 11 12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
Rick Kay	Stantec 12075 Corporate Parkway Suite 200 Mequon, Wisconsin 53092	(262) 241-4466 Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number TW-4 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36 36		13 14 15	GRAVEL, well graded fine to coarse angular grey gravel, some well sorted fine to coarse grained subangular tan/yellow sand, wet, no odor *(continued)*	GW									

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
South Main Street Property: 24, 28, & 32 South Main Street	South Main Street Property	TW-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	3/30/2020	3/30/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 21, T 10 N, R 18 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Washington	67	Hartford

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
0-2.5	48 27		1	FILL, SAND, well graded fine to coarse subangular black sand, some poorly graded fien grained subangular gravel, moist, faint HC odor	SW			1.7						TW-5 (0-2.5) VOC
2.5-5			2 3	FILL, CLAYEY SAND with GRAVEL, well graded fine to coarse subangular red/ brown clayey sand with some well graded fine to medium angular grey gravel, moist, HC odor	SC			20.0						TW-5 (2.5-5) VOC
	48 30		4											
5-7.5			5 6					8.2						
			7	GRAVEL, well graded fine to coarse angular grey gravel, some well sorted fine to coarse grained subangular tan/yellow sand, moist, wet at 10', no odor										
7.5-10								3.1						
	48 30		8 9		GW									
			10 11 12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
	Stantec 12075 Corporate Parkway Suite 200 Mequon, Wisconsin 53092	(262) 241-4466 Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number TW-5 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	24 24		13 14	GRAVEL, well graded fine to coarse angular grey gravel, some well sorted fine to coarse grained subangular tan/yellow sand, moist, wet at 10', no odor *(continued)*	GW									

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
South Main Street Property: 24, 28, & 32 South Main Street	South Main Street Property	TW-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	3/30/2020	3/30/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 21, T 10 N, R 18 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Washington	67	Hartford

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
0-2.5	48 33		1	FILL, SAND and GRAVEL, poorly graded medium subangular tan sand and well graded fine to medium angular grey gravel, moist, HC odor present in top 6"	SW			0.3						TW-6 (0-2.5) VOC
2.5-5			3	CLAYEY SAND with GRAVEL, well graded fine to coarse subangular red/brown clayey sand with some well graded fine to medium angular grey gravel, moist, no odor	SC			0.5						TW-6 (2.5-5) VOC
5-7.5	48 30		5	GRAVEL, well graded fine to coarse angular grey gravel, some well sorted fine to coarse grained subangular tan/yellow sand, moist, wet at 11', no odor	GW			0.8						
7.5-10	48 24		8					1.2						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
	Stantec 12075 Corporate Parkway Suite 200 Mequon, Wisconsin 53092	(262) 241-4466 Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number TW-6 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	24 24		13 14	GRAVEL, well graded fine to coarse angular grey gravel, some well sorted fine to coarse grained subangular tan/yellow sand, moist, wet at 11', no odor *(continued)*	GW									

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
South Main Street Property: 24, 28, & 32 South Main Street	South Main Street Property	TW-7

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	3/30/2020	3/30/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 21, T 10 N, R 18 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Washington	67	Hartford

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
0-2.5	48 30		1 2	FILL, SAND, well graded fine to coarse subangular black sand, some poorly graded fien grained subangular gravel, dry, HC odor	SW			0.4						TW-7 (0-2.5) PAH
2.5-5			3					0.5						
	48 33		4	SAND and GRAVEL, well graded fine to medium subangular yellow sand and well graded fine to medium angular grey gravel, dry, no odor	SW									
5-7.5			5 6	SAND with GRAVEL, well graded fine to coarse subangular red/brown sand with some well graded fine to medium angular grey gravel, moist, no odor	SW			0.8						TW-7 (5-7.5) PAH
	42 42		7 8 9 10 11	GRAVEL, well graded fine to coarse angular grey gravel, some well sorted fine to coarse grained subangular tan/yellow sand, moist, wet at 8', no odor	GW									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm Stantec
12075 Corporate Parkway Suite 200 Mequon, Wisconsin 53092
Tel: (262) 241-4466
Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington		

Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	NW	21	10 N	☒ E ☐ W

or Gov't Lot #

Well Street Address: 32 South Main Street

Well City, Village or Town	Well ZIP Code
Hartford	53027

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	

2. Facility / Owner Information

Facility Name: South Main Street Properties
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Washington County
Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Hartford	WI	53027

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/23/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
N/A	N/A

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inches	N/A

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	9.5

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	10	1/3 sack	

6. Comments

SB-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		10/23/2019

Street or Route	Telephone Number
12075 Corporate Parkway, Suite 200	(608) 628-6278

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Mequon	WI	53092-2649	Erin Gross	10/23/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington	_ _ _ _ _ _	

Latitude / Longitude (see instructions)	Format Code	Method Code
_____ N	☐ DD	☐ GPS008
_____ W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	NW	21	10 N	☒ E ☐ W
or Gov't Lot #				

Well Street Address: 32 South Main Street

Well City, Village or Town	Well ZIP Code
Hartford	53027

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	_ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: South Main Street Properties

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Washington County

Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Hartford	WI	53027

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/23/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
N/A	N/A

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inches	N/A

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	9.5

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	5	1/4 sack	

6. Comments

SB-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		10/23/2019

Street or Route	Telephone Number
12075 Corporate Parkway, Suite 200	(608) 628-6278

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Mequon	WI	53092-2649	Erin Gross	10/23/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington	_ _ _ _ _ _	

Latitude / Longitude (see instructions) _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ NW	¼ NW	Section	Township	Range
or Gov't Lot #		21	10 N	☒ E ☐ W

Well Street Address: 32 South Main Street

Well City, Village or Town	Well ZIP Code
Hartford	53027

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name: South Main Street Properties
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Washington County
Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Hartford	WI	53027

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/23/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
N/A	N/A

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inches	N/A

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	8.5

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	10	1/3 sack	

6. Comments

SB-3

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		10/23/2019

Street or Route	Telephone Number
12075 Corporate Parkway, Suite 200	(608) 628-6278

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Mequon	WI	53092-2649	Erin Gross	10/23/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington		

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ NW	¼ NW	Section	Township	Range
or Gov't Lot #		21	10 N	☒ E ☐ W

Well Street Address: 28 South Main Street

Well City, Village or Town	Well ZIP Code
Hartford	53027

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	

2. Facility / Owner Information

Facility Name: South Main Street Properties
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Washington County
Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Hartford	WI	53027

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/23/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
N/A	N/A

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inches	N/A

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	9.5

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	10	1/3 sack	

6. Comments

SB-4

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		10/23/2019

Street or Route	Telephone Number
12075 Corporate Parkway, Suite 200	(608) 628-6278

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Mequon	WI	53092-2649	Erin Gross	10/23/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington	_ _ _ _ _ _ _	

Latitude / Longitude (see instructions) _____ N _____ W | Format Code: ☐ DD ☐ DDM | Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	NW	21	10 N	☒ E ☐ W

or Gov't Lot #

Well Street Address: 28 South Main Street

Well City, Village or Town	Well ZIP Code
Hartford	53027

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	_ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: South Main Street Properties

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Washington County

Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Hartford	WI	53027

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/23/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
N/A	N/A

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inches	N/A

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	N/A

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	5	1/4 sack	

6. Comments

SB-5

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		10/23/2019

Street or Route	Telephone Number
12075 Corporate Parkway, Suite 200	(608) 628-6278

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Mequon	WI	53092-2649	Erin Stoss	10/23/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington		

Latitude / Longitude (see instructions) ____ N ____ W — Format Code: ☐ DD ☐ DDM — Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ NW	¼ NW	Section	Township	Range
or Gov't Lot #		21	10 N	☒ E ☐ W

Well Street Address: 24 South Main Street

Well City, Village or Town	Well ZIP Code
Hartford	53027

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/23/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
N/A	N/A

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inches	N/A

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	N/A

2. Facility / Owner Information

Facility Name: South Main Street Properties

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Washington County

Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Hartford	WI	53027

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	5	1/4 sack	

6. Comments

SB-6

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		10/23/2019

Street or Route	Telephone Number
12075 Corporate Parkway, Suite 200	(608) 628-6278

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Mequon	WI	53092-2649	Erin Stoss	10/23/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington	__ __ __ __ __	

Latitude / Longitude (see instructions) _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	NW	21	10 N	☒ E ☐ W

or Gov't Lot #

Well Street Address: 28 South Main Street

Well City, Village or Town	Well ZIP Code
Hartford	53027

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Well	__ __ __ __ __ __ __

2. Facility / Owner Information

Facility Name: South Main Street Properties
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Washington County
Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Hartford	WI	53027

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/23/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15	2-inches

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inches	15

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	8

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	15	1/2 sack	

6. Comments

TW-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		10/23/2019

Street or Route	Telephone Number
12075 Corporate Parkway, Suite 200	(608) 628-6278

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Mequon	WI	53092-2649	Erin Goss	10/23/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington		

Latitude / Longitude (see Instructions) _____ N _____ W | Format Code: ☐ DD ☐ DDM | Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ NW	¼ NW	Section	Township	Range
or Gov't Lot #		21	10 N	☒ E ☐ W

Well Street Address: 24 South Main Street

Well City, Village or Town	Well ZIP Code
Hartford	53027

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Well	

2. Facility / Owner Information

Facility Name: South Main Street Properties

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Washington County

Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Hartford	WI	53027

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/23/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15	2-inches

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inches	15

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	8

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	15	1/2 sack	

6. Comments

TW-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		10/23/2019

Street or Route	Telephone Number
12075 Corporate Parkway, Suite 200	(608) 628-6278

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Mequon	WI	53092-2649	Erin Gross	10/23/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington		

Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	NW	21	10 N	☒ E ☐ W

or Gov't Lot #

Well Street Address: 28 South Main Street

Well City, Village or Town	Well ZIP Code
Hartford	53027

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Well	

2. Facility / Owner Information

Facility Name: South Main Street Properties
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Washington County
Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Hartford	WI	53027

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/23/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15	2-inches

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inches	15

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	8

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	15	1/2 sack	

6. Comments

TW-3

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		10/23/2019

Street or Route	Telephone Number
12075 Corporate Parkway, Suite 200	(608) 628-6278

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Mequon	WI	53092-2649	Erin Gross	10/23/2019

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington		

Latitude / Longitude (see instructions) ____ N ____ W | Format Code: ☐ DD ☐ DDM | Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	NW	21	10 N	☒ E ☐ W

or Gov't Lot #

Well Street Address: 24 South Main Street

Well City, Village or Town	Well ZIP Code
Hartford	53027

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Well	

2. Facility / Owner Information

Facility Name: South Main Street Properties

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Washington County

Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Hartford	WI	53027

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/30/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15	2-inches

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inches	15

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	7.60

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	15	1/2 sack	

6. Comments

TW-4

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		03/30/2020

Street or Route	Telephone Number
12075 Corporate Parkway, Suite 200	(262) 665-4043

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Mequon	WI	53092-2649		03/30/2020

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington		

Latitude / Longitude (see instructions) ____ N ____ W | Format Code: ☐ DD ☐ DDM | Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	NW	21	10 N	☒ E ☐ W

or Gov't Lot #

Well Street Address: 24 South Main Street

Well City, Village or Town	Well ZIP Code
Hartford	53027

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Well	

2. Facility / Owner Information

Facility Name: South Main Street Properties

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Washington County

Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Hartford	WI	53027

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/30/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14	2-inches

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inches	14

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	9.80

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	14	1/2 sack	

6. Comments

TW-5

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		03/30/2020

Street or Route	Telephone Number
12075 Corporate Parkway, Suite 200	(262) 665-4043

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Mequon	WI	53092-2649		03/30/2020

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington	_ _ _ _ _ _	

Latitude / Longitude (see instructions) _____ N _____ W | Format Code: ☐ DD ☐ DDM | Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	NW	21	10 N	☒ E ☐ W

or Gov't Lot #

Well Street Address: 28 South Main Street

Well City, Village or Town: Hartford | Well ZIP Code: 53027

Subdivision Name | Lot #

Reason for Removal from Service: Temporary Well | WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: South Main Street Properties

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner

Present Well Owner: Washington County

Mailing Address of Present Owner

City of Present Owner: Hartford | State: WI | ZIP Code: 53027

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/30/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
14	2-inches
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2-inches	14

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)? | Depth to Water (feet): 10.38

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	14	1/2 sack	

6. Comments

TW-6

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		03/30/2020

Street or Route: 12075 Corporate Parkway, Suite 200 | Telephone Number: (262) 665-4043

City: Mequon | State: WI | ZIP Code: 53092-2649 | Signature of Person Doing Work | Date Signed: 03/30/2020

DNR Use Only

Date Received	Noted By
Comments	

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Washington	_ _ _ _ _ _	

Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ or Gov't Lot #	¼	Section	Township	Range
NW	NW	21	10 N	☒ E ☐ W

Well Street Address: 28 South Main Street

Well City, Village or Town	Well ZIP Code
Hartford	53027

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Well	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name: South Main Street Properties
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Washington County
Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Hartford	WI	53027

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 03/30/2020
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe: Direct-push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
11.5	2-inches

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inches	11.5

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	8.98

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	11.5	1/3 sack	

6. Comments

TW-7

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Stantec		03/30/2020

Street or Route	Telephone Number
12075 Corporate Parkway, Suite 200	(262) 665-4043

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Mequon	WI	53092-2649		03/30/2020

DNR Use Only

Date Received	Noted By

Comments:

APPENDIX B – LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-172312-1
Client Project/Site: South Main Street Property - 193706313

For:
Stantec Consulting Corp.
12075 Corporate Pkwy, Suite 200
Mequon, Wisconsin 53092

Attn: Stu Gross

Authorized for release by:
11/8/2019 3:50:41 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Job ID: 500-172312-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-172312-1

Comments
No additional comments.

Receipt
The samples were received on 10/24/2019 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1º C and 1.8º C.

GC/MS VOA
Method 8260B: The following samples were diluted due to the abundance of non-target analytes: TW3 0-1 (500-172312-5) and DUP1 (500-172312-7). Elevated reporting limits (RLs) are provided.

Method 8260B: Methylene chloride was detected in the following samples: TW3 0-1 (500-172312-5) and DUP1 (500-172312-7). The method blank associated with these samples was non-detect for Methylene chloride. Methylene chloride is known lab contaminant; therefore all low level detects for this compound should be suspected as lab contamination.

Method 8260B: The method blank for 513383 contained Styrene, n-Butylbenzene, Naphthalene, 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene above the method detection limit (MDL) and below the reporting limit(RL). These target analytes concentrations were below the reporting limit(RL) in the samples; therefore; re-analysis of samples was not performed. Styrene, n-Butylbenzene, Naphthalene, 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene results have been flagged in the associated samples with a "B" flag denote the presence in the blank and possible lab contamination.

Method 8260B: The laboratory control sample (LCS) for 513383 recovered outside control limits for the following analyte: Methyl tert-butyl ether. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to the nature of the sample matrix: TW3 3-5 (500-172312-6), SB3 0-1 (500-172312-12), SB4 0-2.5 (500-172312-14), SB5 0-2.5 (500-172312-15), SB6 0-2.5 (500-172312-16) and TW1 (500-172312-17). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010C: The low-level ICV and CCV in 6010C batch 500-513330 was above the method acceptance limits of 70-130% recovery for Silver. The sample TW3 3-5 (500-172312-6) was bracketed. The mid-range bracketing the data were all within the 90-110% recovery limits. The sample is a non-detect, therefore the data has been reported.

Method 6010C: The low-level ICV and CCV in 6010C batch 500-513330 was above the method acceptance limits of 70-130% recovery for Lead. The sample SB6 0-2.5 (500-172312-16) was bracketed. The low-level standard concentration was insignificant compared with the reported sample results and the sample results were unaffected by the bias at that level. The mid-range bracketing the data were all within the 90-110% recovery limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Job ID: 500-172312-1
Project/Site: South Main Street Property - 193706313

Client Sample ID: TW1 5-7.5
Lab Sample ID: 500-172312-1

No Detections.

Client Sample ID: TW1 2.5-5
Lab Sample ID: 500-172312-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	28	J	72	8.7	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	20	J	72	6.5	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	29	J	35	4.7	ug/Kg	1	☼	8270D	Total/NA
Anthracene	260		35	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	590		35	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	590		35	6.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	680		35	7.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	350		35	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	240		35	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	630		35	9.7	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	68		35	6.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1400		35	6.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	67		35	5.0	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	320		35	9.2	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	55		35	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1000		35	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1100		35	7.1	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.7		0.91	0.31	mg/Kg	1	☼	6010C	Total/NA
Barium	15	B	0.91	0.10	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.12	J B	0.18	0.033	mg/Kg	1	☼	6010C	Total/NA
Chromium	5.5	B	0.91	0.45	mg/Kg	1	☼	6010C	Total/NA
Lead	13		0.46	0.21	mg/Kg	1	☼	6010C	Total/NA
Silver	1.0		0.46	0.12	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.010	J	0.016	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TW2 5-7.5
Lab Sample ID: 500-172312-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	31	J	55	20	ug/Kg	50	☼	8260B	Total/NA
Toluene	9.2	J	14	8.0	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: TW2 0-2.5
Lab Sample ID: 500-172312-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	14	J	38	7.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	13	J	38	8.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	12	J	38	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	16	J	38	7.1	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	11	J	38	9.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	9.9	J	38	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	19	J	38	7.6	ug/Kg	1	☼	8270D	Total/NA
Arsenic	3.0		1.1	0.39	mg/Kg	1	☼	6010C	Total/NA
Barium	37	B	1.1	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.18	J B	0.23	0.041	mg/Kg	1	☼	6010C	Total/NA
Chromium	9.5	B	1.1	0.56	mg/Kg	1	☼	6010C	Total/NA
Lead	28	F1	0.57	0.26	mg/Kg	1	☼	6010C	Total/NA
Silver	1.6		0.57	0.15	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.071		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: TW3 0-1 — Lab Sample ID: 500-172312-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2100		210	76	ug/Kg	200	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	1200		210	81	ug/Kg	200	☼	8260B	Total/NA
Methylene Chloride	530	J	1100	350	ug/Kg	200	☼	8260B	Total/NA
n-Butylbenzene	1300		210	83	ug/Kg	200	☼	8260B	Total/NA
N-Propylbenzene	120	J	210	88	ug/Kg	200	☼	8260B	Total/NA
p-Isopropyltoluene	660		210	77	ug/Kg	200	☼	8260B	Total/NA
sec-Butylbenzene	290		210	85	ug/Kg	200	☼	8260B	Total/NA
Toluene	33	J	53	31	ug/Kg	200	☼	8260B	Total/NA
Xylenes, Total	320		110	47	ug/Kg	200	☼	8260B	Total/NA

Client Sample ID: TW3 3-5 — Lab Sample ID: 500-172312-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	89	J	170	29	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	240		170	24	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	380		170	34	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	680		170	38	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	200		170	57	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	680		170	52	ug/Kg	5	☼	8270D	Total/NA
Chrysene	380		170	48	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	490		170	33	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	170		170	46	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	270		170	25	ug/Kg	5	☼	8270D	Total/NA
Pyrene	490		170	35	ug/Kg	5	☼	8270D	Total/NA
Barium	8.4	B	1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Chromium	3.8	B	1.0	0.51	mg/Kg	1	☼	6010C	Total/NA
Lead	5.2		0.51	0.24	mg/Kg	1	☼	6010C	Total/NA
Silver	0.50	J ^ B	0.51	0.13	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.0074	J	0.016	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: DUP1 — Lab Sample ID: 500-172312-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2300		200	73	ug/Kg	200	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	1400		200	78	ug/Kg	200	☼	8260B	Total/NA
Methylene Chloride	470	J	1000	330	ug/Kg	200	☼	8260B	Total/NA
n-Butylbenzene	1300		200	79	ug/Kg	200	☼	8260B	Total/NA
N-Propylbenzene	140	J	200	85	ug/Kg	200	☼	8260B	Total/NA
p-Isopropyltoluene	760		200	74	ug/Kg	200	☼	8260B	Total/NA
sec-Butylbenzene	310		200	81	ug/Kg	200	☼	8260B	Total/NA
Toluene	40	J	51	30	ug/Kg	200	☼	8260B	Total/NA
Xylenes, Total	470		100	45	ug/Kg	200	☼	8260B	Total/NA

Client Sample ID: DUP2 — Lab Sample ID: 500-172312-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	5.0	J	35	4.7	ug/Kg	1	☼	8270D	Total/NA
Anthracene	10	J	35	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	58		35	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	60		35	6.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	63		35	7.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	37		35	11	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample ID: DUP2 (Continued)

Lab Sample ID: 500-172312-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	29	J	35	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	63		35	9.6	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	10	J	35	6.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	110		35	6.6	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	40		35	9.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	76		35	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	96		35	7.0	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.8		0.97	0.33	mg/Kg	1	☼	6010C	Total/NA
Barium	12	B	0.97	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.099	J B	0.19	0.035	mg/Kg	1	☼	6010C	Total/NA
Chromium	9.8	B	0.97	0.48	mg/Kg	1	☼	6010C	Total/NA
Lead	5.4		0.48	0.22	mg/Kg	1	☼	6010C	Total/NA
Silver	0.84		0.48	0.12	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB1 0-2.5

Lab Sample ID: 500-172312-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	21	J	35	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	31	J	35	6.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	25	J	35	7.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	19	J	35	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	27	J	35	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	31	J	35	9.5	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	38		35	6.5	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	23	J	35	9.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	14	J	35	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	33	J	35	6.9	ug/Kg	1	☼	8270D	Total/NA
Arsenic	2.2		0.99	0.34	mg/Kg	1	☼	6010C	Total/NA
Barium	26	B	0.99	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.18	J B	0.20	0.036	mg/Kg	1	☼	6010C	Total/NA
Chromium	9.7	B	0.99	0.49	mg/Kg	1	☼	6010C	Total/NA
Lead	3.9		0.49	0.23	mg/Kg	1	☼	6010C	Total/NA
Silver	1.5		0.49	0.13	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB2 0-2.5

Lab Sample ID: 500-172312-10

No Detections.

Client Sample ID: SB2 2.5-5

Lab Sample ID: 500-172312-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	11	J	37	7.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	13	J	37	8.0	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	15	J	37	6.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	14	J	37	7.4	ug/Kg	1	☼	8270D	Total/NA
Arsenic	6.5		1.0	0.36	mg/Kg	1	☼	6010C	Total/NA
Barium	47	B	1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.25	B	0.21	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	11	B	1.0	0.52	mg/Kg	1	☼	6010C	Total/NA
Lead	8.4		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA
Silver	4.6		0.52	0.13	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.017	J	0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: SB3 0-1 — Lab Sample ID: 500-172312-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	2000		350	47	ug/Kg	10	☼	8270D	Total/NA
Anthracene	1200		350	59	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	3800		350	48	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	4700		350	69	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	6300		350	77	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1800		350	110	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	2700		350	100	ug/Kg	10	☼	8270D	Total/NA
Chrysene	4300		350	97	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	450		350	69	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	5400		350	66	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1600		350	92	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	1800		350	49	ug/Kg	10	☼	8270D	Total/NA
Pyrene	5500		350	70	ug/Kg	10	☼	8270D	Total/NA
Arsenic	1.8		0.93	0.32	mg/Kg	1	☼	6010C	Total/NA
Barium	9.9	B	0.93	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.078	J B	0.19	0.033	mg/Kg	1	☼	6010C	Total/NA
Chromium	5.8	B	0.93	0.46	mg/Kg	1	☼	6010C	Total/NA
Lead	9.0		0.47	0.21	mg/Kg	1	☼	6010C	Total/NA
Silver	0.93		0.47	0.12	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB3 5-7.5 — Lab Sample ID: 500-172312-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	29		15	9.0	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: SB4 0-2.5 — Lab Sample ID: 500-172312-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	61		50	17	ug/Kg	50	☼	8260B	Total/NA
Toluene	42		13	7.4	ug/Kg	50	☼	8260B	Total/NA
Acenaphthylene	250	J	340	45	ug/Kg	10	☼	8270D	Total/NA
Anthracene	250	J	340	57	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	1500		340	66	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	1500		340	74	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	690		340	110	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	1300		340	100	ug/Kg	10	☼	8270D	Total/NA
Chrysene	1500		340	93	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	1900		340	63	ug/Kg	10	☼	8270D	Total/NA
Fluorene	110	J	340	48	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	430		340	89	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	890		340	48	ug/Kg	10	☼	8270D	Total/NA
Pyrene	5600		340	68	ug/Kg	10	☼	8270D	Total/NA
Arsenic	1.1		0.90	0.31	mg/Kg	1	☼	6010C	Total/NA
Barium	8.8	B	0.90	0.10	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.060	J B	0.18	0.033	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.3	B	0.90	0.45	mg/Kg	1	☼	6010C	Total/NA
Lead	8.9		0.45	0.21	mg/Kg	1	☼	6010C	Total/NA
Silver	0.74		0.45	0.12	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: SB5 0-2.5 — Lab Sample ID: 500-172312-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	54	J	57	19	ug/Kg	50	☼	8260B	Total/NA
Toluene	86		14	8.3	ug/Kg	50	☼	8260B	Total/NA
Acenaphthylene	200		170	23	ug/Kg	5	☼	8270D	Total/NA
Anthracene	130	J	170	29	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	530		170	34	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	620		170	38	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	290		170	52	ug/Kg	5	☼	8270D	Total/NA
Chrysene	560		170	48	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	570		170	33	ug/Kg	5	☼	8270D	Total/NA
Fluorene	66	J	170	25	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	200		170	46	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	200		170	25	ug/Kg	5	☼	8270D	Total/NA
Pyrene	680		170	35	ug/Kg	5	☼	8270D	Total/NA
Arsenic	1.5		0.94	0.32	mg/Kg	1	☼	6010C	Total/NA
Barium	15	B	0.94	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.088	J B	0.19	0.034	mg/Kg	1	☼	6010C	Total/NA
Chromium	6.7	B	0.94	0.46	mg/Kg	1	☼	6010C	Total/NA
Lead	5.6		0.47	0.22	mg/Kg	1	☼	6010C	Total/NA
Silver	1.3		0.47	0.12	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB6 0-2.5 — Lab Sample ID: 500-172312-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	380		67	25	ug/Kg	50	☼	8260B	Total/NA
Toluene	43		17	9.8	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	17	J	33	11	ug/Kg	50	☼	8260B	Total/NA
Benzo[a]anthracene	54	J	190	26	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	110	J	190	37	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	120	J	190	41	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	150	J	190	61	ug/Kg	5	☼	8270D	Total/NA
Chrysene	150	J	190	52	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	140	J	190	35	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	79	J	190	27	ug/Kg	5	☼	8270D	Total/NA
Pyrene	150	J	190	38	ug/Kg	5	☼	8270D	Total/NA
Arsenic	7.5		1.0	0.34	mg/Kg	1	☼	6010C	Total/NA
Barium	78	B	1.0	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.30	B	0.20	0.036	mg/Kg	1	☼	6010C	Total/NA
Chromium	16	B	1.0	0.49	mg/Kg	1	☼	6010C	Total/NA
Lead	26	^	0.50	0.23	mg/Kg	1	☼	6010C	Total/NA
Silver	4.6		0.50	0.13	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.016	J	0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TW1 — Lab Sample ID: 500-172312-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.63	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Toluene	0.79		0.50	0.15	ug/L	1		8260B	Total/NA
Benzo[a]anthracene	3.2		0.83	0.24	ug/L	5		8270D	Total/NA
Benzo[a]pyrene	3.4		0.83	0.41	ug/L	5		8270D	Total/NA
Benzo[b]fluoranthene	3.8		0.83	0.34	ug/L	5		8270D	Total/NA
Benzo[g,h,i]perylene	2.6	J	4.2	1.6	ug/L	5		8270D	Total/NA
Benzo[k]fluoranthene	2.2		0.83	0.27	ug/L	5		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TW1 (Continued)

Lab Sample ID: 500-172312-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	3.1		0.83	0.28	ug/L	5		8270D	Total/NA
Fluoranthene	5.0		4.2	1.9	ug/L	5		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2.6		0.83	0.31	ug/L	5		8270D	Total/NA
Phenanthrene	2.6	J	4.2	1.3	ug/L	5		8270D	Total/NA
Pyrene	4.5		4.2	1.8	ug/L	5		8270D	Total/NA
Arsenic	0.0019		0.0010	0.00023	mg/L	1		6020A	Dissolved
Barium	0.051		0.0025	0.00073	mg/L	1		6020A	Dissolved
Chromium	0.012		0.0050	0.0011	mg/L	1		6020A	Dissolved
Lead	0.0023		0.00050	0.00019	mg/L	1		6020A	Dissolved
Selenium	0.0013	J	0.0025	0.00098	mg/L	1		6020A	Dissolved

Client Sample ID: TW2

Lab Sample ID: 500-172312-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.63	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Chloroform	0.41	J	2.0	0.37	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.74	J	1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	4.2		1.0	0.37	ug/L	1		8260B	Total/NA
Toluene	0.26	J	0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	0.41	J	0.50	0.16	ug/L	1		8260B	Total/NA
Arsenic	0.0039		0.0010	0.00023	mg/L	1		6020A	Dissolved
Barium	0.096		0.0025	0.00073	mg/L	1		6020A	Dissolved
Chromium	0.0080		0.0050	0.0011	mg/L	1		6020A	Dissolved
Lead	0.0030		0.00050	0.00019	mg/L	1		6020A	Dissolved
Selenium	0.0017	J	0.0025	0.00098	mg/L	1		6020A	Dissolved

Client Sample ID: TW3

Lab Sample ID: 500-172312-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.68	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Naphthalene	0.63	J B	1.0	0.34	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.50	J B	1.0	0.39	ug/L	1		8260B	Total/NA
Styrene	0.46	J B	1.0	0.39	ug/L	1		8260B	Total/NA
Arsenic	0.0013		0.0010	0.00023	mg/L	1		6020A	Dissolved
Barium	0.17		0.0025	0.00073	mg/L	1		6020A	Dissolved
Lead	0.0013		0.00050	0.00019	mg/L	1		6020A	Dissolved
Selenium	0.0018	J	0.0025	0.00098	mg/L	1		6020A	Dissolved

Client Sample ID: DUP3

Lab Sample ID: 500-172312-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.68	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Naphthalene	0.75	J B	1.0	0.34	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.59	J B	1.0	0.39	ug/L	1		8260B	Total/NA
Arsenic	0.0013		0.0010	0.00023	mg/L	1		6020A	Dissolved
Barium	0.16		0.0025	0.00073	mg/L	1		6020A	Dissolved
Lead	0.0010		0.00050	0.00019	mg/L	1		6020A	Dissolved
Selenium	0.0020	J	0.0025	0.00098	mg/L	1		6020A	Dissolved

Client Sample ID: Trip Blank (HCl)

Lab Sample ID: 500-172312-21

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: Trip Blank (MeOH)

Lab Sample ID: 500-172312-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichloropropane	410		100	21	ug/Kg	50	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-172312-1	TW1 5-7.5	Solid	10/23/19 10:15	10/24/19 09:05	
500-172312-2	TW1 2.5-5	Solid	10/23/19 10:17	10/24/19 09:05	
500-172312-3	TW2 5-7.5	Solid	10/23/19 10:45	10/24/19 09:05	
500-172312-4	TW2 0-2.5	Solid	10/23/19 10:47	10/24/19 09:05	
500-172312-5	TW3 0-1	Solid	10/23/19 11:10	10/24/19 09:05	
500-172312-6	TW3 3-5	Solid	10/23/19 11:12	10/24/19 09:05	
500-172312-7	DUP1	Solid	10/23/19 11:15	10/24/19 09:05	
500-172312-8	DUP2	Solid	10/23/19 11:25	10/24/19 09:05	
500-172312-9	SB1 0-2.5	Solid	10/23/19 11:45	10/24/19 09:05	
500-172312-10	SB2 0-2.5	Solid	10/23/19 14:30	10/24/19 09:05	
500-172312-11	SB2 2.5-5	Solid	10/23/19 14:32	10/24/19 09:05	
500-172312-12	SB3 0-1	Solid	10/23/19 14:40	10/24/19 09:05	
500-172312-13	SB3 5-7.5	Solid	10/23/19 14:42	10/24/19 09:05	
500-172312-14	SB4 0-2.5	Solid	10/23/19 14:50	10/24/19 09:05	
500-172312-15	SB5 0-2.5	Solid	10/23/19 15:00	10/24/19 09:05	
500-172312-16	SB6 0-2.5	Solid	10/23/19 15:05	10/24/19 09:05	
500-172312-17	TW1	Water	10/23/19 12:55	10/24/19 09:05	
500-172312-18	TW2	Water	10/23/19 13:15	10/24/19 09:05	
500-172312-19	TW3	Water	10/23/19 13:35	10/24/19 09:05	
500-172312-20	DUP3	Water	10/23/19 13:37	10/24/19 09:05	
500-172312-21	Trip Blank (HCl)	Water	10/23/19 00:00	10/24/19 09:05	
500-172312-22	Trip Blank (MeOH)	Solid	10/23/19 00:00	10/24/19 09:05	

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: TW1 5-7.5
Date Collected: 10/23/19 10:15
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-1
Matrix: Solid
Percent Solids: 93.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<26		57	26	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,1,1-Trichloroethane	<22		57	22	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,1,2,2-Tetrachloroethane	<23		57	23	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,1,2-Trichloroethane	<20		57	20	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,1-Dichloroethane	<23		57	23	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,1-Dichloroethene	<22		57	22	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,1-Dichloropropene	<17		57	17	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,2,3-Trichlorobenzene	<26		57	26	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,2,3-Trichloropropane	<24		110	24	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,2,4-Trichlorobenzene	<20		57	20	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,2,4-Trimethylbenzene	<20		57	20	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,2-Dibromo-3-Chloropropane	<110		290	110	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,2-Dibromoethane	<22		57	22	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,2-Dichlorobenzene	<19		57	19	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,2-Dichloroethane	<22		57	22	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,2-Dichloropropane	<24		57	24	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,3,5-Trimethylbenzene	<22		57	22	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,3-Dichlorobenzene	<23		57	23	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,3-Dichloropropane	<21		57	21	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
1,4-Dichlorobenzene	<21		57	21	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
2,2-Dichloropropane	<25		57	25	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
2-Chlorotoluene	<18		57	18	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
4-Chlorotoluene	<20		57	20	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Benzene	<8.3		14	8.3	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Bromobenzene	<20		57	20	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Bromochloromethane	<24		57	24	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Bromodichloromethane	<21		57	21	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Bromoform	<28		57	28	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Bromomethane	<45		170	45	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Carbon tetrachloride	<22		57	22	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Chlorobenzene	<22		57	22	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Chloroethane	<29		57	29	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Chloroform	<21		110	21	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Chloromethane	<18		57	18	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
cis-1,2-Dichloroethene	<23		57	23	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
cis-1,3-Dichloropropene	<24		57	24	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Dibromochloromethane	<28		57	28	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Dibromomethane	<15		57	15	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Dichlorodifluoromethane	<39		170	39	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Ethylbenzene	<10		14	10	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Hexachlorobutadiene	<25		57	25	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Isopropyl ether	<16		57	16	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Isopropylbenzene	<22		57	22	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Methyl tert-butyl ether	<23		57	23	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Methylene Chloride	<93		290	93	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Naphthalene	<19		57	19	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
n-Butylbenzene	<22		57	22	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
N-Propylbenzene	<24		57	24	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
p-Isopropyltoluene	<21		57	21	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50

Client Sample ID: TW1 5-7.5 — Lab Sample ID: 500-172312-1

Date Collected: 10/23/19 10:15 — **Matrix: Solid**
Date Received: 10/24/19 09:05 — **Percent Solids: 93.4**

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<23		57	23	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Styrene	<22		57	22	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
tert-Butylbenzene	<23		57	23	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Tetrachloroethene	<21		57	21	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Toluene	<8.4		14	8.4	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
trans-1,2-Dichloroethene	<20		57	20	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
trans-1,3-Dichloropropene	<21		57	21	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Trichloroethene	<9.4		29	9.4	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Trichlorofluoromethane	<24		57	24	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Vinyl chloride	<15		57	15	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50
Xylenes, Total	<13		29	13	ug/Kg	☼	10/23/19 10:15	11/04/19 14:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*	*10/23/19 10:15*	*11/04/19 14:52*	*50*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*10/23/19 10:15*	*11/04/19 14:52*	*50*
Dibromofluoromethane	*100*		*75 - 120*	*10/23/19 10:15*	*11/04/19 14:52*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*10/23/19 10:15*	*11/04/19 14:52*	*50*

Client Sample ID: TW1 2.5-5 — Lab Sample ID: 500-172312-2

Date Collected: 10/23/19 10:17 — **Matrix: Solid**
Date Received: 10/24/19 09:05 — **Percent Solids: 93.3**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**28**	**J**	72	8.7	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
2-Methylnaphthalene	**20**	**J**	72	6.5	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Acenaphthene	<6.4		35	6.4	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Acenaphthylene	**29**	**J**	35	4.7	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Anthracene	**260**		35	5.9	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Benzo[a]anthracene	**590**		35	4.8	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Benzo[a]pyrene	**590**		35	6.9	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Benzo[b]fluoranthene	**680**		35	7.7	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Benzo[g,h,i]perylene	**350**		35	11	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Benzo[k]fluoranthene	**240**		35	10	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Chrysene	**630**		35	9.7	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Dibenz(a,h)anthracene	**68**		35	6.9	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Fluoranthene	**1400**		35	6.6	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Fluorene	**67**		35	5.0	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Indeno[1,2,3-cd]pyrene	**320**		35	9.2	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Naphthalene	**55**		35	5.5	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Phenanthrene	**1000**		35	5.0	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1
Pyrene	**1100**		35	7.1	ug/Kg	☼	10/31/19 17:47	11/01/19 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*43 - 145*	*10/31/19 17:47*	*11/01/19 12:59*	*1*
Nitrobenzene-d5 (Surr)	*59*		*37 - 147*	*10/31/19 17:47*	*11/01/19 12:59*	*1*
Terphenyl-d14 (Surr)	*102*		*42 - 157*	*10/31/19 17:47*	*11/01/19 12:59*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.7**		0.91	0.31	mg/Kg	☼	10/31/19 17:38	11/04/19 13:04	1

Client Sample ID: TW1 2.5-5 — Lab Sample ID: 500-172312-2

Date Collected: 10/23/19 10:17 — **Matrix: Solid**
Date Received: 10/24/19 09:05 — **Percent Solids: 93.3**

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	15	B	0.91	0.10	mg/Kg	☼	10/31/19 17:38	11/02/19 00:50	1
Cadmium	0.12	J B	0.18	0.033	mg/Kg	☼	10/31/19 17:38	11/02/19 00:50	1
Chromium	5.5	B	0.91	0.45	mg/Kg	☼	10/31/19 17:38	11/02/19 00:50	1
Lead	13		0.46	0.21	mg/Kg	☼	10/31/19 17:38	11/04/19 13:04	1
Selenium	<0.54		0.91	0.54	mg/Kg	☼	10/31/19 17:38	11/02/19 00:50	1
Silver	1.0		0.46	0.12	mg/Kg	☼	10/31/19 17:38	11/04/19 13:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.016	0.0053	mg/Kg	☼	10/30/19 15:05	10/31/19 09:49	1

Client Sample ID: TW2 5-7.5 — Lab Sample ID: 500-172312-3

Date Collected: 10/23/19 10:45 — **Matrix: Solid**
Date Received: 10/24/19 09:05 — **Percent Solids: 95.3**

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<25		55	25	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,1,1-Trichloroethane	<21		55	21	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,1,2,2-Tetrachloroethane	<22		55	22	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,1,2-Trichloroethane	<19		55	19	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,1-Dichloroethane	<22		55	22	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,1-Dichloroethene	<21		55	21	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,1-Dichloropropene	<16		55	16	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,2,3-Trichlorobenzene	<25		55	25	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,2,3-Trichloropropane	<23		110	23	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,2,4-Trichlorobenzene	<19		55	19	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,2,4-Trimethylbenzene	<20		55	20	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,2-Dibromo-3-Chloropropane	<110		270	110	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,2-Dibromoethane	<21		55	21	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,2-Dichlorobenzene	<18		55	18	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,2-Dichloroethane	<21		55	21	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,2-Dichloropropane	<23		55	23	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,3,5-Trimethylbenzene	<21		55	21	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,3-Dichlorobenzene	<22		55	22	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,3-Dichloropropane	<20		55	20	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
1,4-Dichlorobenzene	<20		55	20	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
2,2-Dichloropropane	<24		55	24	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
2-Chlorotoluene	<17		55	17	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
4-Chlorotoluene	<19		55	19	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Benzene	<8.0		14	8.0	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Bromobenzene	<19		55	19	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Bromochloromethane	<23		55	23	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Bromodichloromethane	<20		55	20	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Bromoform	<26		55	26	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Bromomethane	<44		160	44	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Carbon tetrachloride	<21		55	21	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Chlorobenzene	<21		55	21	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Chloroethane	<28		55	28	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Chloroform	<20		110	20	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50

Client Sample ID: TW2 5-7.5

Lab Sample ID: 500-172312-3

Date Collected: 10/23/19 10:45
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 95.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<17		55	17	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
cis-1,2-Dichloroethene	<22		55	22	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
cis-1,3-Dichloropropene	<23		55	23	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Dibromochloromethane	<27		55	27	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Dibromomethane	<15		55	15	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Dichlorodifluoromethane	<37		160	37	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Ethylbenzene	<10		14	10	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Hexachlorobutadiene	<24		55	24	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Isopropyl ether	<15		55	15	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Isopropylbenzene	<21		55	21	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Methyl tert-butyl ether	<22		55	22	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Methylene Chloride	<89		270	89	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Naphthalene	<18		55	18	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
n-Butylbenzene	<21		55	21	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
N-Propylbenzene	<23		55	23	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
p-Isopropyltoluene	<20		55	20	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
sec-Butylbenzene	<22		55	22	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Styrene	<21		55	21	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
tert-Butylbenzene	<22		55	22	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Tetrachloroethene	**31**	**J**	55	20	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Toluene	**9.2**	**J**	14	8.0	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
trans-1,2-Dichloroethene	<19		55	19	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
trans-1,3-Dichloropropene	<20		55	20	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Trichloroethene	<9.0		27	9.0	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Trichlorofluoromethane	<23		55	23	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Vinyl chloride	<14		55	14	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50
Xylenes, Total	<12		27	12	ug/Kg	☼	10/23/19 10:45	11/04/19 15:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*10/23/19 10:45*	*11/04/19 15:18*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*10/23/19 10:45*	*11/04/19 15:18*	*50*
Dibromofluoromethane	*99*		*75 - 120*	*10/23/19 10:45*	*11/04/19 15:18*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*10/23/19 10:45*	*11/04/19 15:18*	*50*

Client Sample ID: TW2 0-2.5

Lab Sample ID: 500-172312-4

Date Collected: 10/23/19 10:47
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.3		77	9.3	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
2-Methylnaphthalene	<7.0		77	7.0	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Acenaphthene	<6.9		38	6.9	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Acenaphthylene	<5.0		38	5.0	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Anthracene	<6.4		38	6.4	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Benzo[a]anthracene	<5.1		38	5.1	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Benzo[a]pyrene	**14**	**J**	38	7.4	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Benzo[b]fluoranthene	**13**	**J**	38	8.2	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Benzo[g,h,i]perylene	<12	F1	38	12	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Benzo[k]fluoranthene	<11		38	11	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1

Client Sample ID: TW2 0-2.5

Date Collected: 10/23/19 10:47
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-4

Matrix: Solid
Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**12**	**J**	38	10	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Dibenz(a,h)anthracene	<7.4		38	7.4	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Fluoranthene	**16**	**J**	38	7.1	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Fluorene	<5.4		38	5.4	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Indeno[1,2,3-cd]pyrene	**11**	**J**	38	9.9	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Naphthalene	<5.9		38	5.9	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Phenanthrene	**9.9**	**J**	38	5.3	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1
Pyrene	**19**	**J**	38	7.6	ug/Kg	☼	10/31/19 17:47	11/01/19 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*43 - 145*	*10/31/19 17:47*	*11/01/19 13:26*	*1*
Nitrobenzene-d5 (Surr)	*55*		*37 - 147*	*10/31/19 17:47*	*11/01/19 13:26*	*1*
Terphenyl-d14 (Surr)	*100*		*42 - 157*	*10/31/19 17:47*	*11/01/19 13:26*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.0**		1.1	0.39	mg/Kg	☼	10/31/19 17:38	11/04/19 13:08	1
Barium	**37**	**B**	1.1	0.13	mg/Kg	☼	10/31/19 17:38	11/02/19 00:54	1
Cadmium	**0.18**	**J B**	0.23	0.041	mg/Kg	☼	10/31/19 17:38	11/02/19 00:54	1
Chromium	**9.5**	**B**	1.1	0.56	mg/Kg	☼	10/31/19 17:38	11/02/19 00:54	1
Lead	**28**	**F1**	0.57	0.26	mg/Kg	☼	10/31/19 17:38	11/04/19 13:08	1
Selenium	<0.67	F1	1.1	0.67	mg/Kg	☼	10/31/19 17:38	11/02/19 00:54	1
Silver	**1.6**		0.57	0.15	mg/Kg	☼	10/31/19 17:38	11/04/19 13:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.071**		0.017	0.0058	mg/Kg	☼	10/30/19 15:05	10/31/19 09:51	1

Client Sample ID: TW3 0-1

Date Collected: 10/23/19 11:10
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-5

Matrix: Solid
Percent Solids: 96.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<99		210	99	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,1,1-Trichloroethane	<81		210	81	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,1,2,2-Tetrachloroethane	<85		210	85	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,1,2-Trichloroethane	<75		210	75	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,1-Dichloroethane	<88		210	88	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,1-Dichloroethene	<83		210	83	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,1-Dichloropropene	<64		210	64	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,2,3-Trichlorobenzene	<98		210	98	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,2,3-Trichloropropane	<88		430	88	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,2,4-Trichlorobenzene	<73		210	73	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,2,4-Trimethylbenzene	**2100**		210	76	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,2-Dibromo-3-Chloropropane	<420		1100	420	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,2-Dibromoethane	<82		210	82	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,2-Dichlorobenzene	<71		210	71	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,2-Dichloroethane	<84		210	84	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,2-Dichloropropane	<91		210	91	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,3,5-Trimethylbenzene	**1200**		210	81	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200

Client Sample ID: TW3 0-1

Date Collected: 10/23/19 11:10
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-5

Matrix: Solid
Percent Solids: 96.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<85		210	85	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,3-Dichloropropane	<77		210	77	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
1,4-Dichlorobenzene	<78		210	78	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
2,2-Dichloropropane	<95		210	95	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
2-Chlorotoluene	<67		210	67	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
4-Chlorotoluene	<75		210	75	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Benzene	<31		53	31	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Bromobenzene	<76		210	76	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Bromochloromethane	<91		210	91	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Bromodichloromethane	<79		210	79	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Bromoform	<100		210	100	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Bromomethane	<170		640	170	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Carbon tetrachloride	<82		210	82	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Chlorobenzene	<82		210	82	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Chloroethane	<110		210	110	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Chloroform	<79		430	79	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Chloromethane	<68		210	68	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
cis-1,2-Dichloroethene	<87		210	87	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
cis-1,3-Dichloropropene	<89		210	89	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Dibromochloromethane	<100		210	100	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Dibromomethane	<58		210	58	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Dichlorodifluoromethane	<140		640	140	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Ethylbenzene	<39		53	39	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Hexachlorobutadiene	<95		210	95	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Isopropyl ether	<59		210	59	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Isopropylbenzene	<82		210	82	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Methyl tert-butyl ether	<84		210	84	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Methylene Chloride	**530**	**J**	1100	350	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Naphthalene	<71		210	71	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
n-Butylbenzene	**1300**		210	83	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
N-Propylbenzene	**120**	**J**	210	88	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
p-Isopropyltoluene	**660**		210	77	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
sec-Butylbenzene	**290**		210	85	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Styrene	<82		210	82	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
tert-Butylbenzene	<85		210	85	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Tetrachloroethene	<79		210	79	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Toluene	**33**	**J**	53	31	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
trans-1,2-Dichloroethene	<75		210	75	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
trans-1,3-Dichloropropene	<77		210	77	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Trichloroethene	<35		110	35	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Trichlorofluoromethane	<91		210	91	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Vinyl chloride	<56		210	56	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200
Xylenes, Total	**320**		110	47	ug/Kg	☼	10/23/19 11:10	11/04/19 15:43	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*10/23/19 11:10*	*11/04/19 15:43*	*200*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*10/23/19 11:10*	*11/04/19 15:43*	*200*
Dibromofluoromethane	*101*		*75 - 120*	*10/23/19 11:10*	*11/04/19 15:43*	*200*
Toluene-d8 (Surr)	*96*		*75 - 120*	*10/23/19 11:10*	*11/04/19 15:43*	*200*

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: TW3 3-5

Date Collected: 10/23/19 11:12
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-6

Matrix: Solid
Percent Solids: 94.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<43		350	43	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
2-Methylnaphthalene	<32		350	32	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Acenaphthene	<32		170	32	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Acenaphthylene	<23		170	23	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Anthracene	**89**	**J**	170	29	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Benzo[a]anthracene	**240**		170	24	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Benzo[a]pyrene	**380**		170	34	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Benzo[b]fluoranthene	**680**		170	38	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Benzo[g,h,i]perylene	**200**		170	57	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Benzo[k]fluoranthene	**680**		170	52	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Chrysene	**380**		170	48	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Dibenz(a,h)anthracene	<34		170	34	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Fluoranthene	**490**		170	33	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Fluorene	<25		170	25	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Indeno[1,2,3-cd]pyrene	**170**		170	46	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Naphthalene	<27		170	27	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Phenanthrene	**270**		170	25	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5
Pyrene	**490**		170	35	ug/Kg	☼	10/31/19 17:47	11/04/19 14:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*43 - 145*	*10/31/19 17:47*	*11/04/19 14:47*	*5*
Nitrobenzene-d5 (Surr)	*63*		*37 - 147*	*10/31/19 17:47*	*11/04/19 14:47*	*5*
Terphenyl-d14 (Surr)	*117*		*42 - 157*	*10/31/19 17:47*	*11/04/19 14:47*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.35		1.0	0.35	mg/Kg	☼	10/31/19 17:38	11/04/19 13:36	1
Barium	**8.4**	**B**	1.0	0.12	mg/Kg	☼	10/31/19 17:38	11/02/19 01:15	1
Cadmium	<0.037		0.20	0.037	mg/Kg	☼	10/31/19 17:38	11/02/19 01:15	1
Chromium	**3.8**	**B**	1.0	0.51	mg/Kg	☼	10/31/19 17:38	11/02/19 01:15	1
Lead	**5.2**		0.51	0.24	mg/Kg	☼	10/31/19 17:38	11/04/19 13:36	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	10/31/19 17:38	11/02/19 01:15	1
Silver	**0.50**	**J ^ B**	0.51	0.13	mg/Kg	☼	10/31/19 17:38	11/02/19 01:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0074**	**J**	0.016	0.0053	mg/Kg	☼	10/30/19 15:05	10/31/19 10:04	1

Client Sample ID: DUP1

Date Collected: 10/23/19 11:15
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-7

Matrix: Solid
Percent Solids: 97.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<94		200	94	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,1,1-Trichloroethane	<78		200	78	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,1,2,2-Tetrachloroethane	<81		200	81	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,1,2-Trichloroethane	<72		200	72	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,1-Dichloroethane	<84		200	84	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,1-Dichloroethene	<80		200	80	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,1-Dichloropropene	<61		200	61	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200

Client Sample ID: DUP1
Lab Sample ID: 500-172312-7

Date Collected: 10/23/19 11:15
Matrix: Solid

Date Received: 10/24/19 09:05
Percent Solids: 97.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<94		200	94	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,2,3-Trichloropropane	<85		410	85	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,2,4-Trichlorobenzene	<70		200	70	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,2,4-Trimethylbenzene	**2300**		200	73	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,2-Dibromo-3-Chloropropane	<410		1000	410	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,2-Dibromoethane	<79		200	79	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,2-Dichlorobenzene	<68		200	68	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,2-Dichloroethane	<80		200	80	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,2-Dichloropropane	<87		200	87	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,3,5-Trimethylbenzene	**1400**		200	78	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,3-Dichlorobenzene	<82		200	82	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,3-Dichloropropane	<74		200	74	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
1,4-Dichlorobenzene	<74		200	74	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
2,2-Dichloropropane	<91		200	91	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
2-Chlorotoluene	<64		200	64	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
4-Chlorotoluene	<72		200	72	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Benzene	<30		51	30	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Bromobenzene	<73		200	73	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Bromochloromethane	<87		200	87	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Bromodichloromethane	<76		200	76	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Bromoform	<99		200	99	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Bromomethane	<160		610	160	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Carbon tetrachloride	<78		200	78	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Chlorobenzene	<79		200	79	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Chloroethane	<100		200	100	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Chloroform	<76		410	76	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Chloromethane	<65		200	65	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
cis-1,2-Dichloroethene	<83		200	83	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
cis-1,3-Dichloropropene	<85		200	85	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Dibromochloromethane	<100		200	100	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Dibromomethane	<55		200	55	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Dichlorodifluoromethane	<140		610	140	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Ethylbenzene	<37		51	37	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Hexachlorobutadiene	<91		200	91	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Isopropyl ether	<56		200	56	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Isopropylbenzene	<78		200	78	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Methyl tert-butyl ether	<81		200	81	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Methylene Chloride	**470**	**J**	1000	330	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Naphthalene	<68		200	68	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
n-Butylbenzene	**1300**		200	79	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
N-Propylbenzene	**140**	**J**	200	85	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
p-Isopropyltoluene	**760**		200	74	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
sec-Butylbenzene	**310**		200	81	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Styrene	<79		200	79	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
tert-Butylbenzene	<81		200	81	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Tetrachloroethene	<76		200	76	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Toluene	**40**	**J**	51	30	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
trans-1,2-Dichloroethene	<72		200	72	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
trans-1,3-Dichloropropene	<74		200	74	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200

Client Sample ID: DUP1 — Lab Sample ID: 500-172312-7

Date Collected: 10/23/19 11:15 — **Matrix: Solid**
Date Received: 10/24/19 09:05 — **Percent Solids: 97.9**

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<34		100	34	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Trichlorofluoromethane	<87		200	87	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Vinyl chloride	<54		200	54	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200
Xylenes, Total	**470**		100	45	ug/Kg	☼	10/23/19 11:15	11/04/19 16:09	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*10/23/19 11:15*	*11/04/19 16:09*	*200*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*10/23/19 11:15*	*11/04/19 16:09*	*200*
Dibromofluoromethane	*100*		*75 - 120*	*10/23/19 11:15*	*11/04/19 16:09*	*200*
Toluene-d8 (Surr)	*97*		*75 - 120*	*10/23/19 11:15*	*11/04/19 16:09*	*200*

Client Sample ID: DUP2 — Lab Sample ID: 500-172312-8

Date Collected: 10/23/19 11:25 — **Matrix: Solid**
Date Received: 10/24/19 09:05 — **Percent Solids: 93.8**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.6		71	8.6	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
2-Methylnaphthalene	<6.5		71	6.5	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Acenaphthene	<6.4		35	6.4	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Acenaphthylene	**5.0**	**J**	35	4.7	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Anthracene	**10**	**J**	35	5.9	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Benzo[a]anthracene	**58**		35	4.8	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Benzo[a]pyrene	**60**		35	6.8	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Benzo[b]fluoranthene	**63**		35	7.6	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Benzo[g,h,i]perylene	**37**		35	11	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Benzo[k]fluoranthene	**29**	**J**	35	10	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Chrysene	**63**		35	9.6	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Dibenz(a,h)anthracene	**10**	**J**	35	6.8	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Fluoranthene	**110**		35	6.6	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Fluorene	<5.0		35	5.0	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Indeno[1,2,3-cd]pyrene	**40**		35	9.2	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Naphthalene	<5.4		35	5.4	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Phenanthrene	**76**		35	4.9	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1
Pyrene	**96**		35	7.0	ug/Kg	☼	10/31/19 17:47	11/01/19 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*43 - 145*	*10/31/19 17:47*	*11/01/19 12:32*	*1*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*10/31/19 17:47*	*11/01/19 12:32*	*1*
Terphenyl-d14 (Surr)	*110*		*42 - 157*	*10/31/19 17:47*	*11/01/19 12:32*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.8**		0.97	0.33	mg/Kg	☼	10/31/19 17:38	11/04/19 13:40	1
Barium	**12**	**B**	0.97	0.11	mg/Kg	☼	10/31/19 17:38	11/02/19 01:19	1
Cadmium	**0.099**	**J B**	0.19	0.035	mg/Kg	☼	10/31/19 17:38	11/02/19 01:19	1
Chromium	**9.8**	**B**	0.97	0.48	mg/Kg	☼	10/31/19 17:38	11/02/19 01:19	1
Lead	**5.4**		0.48	0.22	mg/Kg	☼	10/31/19 17:38	11/04/19 13:40	1
Selenium	<0.57		0.97	0.57	mg/Kg	☼	10/31/19 17:38	11/02/19 01:19	1
Silver	**0.84**		0.48	0.12	mg/Kg	☼	10/31/19 17:38	11/04/19 13:40	1

Client Sample ID: DUP2
Lab Sample ID: 500-172312-8
Date Collected: 10/23/19 11:25 **Matrix: Solid**
Date Received: 10/24/19 09:05 **Percent Solids: 93.8**

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg	☼	10/30/19 15:05	10/31/19 10:06	1

Client Sample ID: SB1 0-2.5
Lab Sample ID: 500-172312-9
Date Collected: 10/23/19 11:45 **Matrix: Solid**
Date Received: 10/24/19 09:05 **Percent Solids: 92.9**

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<27		58	27	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,1,1-Trichloroethane	<22		58	22	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,1,2,2-Tetrachloroethane	<23		58	23	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,1,2-Trichloroethane	<21		58	21	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,1-Dichloroethane	<24		58	24	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,1-Dichloroethene	<23		58	23	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,1-Dichloropropene	<17		58	17	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,2,3-Trichlorobenzene	<27		58	27	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,2,3-Trichloropropane	<24		120	24	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,2,4-Trichlorobenzene	<20		58	20	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,2-Dibromo-3-Chloropropane	<120		290	120	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,2-Dibromoethane	<23		58	23	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,2-Dichlorobenzene	<20		58	20	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,2-Dichloroethane	<23		58	23	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,2-Dichloropropane	<25		58	25	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,3-Dichlorobenzene	<23		58	23	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,3-Dichloropropane	<21		58	21	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
1,4-Dichlorobenzene	<21		58	21	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
2,2-Dichloropropane	<26		58	26	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
2-Chlorotoluene	<18		58	18	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
4-Chlorotoluene	<20		58	20	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Benzene	<8.5		15	8.5	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Bromobenzene	<21		58	21	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Bromochloromethane	<25		58	25	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Bromodichloromethane	<22		58	22	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Bromoform	<28		58	28	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Bromomethane	<47		180	47	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Carbon tetrachloride	<22		58	22	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Chlorobenzene	<23		58	23	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Chloroethane	<29		58	29	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Chloroform	<22		120	22	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Chloromethane	<19		58	19	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
cis-1,2-Dichloroethene	<24		58	24	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
cis-1,3-Dichloropropene	<24		58	24	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Dibromochloromethane	<29		58	29	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Dibromomethane	<16		58	16	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Dichlorodifluoromethane	<39		180	39	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Ethylbenzene	<11		15	11	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Hexachlorobutadiene	<26		58	26	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Isopropyl ether	<16		58	16	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50

Client Sample ID: SB1 0-2.5

Date Collected: 10/23/19 11:45
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-9

Matrix: Solid
Percent Solids: 92.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<22		58	22	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Methylene Chloride	<95		290	95	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Naphthalene	<20		58	20	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
n-Butylbenzene	<23		58	23	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
N-Propylbenzene	<24		58	24	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
p-Isopropyltoluene	<21		58	21	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
sec-Butylbenzene	<23		58	23	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Styrene	<23		58	23	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
tert-Butylbenzene	<23		58	23	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Tetrachloroethene	<22		58	22	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Toluene	<8.6		15	8.6	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
trans-1,2-Dichloroethene	<20		58	20	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
trans-1,3-Dichloropropene	<21		58	21	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Trichloroethene	<9.6		29	9.6	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Trichlorofluoromethane	<25		58	25	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Vinyl chloride	<15		58	15	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50
Xylenes, Total	<13		29	13	ug/Kg	☼	10/23/19 11:45	11/04/19 16:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*10/23/19 11:45*	*11/04/19 16:35*	*50*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*10/23/19 11:45*	*11/04/19 16:35*	*50*
Dibromofluoromethane	*100*		*75 - 120*	*10/23/19 11:45*	*11/04/19 16:35*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*10/23/19 11:45*	*11/04/19 16:35*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.5		70	8.5	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
2-Methylnaphthalene	<6.4		70	6.4	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Acenaphthene	<6.3		35	6.3	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Acenaphthylene	<4.6		35	4.6	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Anthracene	<5.8		35	5.8	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Benzo[a]anthracene	**21**	**J**	35	4.7	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Benzo[a]pyrene	**31**	**J**	35	6.8	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Benzo[b]fluoranthene	**25**	**J**	35	7.5	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Benzo[g,h,i]perylene	**19**	**J**	35	11	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Benzo[k]fluoranthene	**27**	**J**	35	10	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Chrysene	**31**	**J**	35	9.5	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Dibenz(a,h)anthracene	<6.7		35	6.7	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Fluoranthene	**38**		35	6.5	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Fluorene	<4.9		35	4.9	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Indeno[1,2,3-cd]pyrene	**23**	**J**	35	9.0	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Naphthalene	<5.4		35	5.4	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Phenanthrene	**14**	**J**	35	4.9	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1
Pyrene	**33**	**J**	35	6.9	ug/Kg	☼	10/31/19 17:47	11/01/19 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*43 - 145*	*10/31/19 17:47*	*11/01/19 10:44*	*1*
Nitrobenzene-d5 (Surr)	*58*		*37 - 147*	*10/31/19 17:47*	*11/01/19 10:44*	*1*
Terphenyl-d14 (Surr)	*107*		*42 - 157*	*10/31/19 17:47*	*11/01/19 10:44*	*1*

Client Sample ID: SB1 0-2.5

Lab Sample ID: 500-172312-9
Date Collected: 10/23/19 11:45
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 92.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.2**		0.99	0.34	mg/Kg	☼	10/31/19 17:38	11/04/19 13:44	1
Barium	**26**	**B**	0.99	0.11	mg/Kg	☼	10/31/19 17:38	11/02/19 01:23	1
Cadmium	**0.18**	**J B**	0.20	0.036	mg/Kg	☼	10/31/19 17:38	11/02/19 01:23	1
Chromium	**9.7**	**B**	0.99	0.49	mg/Kg	☼	10/31/19 17:38	11/02/19 01:23	1
Lead	**3.9**		0.49	0.23	mg/Kg	☼	10/31/19 17:38	11/04/19 13:44	1
Selenium	<0.58		0.99	0.58	mg/Kg	☼	10/31/19 17:38	11/02/19 01:23	1
Silver	**1.5**		0.49	0.13	mg/Kg	☼	10/31/19 17:38	11/04/19 13:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg	☼	10/30/19 15:05	10/31/19 10:08	1

Client Sample ID: SB2 0-2.5

Lab Sample ID: 500-172312-10
Date Collected: 10/23/19 14:30
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		60	28	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,1,1-Trichloroethane	<23		60	23	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,1,2,2-Tetrachloroethane	<24		60	24	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,1,2-Trichloroethane	<21		60	21	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,1-Dichloroethane	<25		60	25	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,1-Dichloroethene	<23		60	23	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,1-Dichloropropene	<18		60	18	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,2,3-Trichlorobenzene	<28		60	28	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,2,4-Trichlorobenzene	<21		60	21	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,2,4-Trimethylbenzene	<22		60	22	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,2-Dibromoethane	<23		60	23	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,2-Dichlorobenzene	<20		60	20	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,2-Dichloroethane	<24		60	24	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,2-Dichloropropane	<26		60	26	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,3-Dichlorobenzene	<24		60	24	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,3-Dichloropropane	<22		60	22	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
1,4-Dichlorobenzene	<22		60	22	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
2,2-Dichloropropane	<27		60	27	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
2-Chlorotoluene	<19		60	19	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
4-Chlorotoluene	<21		60	21	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Benzene	<8.8		15	8.8	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Bromobenzene	<21		60	21	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Bromochloromethane	<26		60	26	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Bromodichloromethane	<22		60	22	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Bromoform	<29		60	29	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Bromomethane	<48		180	48	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Carbon tetrachloride	<23		60	23	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Chlorobenzene	<23		60	23	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Chloroethane	<30		60	30	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50

Client Sample ID: SB2 0-2.5
Lab Sample ID: 500-172312-10

Date Collected: 10/23/19 14:30
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<22		120	22	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Chloromethane	<19		60	19	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
cis-1,2-Dichloroethene	<25		60	25	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
cis-1,3-Dichloropropene	<25		60	25	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Dibromochloromethane	<29		60	29	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Dibromomethane	<16		60	16	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Ethylbenzene	<11		15	11	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Hexachlorobutadiene	<27		60	27	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Isopropyl ether	<17		60	17	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Isopropylbenzene	<23		60	23	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Methylene Chloride	<98		300	98	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Naphthalene	<20		60	20	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
n-Butylbenzene	<23		60	23	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
N-Propylbenzene	<25		60	25	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
p-Isopropyltoluene	<22		60	22	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
sec-Butylbenzene	<24		60	24	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Styrene	<23		60	23	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
tert-Butylbenzene	<24		60	24	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Tetrachloroethene	<22		60	22	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Toluene	<8.8		15	8.8	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
trans-1,2-Dichloroethene	<21		60	21	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
trans-1,3-Dichloropropene	<22		60	22	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Trichloroethene	<9.9		30	9.9	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Trichlorofluoromethane	<26		60	26	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Vinyl chloride	<16		60	16	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50
Xylenes, Total	<13		30	13	ug/Kg	☼	10/23/19 14:30	11/04/19 17:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*10/23/19 14:30*	*11/04/19 17:00*	*50*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*10/23/19 14:30*	*11/04/19 17:00*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*10/23/19 14:30*	*11/04/19 17:00*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*10/23/19 14:30*	*11/04/19 17:00*	*50*

Client Sample ID: SB2 2.5-5
Lab Sample ID: 500-172312-11

Date Collected: 10/23/19 14:32
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.1		75	9.1	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
2-Methylnaphthalene	<6.8		75	6.8	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Acenaphthene	<6.7		37	6.7	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Anthracene	<6.2		37	6.2	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Benzo[a]anthracene	<5.0		37	5.0	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Benzo[a]pyrene	**11**	**J**	37	7.2	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Benzo[b]fluoranthene	**13**	**J**	37	8.0	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1

Client Sample ID: SB2 2.5-5

Date Collected: 10/23/19 14:32
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-11

Matrix: Solid
Percent Solids: 87.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<11		37	11	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Chrysene	<10		37	10	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Dibenz(a,h)anthracene	<7.2		37	7.2	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Fluoranthene	**15**	**J**	37	6.9	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Fluorene	<5.2		37	5.2	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Indeno[1,2,3-cd]pyrene	<9.7		37	9.7	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Naphthalene	<5.7		37	5.7	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Phenanthrene	<5.2		37	5.2	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1
Pyrene	**14**	**J**	37	7.4	ug/Kg	☼	10/31/19 17:47	11/01/19 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*43 - 145*	*10/31/19 17:47*	*11/01/19 12:05*	*1*
Nitrobenzene-d5 (Surr)	*54*		*37 - 147*	*10/31/19 17:47*	*11/01/19 12:05*	*1*
Terphenyl-d14 (Surr)	*103*		*42 - 157*	*10/31/19 17:47*	*11/01/19 12:05*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.5**		1.0	0.36	mg/Kg	☼	10/31/19 17:38	11/04/19 13:48	1
Barium	**47**	**B**	1.0	0.12	mg/Kg	☼	10/31/19 17:38	11/02/19 01:28	1
Cadmium	**0.25**	**B**	0.21	0.038	mg/Kg	☼	10/31/19 17:38	11/02/19 01:28	1
Chromium	**11**	**B**	1.0	0.52	mg/Kg	☼	10/31/19 17:38	11/02/19 01:28	1
Lead	**8.4**		0.52	0.24	mg/Kg	☼	10/31/19 17:38	11/04/19 13:48	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	10/31/19 17:38	11/02/19 01:28	1
Silver	**4.6**		0.52	0.13	mg/Kg	☼	10/31/19 17:38	11/04/19 13:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.018	0.0060	mg/Kg	☼	10/30/19 15:05	10/31/19 10:10	1

Client Sample ID: SB3 0-1

Date Collected: 10/23/19 14:40
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-12

Matrix: Solid
Percent Solids: 93.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<87		710	87	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
2-Methylnaphthalene	<65		710	65	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Acenaphthene	<64		350	64	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Acenaphthylene	**2000**		350	47	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Anthracene	**1200**		350	59	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Benzo[a]anthracene	**3800**		350	48	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Benzo[a]pyrene	**4700**		350	69	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Benzo[b]fluoranthene	**6300**		350	77	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Benzo[g,h,i]perylene	**1800**		350	110	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Benzo[k]fluoranthene	**2700**		350	100	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Chrysene	**4300**		350	97	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Dibenz(a,h)anthracene	**450**		350	69	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Fluoranthene	**5400**		350	66	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Fluorene	<50		350	50	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Indeno[1,2,3-cd]pyrene	**1600**		350	92	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Naphthalene	<55		350	55	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10

Client Sample ID: SB3 0-1

Date Collected: 10/23/19 14:40
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-12

Matrix: Solid
Percent Solids: 93.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	**1800**		350	49	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10
Pyrene	**5500**		350	70	ug/Kg	☼	10/31/19 17:47	11/01/19 17:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*43 - 145*	*10/31/19 17:47*	*11/01/19 17:57*	*10*
Nitrobenzene-d5 (Surr)	*47*		*37 - 147*	*10/31/19 17:47*	*11/01/19 17:57*	*10*
Terphenyl-d14 (Surr)	*103*		*42 - 157*	*10/31/19 17:47*	*11/01/19 17:57*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.8**		0.93	0.32	mg/Kg	☼	10/31/19 17:38	11/04/19 13:52	1
Barium	**9.9**	**B**	0.93	0.11	mg/Kg	☼	10/31/19 17:38	11/02/19 01:40	1
Cadmium	**0.078**	**J B**	0.19	0.033	mg/Kg	☼	10/31/19 17:38	11/02/19 01:40	1
Chromium	**5.8**	**B**	0.93	0.46	mg/Kg	☼	10/31/19 17:38	11/02/19 01:40	1
Lead	**9.0**		0.47	0.21	mg/Kg	☼	10/31/19 17:38	11/04/19 13:52	1
Selenium	<0.55		0.93	0.55	mg/Kg	☼	10/31/19 17:38	11/02/19 01:40	1
Silver	**0.93**		0.47	0.12	mg/Kg	☼	10/31/19 17:38	11/04/19 13:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0052		0.016	0.0052	mg/Kg	☼	10/30/19 15:05	10/31/19 10:12	1

Client Sample ID: SB3 5-7.5

Date Collected: 10/23/19 14:42
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-13

Matrix: Solid
Percent Solids: 90.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		61	28	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,1,1-Trichloroethane	<23		61	23	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,1,2,2-Tetrachloroethane	<24		61	24	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,1,2-Trichloroethane	<21		61	21	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,1-Dichloroethane	<25		61	25	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,1-Dichloroethene	<24		61	24	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,1-Dichloropropene	<18		61	18	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,2,3-Trichlorobenzene	<28		61	28	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,2,4-Trichlorobenzene	<21		61	21	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,2-Dibromoethane	<24		61	24	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,2-Dichlorobenzene	<20		61	20	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,2-Dichloroethane	<24		61	24	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,2-Dichloropropane	<26		61	26	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,3-Dichlorobenzene	<24		61	24	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,3-Dichloropropane	<22		61	22	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
1,4-Dichlorobenzene	<22		61	22	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
2,2-Dichloropropane	<27		61	27	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
2-Chlorotoluene	<19		61	19	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
4-Chlorotoluene	<21		61	21	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50

Client Sample ID: SB3 5-7.5

Date Collected: 10/23/19 14:42
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-13

Matrix: Solid
Percent Solids: 90.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.9		15	8.9	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Bromobenzene	<22		61	22	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Bromochloromethane	<26		61	26	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Bromodichloromethane	<23		61	23	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Bromoform	<29		61	29	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Bromomethane	<48		180	48	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Carbon tetrachloride	<23		61	23	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Chlorobenzene	<24		61	24	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Chloroethane	<31		61	31	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Chloroform	<23		120	23	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Chloromethane	<19		61	19	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
cis-1,2-Dichloroethene	<25		61	25	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
cis-1,3-Dichloropropene	<25		61	25	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Dibromochloromethane	<30		61	30	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Dibromomethane	<16		61	16	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Ethylbenzene	<11		15	11	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Hexachlorobutadiene	<27		61	27	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Isopropyl ether	<17		61	17	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Isopropylbenzene	<23		61	23	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Methylene Chloride	<99		300	99	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Naphthalene	<20		61	20	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
n-Butylbenzene	<24		61	24	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
N-Propylbenzene	<25		61	25	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
p-Isopropyltoluene	<22		61	22	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
sec-Butylbenzene	<24		61	24	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Styrene	<24		61	24	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
tert-Butylbenzene	<24		61	24	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Tetrachloroethene	<23		61	23	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Toluene	**29**		15	9.0	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
trans-1,2-Dichloroethene	<21		61	21	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
trans-1,3-Dichloropropene	<22		61	22	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Trichloroethene	<10		30	10	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Trichlorofluoromethane	<26		61	26	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Vinyl chloride	<16		61	16	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50
Xylenes, Total	<13		30	13	ug/Kg	☼	10/23/19 14:42	11/04/19 17:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*10/23/19 14:42*	*11/04/19 17:26*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*10/23/19 14:42*	*11/04/19 17:26*	*50*
Dibromofluoromethane	*101*		*75 - 120*	*10/23/19 14:42*	*11/04/19 17:26*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*10/23/19 14:42*	*11/04/19 17:26*	*50*

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: SB4 0-2.5
Date Collected: 10/23/19 14:50
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-14
Matrix: Solid
Percent Solids: 96.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,1-Dichloroethane	<21		50	21	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,1-Dichloroethene	<20		50	20	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,1-Dichloropropene	<15		50	15	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,2-Dibromoethane	<19		50	19	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,2-Dichloroethane	<20		50	20	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,2-Dichloropropane	<22		50	22	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
4-Chlorotoluene	<18		50	18	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Benzene	<7.4		13	7.4	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Bromobenzene	<18		50	18	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Bromochloromethane	<22		50	22	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Bromodichloromethane	<19		50	19	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Bromoform	<24		50	24	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Bromomethane	<40		150	40	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Carbon tetrachloride	<19		50	19	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Chlorobenzene	<19		50	19	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Chloroethane	<25		50	25	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Chloroform	<19		100	19	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Chloromethane	<16		50	16	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
cis-1,2-Dichloroethene	<21		50	21	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Dibromochloromethane	<25		50	25	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Dibromomethane	<14		50	14	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Dichlorodifluoromethane	<34		150	34	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Ethylbenzene	<9.2		13	9.2	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Hexachlorobutadiene	<23		50	23	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Isopropyl ether	<14		50	14	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Isopropylbenzene	<19		50	19	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Methyl tert-butyl ether	<20		50	20	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Methylene Chloride	<82		250	82	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Naphthalene	**61**		50	17	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
n-Butylbenzene	<20		50	20	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50

Client Sample ID: SB4 0-2.5

Date Collected: 10/23/19 14:50
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-14

Matrix: Solid
Percent Solids: 96.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Styrene	<19		50	19	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Tetrachloroethene	<19		50	19	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Toluene	**42**		13	7.4	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Trichloroethene	<8.3		25	8.3	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Trichlorofluoromethane	<22		50	22	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Vinyl chloride	<13		50	13	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50
Xylenes, Total	<11		25	11	ug/Kg	☼	10/23/19 14:50	11/04/19 17:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*	*10/23/19 14:50*	*11/04/19 17:52*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*10/23/19 14:50*	*11/04/19 17:52*	*50*
Dibromofluoromethane	*100*		*75 - 120*	*10/23/19 14:50*	*11/04/19 17:52*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*10/23/19 14:50*	*11/04/19 17:52*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<83		690	83	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
2-Methylnaphthalene	<63		690	63	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Acenaphthene	<61		340	61	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Acenaphthylene	**250**	**J**	340	45	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Anthracene	**250**	**J**	340	57	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Benzo[a]anthracene	<46		340	46	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Benzo[a]pyrene	**1500**		340	66	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Benzo[b]fluoranthene	**1500**		340	74	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Benzo[g,h,i]perylene	**690**		340	110	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Benzo[k]fluoranthene	**1300**		340	100	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Chrysene	**1500**		340	93	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Dibenz(a,h)anthracene	<66		340	66	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Fluoranthene	**1900**		340	63	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Fluorene	**110**	**J**	340	48	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Indeno[1,2,3-cd]pyrene	**430**		340	89	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Naphthalene	<53		340	53	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Phenanthrene	**890**		340	48	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10
Pyrene	**5600**		340	68	ug/Kg	☼	10/31/19 17:47	11/01/19 18:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*43 - 145*	*10/31/19 17:47*	*11/01/19 18:23*	*10*
Nitrobenzene-d5 (Surr)	*43*		*37 - 147*	*10/31/19 17:47*	*11/01/19 18:23*	*10*
Terphenyl-d14 (Surr)	*111*		*42 - 157*	*10/31/19 17:47*	*11/01/19 18:23*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.1**		0.90	0.31	mg/Kg	☼	10/31/19 17:38	11/04/19 13:56	1
Barium	**8.8**	**B**	0.90	0.10	mg/Kg	☼	10/31/19 17:38	11/02/19 01:44	1
Cadmium	**0.060**	**J B**	0.18	0.033	mg/Kg	☼	10/31/19 17:38	11/02/19 01:44	1
Chromium	**4.3**	**B**	0.90	0.45	mg/Kg	☼	10/31/19 17:38	11/02/19 01:44	1

Client Sample ID: SB4 0-2.5 — Lab Sample ID: 500-172312-14

Date Collected: 10/23/19 14:50 — **Matrix: Solid**
Date Received: 10/24/19 09:05 — **Percent Solids: 96.9**

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.9**		0.45	0.21	mg/Kg	☼	10/31/19 17:38	11/04/19 13:56	1
Selenium	<0.53		0.90	0.53	mg/Kg	☼	10/31/19 17:38	11/02/19 01:44	1
Silver	**0.74**		0.45	0.12	mg/Kg	☼	10/31/19 17:38	11/04/19 13:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0050		0.015	0.0050	mg/Kg	☼	10/30/19 15:05	10/31/19 10:14	1

Client Sample ID: SB5 0-2.5 — Lab Sample ID: 500-172312-15

Date Collected: 10/23/19 15:00 — **Matrix: Solid**
Date Received: 10/24/19 09:05 — **Percent Solids: 94.0**

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<26		57	26	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,1,1-Trichloroethane	<21		57	21	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,1,2,2-Tetrachloroethane	<23		57	23	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,1,2-Trichloroethane	<20		57	20	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,1-Dichloroethane	<23		57	23	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,1-Dichloroethene	<22		57	22	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,1-Dichloropropene	<17		57	17	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,2,3-Trichlorobenzene	<26		57	26	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,2,3-Trichloropropane	<23		110	23	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,2,4-Trichlorobenzene	<19		57	19	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,2,4-Trimethylbenzene	<20		57	20	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,2-Dibromo-3-Chloropropane	<110		280	110	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,2-Dibromoethane	<22		57	22	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,2-Dichlorobenzene	<19		57	19	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,2-Dichloroethane	<22		57	22	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,2-Dichloropropane	<24		57	24	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,3,5-Trimethylbenzene	<21		57	21	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,3-Dichlorobenzene	<23		57	23	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,3-Dichloropropane	<20		57	20	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
1,4-Dichlorobenzene	<21		57	21	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
2,2-Dichloropropane	<25		57	25	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
2-Chlorotoluene	<18		57	18	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
4-Chlorotoluene	<20		57	20	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Benzene	<8.3		14	8.3	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Bromobenzene	<20		57	20	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Bromochloromethane	<24		57	24	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Bromodichloromethane	<21		57	21	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Bromoform	<27		57	27	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Bromomethane	<45		170	45	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Carbon tetrachloride	<22		57	22	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Chlorobenzene	<22		57	22	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Chloroethane	<28		57	28	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Chloroform	<21		110	21	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Chloromethane	<18		57	18	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
cis-1,2-Dichloroethene	<23		57	23	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
cis-1,3-Dichloropropene	<24		57	24	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50

Client Sample ID: SB5 0-2.5

Date Collected: 10/23/19 15:00
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-15

Matrix: Solid
Percent Solids: 94.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<28		57	28	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Dibromomethane	<15		57	15	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Dichlorodifluoromethane	<38		170	38	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Ethylbenzene	<10		14	10	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Hexachlorobutadiene	<25		57	25	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Isopropyl ether	<16		57	16	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Isopropylbenzene	<22		57	22	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Methyl tert-butyl ether	<22		57	22	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Methylene Chloride	<92		280	92	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Naphthalene	**54**	**J**	57	19	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
n-Butylbenzene	<22		57	22	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
N-Propylbenzene	<23		57	23	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
p-Isopropyltoluene	<20		57	20	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
sec-Butylbenzene	<23		57	23	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Styrene	<22		57	22	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
tert-Butylbenzene	<23		57	23	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Tetrachloroethene	<21		57	21	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Toluene	**86**		14	8.3	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
trans-1,2-Dichloroethene	<20		57	20	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
trans-1,3-Dichloropropene	<20		57	20	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Trichloroethene	<9.3		28	9.3	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Trichlorofluoromethane	<24		57	24	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Vinyl chloride	<15		57	15	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50
Xylenes, Total	<12		28	12	ug/Kg	☼	10/23/19 15:00	11/04/19 18:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*	*10/23/19 15:00*	*11/04/19 18:17*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*10/23/19 15:00*	*11/04/19 18:17*	*50*
Dibromofluoromethane	*99*		*75 - 120*	*10/23/19 15:00*	*11/04/19 18:17*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*10/23/19 15:00*	*11/04/19 18:17*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<43		360	43	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
2-Methylnaphthalene	<32		360	32	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Acenaphthene	<32		170	32	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Acenaphthylene	**200**		170	23	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Anthracene	**130**	**J**	170	29	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Benzo[a]anthracene	<24		170	24	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Benzo[a]pyrene	**530**		170	34	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Benzo[b]fluoranthene	**620**		170	38	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Benzo[g,h,i]perylene	<57		170	57	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Benzo[k]fluoranthene	**290**		170	52	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Chrysene	**560**		170	48	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Dibenz(a,h)anthracene	<34		170	34	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Fluoranthene	**570**		170	33	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Fluorene	**66**	**J**	170	25	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Indeno[1,2,3-cd]pyrene	**200**		170	46	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Naphthalene	<27		170	27	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5
Phenanthrene	**200**		170	25	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5

Client Sample ID: SB5 0-2.5
Lab Sample ID: 500-172312-15
Date Collected: 10/23/19 15:00
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 94.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**680**		170	35	ug/Kg	☼	10/31/19 17:47	11/05/19 14:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*43 - 145*	*10/31/19 17:47*	*11/05/19 14:00*	*5*
Nitrobenzene-d5 (Surr)	*44*		*37 - 147*	*10/31/19 17:47*	*11/05/19 14:00*	*5*
Terphenyl-d14 (Surr)	*93*		*42 - 157*	*10/31/19 17:47*	*11/05/19 14:00*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.5**		0.94	0.32	mg/Kg	☼	10/31/19 17:38	11/04/19 14:08	1
Barium	**15**	**B**	0.94	0.11	mg/Kg	☼	10/31/19 17:38	11/02/19 01:48	1
Cadmium	**0.088**	**J B**	0.19	0.034	mg/Kg	☼	10/31/19 17:38	11/02/19 01:48	1
Chromium	**6.7**	**B**	0.94	0.46	mg/Kg	☼	10/31/19 17:38	11/02/19 01:48	1
Lead	**5.6**		0.47	0.22	mg/Kg	☼	10/31/19 17:38	11/04/19 14:08	1
Selenium	<0.55		0.94	0.55	mg/Kg	☼	10/31/19 17:38	11/02/19 01:48	1
Silver	**1.3**		0.47	0.12	mg/Kg	☼	10/31/19 17:38	11/04/19 14:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0055		0.017	0.0055	mg/Kg	☼	10/30/19 15:05	10/31/19 10:16	1

Client Sample ID: SB6 0-2.5
Lab Sample ID: 500-172312-16
Date Collected: 10/23/19 15:05
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,1,1-Trichloroethane	<25		67	25	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,1,2-Trichloroethane	<24		67	24	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,1-Dichloroethane	<27		67	27	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,1-Dichloroethene	<26		67	26	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,1-Dichloropropene	<20		67	20	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,2,3-Trichloropropane	<28		130	28	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,2-Dibromoethane	<26		67	26	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,2-Dichloroethane	<26		67	26	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,2-Dichloropropane	<29		67	29	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,3,5-Trimethylbenzene	<25		67	25	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,3-Dichloropropane	<24		67	24	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
1,4-Dichlorobenzene	<24		67	24	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
2,2-Dichloropropane	<30		67	30	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
2-Chlorotoluene	<21		67	21	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
4-Chlorotoluene	<23		67	23	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Benzene	<9.8		17	9.8	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50

Client Sample ID: SB6 0-2.5 **Lab Sample ID: 500-172312-16**
Date Collected: 10/23/19 15:05 **Matrix: Solid**
Date Received: 10/24/19 09:05 **Percent Solids: 86.3**

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<24		67	24	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Bromochloromethane	<29		67	29	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Bromodichloromethane	<25		67	25	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Bromoform	<32		67	32	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Bromomethane	<53		200	53	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Carbon tetrachloride	<26		67	26	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Chlorobenzene	<26		67	26	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Chloroethane	<34		67	34	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Chloroform	<25		130	25	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Chloromethane	<21		67	21	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
cis-1,2-Dichloroethene	<27		67	27	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Dibromochloromethane	<33		67	33	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Dibromomethane	<18		67	18	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Ethylbenzene	<12		17	12	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Hexachlorobutadiene	<30		67	30	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Isopropyl ether	<18		67	18	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Isopropylbenzene	<26		67	26	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Methylene Chloride	<110		330	110	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Naphthalene	<22		67	22	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
n-Butylbenzene	<26		67	26	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
N-Propylbenzene	<28		67	28	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
p-Isopropyltoluene	<24		67	24	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
sec-Butylbenzene	<27		67	27	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Styrene	<26		67	26	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
tert-Butylbenzene	<27		67	27	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Tetrachloroethene	**380**		67	25	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Toluene	**43**		17	9.8	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
trans-1,2-Dichloroethene	<23		67	23	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Trichloroethene	**17**	**J**	33	11	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Trichlorofluoromethane	<29		67	29	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Vinyl chloride	<18		67	18	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50
Xylenes, Total	<15		33	15	ug/Kg	☼	10/23/19 15:05	11/04/19 18:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*10/23/19 15:05*	*11/04/19 18:43*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*10/23/19 15:05*	*11/04/19 18:43*	*50*
Dibromofluoromethane	*99*		*75 - 120*	*10/23/19 15:05*	*11/04/19 18:43*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*10/23/19 15:05*	*11/04/19 18:43*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<46		380	46	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
2-Methylnaphthalene	<35		380	35	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Acenaphthene	<34		190	34	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Acenaphthylene	<25		190	25	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Anthracene	<32		190	32	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5

Client Sample ID: SB6 0-2.5
Lab Sample ID: 500-172312-16
Date Collected: 10/23/19 15:05
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	54	J	190	26	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Benzo[a]pyrene	110	J	190	37	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Benzo[b]fluoranthene	120	J	190	41	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Benzo[g,h,i]perylene	150	J	190	61	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Benzo[k]fluoranthene	<56		190	56	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Chrysene	150	J	190	52	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Dibenz(a,h)anthracene	<37		190	37	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Fluoranthene	140	J	190	35	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Fluorene	<27		190	27	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Indeno[1,2,3-cd]pyrene	<49		190	49	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Naphthalene	<29		190	29	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Phenanthrene	79	J	190	27	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5
Pyrene	150	J	190	38	ug/Kg	☼	10/31/19 17:47	11/04/19 13:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*43 - 145*	*10/31/19 17:47*	*11/04/19 13:53*	*5*
Nitrobenzene-d5 (Surr)	*50*		*37 - 147*	*10/31/19 17:47*	*11/04/19 13:53*	*5*
Terphenyl-d14 (Surr)	*104*		*42 - 157*	*10/31/19 17:47*	*11/04/19 13:53*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		1.0	0.34	mg/Kg	☼	10/31/19 17:38	11/04/19 14:12	1
Barium	78	B	1.0	0.11	mg/Kg	☼	10/31/19 17:38	11/02/19 01:53	1
Cadmium	0.30	B	0.20	0.036	mg/Kg	☼	10/31/19 17:38	11/02/19 01:53	1
Chromium	16	B	1.0	0.49	mg/Kg	☼	10/31/19 17:38	11/02/19 01:53	1
Lead	26	^	0.50	0.23	mg/Kg	☼	10/31/19 17:38	11/02/19 01:53	1
Selenium	<0.59		1.0	0.59	mg/Kg	☼	10/31/19 17:38	11/02/19 01:53	1
Silver	4.6		0.50	0.13	mg/Kg	☼	10/31/19 17:38	11/04/19 14:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0059	mg/Kg	☼	10/30/19 15:05	10/31/19 10:19	1

Client Sample ID: TW1
Lab Sample ID: 500-172312-17
Date Collected: 10/23/19 12:55
Matrix: Water
Date Received: 10/24/19 09:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/19 19:45	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/19 19:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/19 19:45	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/19 19:45	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/19 19:45	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/19 19:45	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/19 19:45	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/19 19:45	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/19 19:45	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/19 19:45	1
1,2,4-Trimethylbenzene	0.63	J B	1.0	0.36	ug/L			11/04/19 19:45	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/19 19:45	1

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: TW1
Date Collected: 10/23/19 12:55
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/19 19:45	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/19 19:45	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/19 19:45	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/19 19:45	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/04/19 19:45	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/19 19:45	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/19 19:45	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/19 19:45	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/19 19:45	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/19 19:45	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/19 19:45	1
Benzene	<0.15		0.50	0.15	ug/L			11/04/19 19:45	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/19 19:45	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/19 19:45	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/19 19:45	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/19 19:45	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/19 19:45	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/19 19:45	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/19 19:45	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/19 19:45	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/19 19:45	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/19 19:45	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/19 19:45	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/19 19:45	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/19 19:45	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/19 19:45	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/19 19:45	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/19 19:45	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/19 19:45	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/19 19:45	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/19 19:45	1
Methyl tert-butyl ether	<0.39	*	1.0	0.39	ug/L			11/04/19 19:45	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/04/19 19:45	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/19 19:45	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/04/19 19:45	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/19 19:45	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/19 19:45	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/19 19:45	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/19 19:45	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/19 19:45	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/19 19:45	1
Toluene	**0.79**		0.50	0.15	ug/L			11/04/19 19:45	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/19 19:45	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/19 19:45	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/04/19 19:45	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/19 19:45	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/19 19:45	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/19 19:45	1

Client Sample ID: TW1

Date Collected: 10/23/19 12:55
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-17

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*114*		*75 - 126*		*11/04/19 19:45*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*11/04/19 19:45*	*1*
Dibromofluoromethane	*112*		*75 - 120*		*11/04/19 19:45*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*11/04/19 19:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<1.3		8.3	1.3	ug/L		10/30/19 08:16	10/31/19 21:50	5
2-Methylnaphthalene	<0.27		8.3	0.27	ug/L		10/30/19 08:16	10/31/19 21:50	5
Acenaphthene	<1.3		4.2	1.3	ug/L		10/30/19 08:16	10/31/19 21:50	5
Acenaphthylene	<1.1		4.2	1.1	ug/L		10/30/19 08:16	10/31/19 21:50	5
Anthracene	<1.4		4.2	1.4	ug/L		10/30/19 08:16	10/31/19 21:50	5
Benzo[a]anthracene	**3.2**		0.83	0.24	ug/L		10/30/19 08:16	10/31/19 21:50	5
Benzo[a]pyrene	**3.4**		0.83	0.41	ug/L		10/30/19 08:16	10/31/19 21:50	5
Benzo[b]fluoranthene	**3.8**		0.83	0.34	ug/L		10/30/19 08:16	10/31/19 21:50	5
Benzo[g,h,i]perylene	**2.6**	**J**	4.2	1.6	ug/L		10/30/19 08:16	10/31/19 21:50	5
Benzo[k]fluoranthene	**2.2**		0.83	0.27	ug/L		10/30/19 08:16	10/31/19 21:50	5
Chrysene	**3.1**		0.83	0.28	ug/L		10/30/19 08:16	10/31/19 21:50	5
Dibenz(a,h)anthracene	<0.21		1.2	0.21	ug/L		10/30/19 08:16	10/31/19 21:50	5
Fluoranthene	**5.0**		4.2	1.9	ug/L		10/30/19 08:16	10/31/19 21:50	5
Fluorene	<1.0		4.2	1.0	ug/L		10/30/19 08:16	10/31/19 21:50	5
Indeno[1,2,3-cd]pyrene	**2.6**		0.83	0.31	ug/L		10/30/19 08:16	10/31/19 21:50	5
Naphthalene	<1.3		4.2	1.3	ug/L		10/30/19 08:16	10/31/19 21:50	5
Phenanthrene	**2.6**	**J**	4.2	1.3	ug/L		10/30/19 08:16	10/31/19 21:50	5
Pyrene	**4.5**		4.2	1.8	ug/L		10/30/19 08:16	10/31/19 21:50	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*60*		*34 - 110*	*10/30/19 08:16*	*10/31/19 21:50*	*5*
Nitrobenzene-d5 (Surr)	*40*		*36 - 120*	*10/30/19 08:16*	*10/31/19 21:50*	*5*
Terphenyl-d14 (Surr)	*65*		*40 - 145*	*10/30/19 08:16*	*10/31/19 21:50*	*5*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0019**		0.0010	0.00023	mg/L		10/31/19 16:48	11/01/19 15:10	1
Barium	**0.051**		0.0025	0.00073	mg/L		10/31/19 16:48	11/01/19 15:10	1
Cadmium	<0.00017		0.00050	0.00017	mg/L		10/31/19 16:48	11/01/19 15:10	1
Chromium	**0.012**		0.0050	0.0011	mg/L		10/31/19 16:48	11/01/19 15:10	1
Lead	**0.0023**		0.00050	0.00019	mg/L		10/31/19 16:48	11/01/19 15:10	1
Selenium	**0.0013**	**J**	0.0025	0.00098	mg/L		10/31/19 16:48	11/01/19 15:10	1
Silver	<0.00012		0.00050	0.00012	mg/L		10/31/19 16:48	11/01/19 15:10	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000098		0.00020	0.000098	mg/L		10/29/19 09:55	10/30/19 08:36	1

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: TW2
Date Collected: 10/23/19 13:15
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-18
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/19 20:13	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/19 20:13	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/19 20:13	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/19 20:13	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/19 20:13	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/19 20:13	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/19 20:13	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/19 20:13	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/19 20:13	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/19 20:13	1
1,2,4-Trimethylbenzene	**0.63**	**J B**	1.0	0.36	ug/L			11/04/19 20:13	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/19 20:13	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/19 20:13	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/19 20:13	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/19 20:13	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/19 20:13	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/04/19 20:13	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/19 20:13	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/19 20:13	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/19 20:13	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/19 20:13	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/19 20:13	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/19 20:13	1
Benzene	<0.15		0.50	0.15	ug/L			11/04/19 20:13	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/19 20:13	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/19 20:13	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/19 20:13	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/19 20:13	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/19 20:13	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/19 20:13	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/19 20:13	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/19 20:13	1
Chloroform	**0.41**	**J**	2.0	0.37	ug/L			11/04/19 20:13	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/19 20:13	1
cis-1,2-Dichloroethene	**0.74**	**J**	1.0	0.41	ug/L			11/04/19 20:13	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/19 20:13	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/19 20:13	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/19 20:13	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/19 20:13	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/19 20:13	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/19 20:13	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/19 20:13	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/19 20:13	1
Methyl tert-butyl ether	<0.39	*	1.0	0.39	ug/L			11/04/19 20:13	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/04/19 20:13	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/19 20:13	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/04/19 20:13	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/19 20:13	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/19 20:13	1

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: TW2

Date Collected: 10/23/19 13:15
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-18

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/19 20:13	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/19 20:13	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/19 20:13	1
Tetrachloroethene	**4.2**		1.0	0.37	ug/L			11/04/19 20:13	1
Toluene	**0.26**	**J**	0.50	0.15	ug/L			11/04/19 20:13	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/19 20:13	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/19 20:13	1
Trichloroethene	**0.41**	**J**	0.50	0.16	ug/L			11/04/19 20:13	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/19 20:13	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/19 20:13	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/19 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*75 - 126*		*11/04/19 20:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*11/04/19 20:13*	*1*
Dibromofluoromethane	*112*		*75 - 120*		*11/04/19 20:13*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*11/04/19 20:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.26		1.7	0.26	ug/L		10/30/19 08:16	10/30/19 23:11	1
2-Methylnaphthalene	<0.056		1.7	0.056	ug/L		10/30/19 08:16	10/30/19 23:11	1
Acenaphthene	<0.27		0.86	0.27	ug/L		10/30/19 08:16	10/30/19 23:11	1
Acenaphthylene	<0.23		0.86	0.23	ug/L		10/30/19 08:16	10/30/19 23:11	1
Anthracene	<0.29		0.86	0.29	ug/L		10/30/19 08:16	10/30/19 23:11	1
Benzo[a]anthracene	<0.049		0.17	0.049	ug/L		10/30/19 08:16	10/30/19 23:11	1
Benzo[a]pyrene	<0.085		0.17	0.085	ug/L		10/30/19 08:16	10/30/19 23:11	1
Benzo[b]fluoranthene	<0.069		0.17	0.069	ug/L		10/30/19 08:16	10/30/19 23:11	1
Benzo[g,h,i]perylene	<0.32		0.86	0.32	ug/L		10/30/19 08:16	10/30/19 23:11	1
Benzo[k]fluoranthene	<0.055		0.17	0.055	ug/L		10/30/19 08:16	10/30/19 23:11	1
Chrysene	<0.059		0.17	0.059	ug/L		10/30/19 08:16	10/30/19 23:11	1
Dibenz(a,h)anthracene	<0.044		0.26	0.044	ug/L		10/30/19 08:16	10/30/19 23:11	1
Fluoranthene	<0.39		0.86	0.39	ug/L		10/30/19 08:16	10/30/19 23:11	1
Fluorene	<0.21		0.86	0.21	ug/L		10/30/19 08:16	10/30/19 23:11	1
Indeno[1,2,3-cd]pyrene	<0.064		0.17	0.064	ug/L		10/30/19 08:16	10/30/19 23:11	1
Naphthalene	<0.27		0.86	0.27	ug/L		10/30/19 08:16	10/30/19 23:11	1
Phenanthrene	<0.26		0.86	0.26	ug/L		10/30/19 08:16	10/30/19 23:11	1
Pyrene	<0.37		0.86	0.37	ug/L		10/30/19 08:16	10/30/19 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*34 - 110*	*10/30/19 08:16*	*10/30/19 23:11*	*1*
Nitrobenzene-d5 (Surr)	*55*		*36 - 120*	*10/30/19 08:16*	*10/30/19 23:11*	*1*
Terphenyl-d14 (Surr)	*82*		*40 - 145*	*10/30/19 08:16*	*10/30/19 23:11*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0039**		0.0010	0.00023	mg/L		10/31/19 16:48	11/01/19 15:14	1
Barium	**0.096**		0.0025	0.00073	mg/L		10/31/19 16:48	11/01/19 15:14	1
Cadmium	<0.00017		0.00050	0.00017	mg/L		10/31/19 16:48	11/01/19 15:14	1
Chromium	**0.0080**		0.0050	0.0011	mg/L		10/31/19 16:48	11/01/19 15:14	1

Client Sample ID: TW2

Lab Sample ID: 500-172312-18
Date Collected: 10/23/19 13:15
Matrix: Water
Date Received: 10/24/19 09:05

Method: 6020A - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.0030**		0.00050	0.00019	mg/L		10/31/19 16:48	11/01/19 15:14	1
Selenium	**0.0017**	**J**	0.0025	0.00098	mg/L		10/31/19 16:48	11/01/19 15:14	1
Silver	<0.00012		0.00050	0.00012	mg/L		10/31/19 16:48	11/01/19 15:14	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000098		0.00020	0.000098	mg/L		10/29/19 09:55	10/30/19 08:38	1

Client Sample ID: TW3

Lab Sample ID: 500-172312-19
Date Collected: 10/23/19 13:35
Matrix: Water
Date Received: 10/24/19 09:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/19 20:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/19 20:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/19 20:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/19 20:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/19 20:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/19 20:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/19 20:41	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/19 20:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/19 20:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/19 20:41	1
1,2,4-Trimethylbenzene	**0.68**	**J B**	1.0	0.36	ug/L			11/04/19 20:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/19 20:41	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/19 20:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/19 20:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/19 20:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/19 20:41	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/04/19 20:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/19 20:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/19 20:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/19 20:41	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/19 20:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/19 20:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/19 20:41	1
Benzene	<0.15		0.50	0.15	ug/L			11/04/19 20:41	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/19 20:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/19 20:41	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/19 20:41	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/19 20:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/19 20:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/19 20:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/19 20:41	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/19 20:41	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/19 20:41	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/19 20:41	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/19 20:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/19 20:41	1

Client Sample ID: TW3

Date Collected: 10/23/19 13:35
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-19

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/19 20:41	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/19 20:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/19 20:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/19 20:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/19 20:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/19 20:41	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/19 20:41	1
Methyl tert-butyl ether	<0.39	*	1.0	0.39	ug/L			11/04/19 20:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/04/19 20:41	1
Naphthalene	**0.63**	**J B**	1.0	0.34	ug/L			11/04/19 20:41	1
n-Butylbenzene	**0.50**	**J B**	1.0	0.39	ug/L			11/04/19 20:41	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/19 20:41	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/19 20:41	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/19 20:41	1
Styrene	**0.46**	**J B**	1.0	0.39	ug/L			11/04/19 20:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/19 20:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/19 20:41	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/19 20:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/19 20:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/19 20:41	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/04/19 20:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/19 20:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/19 20:41	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/19 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*75 - 126*		*11/04/19 20:41*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*11/04/19 20:41*	*1*
Dibromofluoromethane	*111*		*75 - 120*		*11/04/19 20:41*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*11/04/19 20:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.6	0.25	ug/L		10/30/19 08:16	10/30/19 23:35	1
2-Methylnaphthalene	<0.053		1.6	0.053	ug/L		10/30/19 08:16	10/30/19 23:35	1
Acenaphthene	<0.25		0.82	0.25	ug/L		10/30/19 08:16	10/30/19 23:35	1
Acenaphthylene	<0.22		0.82	0.22	ug/L		10/30/19 08:16	10/30/19 23:35	1
Anthracene	<0.27		0.82	0.27	ug/L		10/30/19 08:16	10/30/19 23:35	1
Benzo[a]anthracene	<0.046		0.16	0.046	ug/L		10/30/19 08:16	10/30/19 23:35	1
Benzo[a]pyrene	<0.081		0.16	0.081	ug/L		10/30/19 08:16	10/30/19 23:35	1
Benzo[b]fluoranthene	<0.066		0.16	0.066	ug/L		10/30/19 08:16	10/30/19 23:35	1
Benzo[g,h,i]perylene	<0.31		0.82	0.31	ug/L		10/30/19 08:16	10/30/19 23:35	1
Benzo[k]fluoranthene	<0.052		0.16	0.052	ug/L		10/30/19 08:16	10/30/19 23:35	1
Chrysene	<0.056		0.16	0.056	ug/L		10/30/19 08:16	10/30/19 23:35	1
Dibenz(a,h)anthracene	<0.042		0.25	0.042	ug/L		10/30/19 08:16	10/30/19 23:35	1
Fluoranthene	<0.37		0.82	0.37	ug/L		10/30/19 08:16	10/30/19 23:35	1
Fluorene	<0.20		0.82	0.20	ug/L		10/30/19 08:16	10/30/19 23:35	1
Indeno[1,2,3-cd]pyrene	<0.061		0.16	0.061	ug/L		10/30/19 08:16	10/30/19 23:35	1
Naphthalene	<0.25		0.82	0.25	ug/L		10/30/19 08:16	10/30/19 23:35	1
Phenanthrene	<0.25		0.82	0.25	ug/L		10/30/19 08:16	10/30/19 23:35	1

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: TW3

Lab Sample ID: 500-172312-19

Date Collected: 10/23/19 13:35
Matrix: Water
Date Received: 10/24/19 09:05

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.35		0.82	0.35	ug/L		10/30/19 08:16	10/30/19 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*34 - 110*	*10/30/19 08:16*	*10/30/19 23:35*	*1*
Nitrobenzene-d5 (Surr)	*46*		*36 - 120*	*10/30/19 08:16*	*10/30/19 23:35*	*1*
Terphenyl-d14 (Surr)	*80*		*40 - 145*	*10/30/19 08:16*	*10/30/19 23:35*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0013**		0.0010	0.00023	mg/L		10/31/19 16:48	11/01/19 15:18	1
Barium	**0.17**		0.0025	0.00073	mg/L		10/31/19 16:48	11/01/19 15:18	1
Cadmium	<0.00017		0.00050	0.00017	mg/L		10/31/19 16:48	11/01/19 15:18	1
Chromium	<0.0011		0.0050	0.0011	mg/L		10/31/19 16:48	11/01/19 15:18	1
Lead	**0.0013**		0.00050	0.00019	mg/L		10/31/19 16:48	11/01/19 15:18	1
Selenium	**0.0018**	**J**	0.0025	0.00098	mg/L		10/31/19 16:48	11/01/19 15:18	1
Silver	<0.00012		0.00050	0.00012	mg/L		10/31/19 16:48	11/01/19 15:18	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000098		0.00020	0.000098	mg/L		10/29/19 09:55	10/30/19 08:40	1

Client Sample ID: DUP3

Lab Sample ID: 500-172312-20

Date Collected: 10/23/19 13:37
Matrix: Water
Date Received: 10/24/19 09:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/19 21:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/19 21:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/19 21:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/19 21:09	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/19 21:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/19 21:09	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/19 21:09	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/19 21:09	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/19 21:09	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/19 21:09	1
1,2,4-Trimethylbenzene	**0.68**	**J B**	1.0	0.36	ug/L			11/04/19 21:09	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/19 21:09	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/19 21:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/19 21:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/19 21:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/19 21:09	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/04/19 21:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/19 21:09	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/19 21:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/19 21:09	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/19 21:09	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/19 21:09	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/19 21:09	1
Benzene	<0.15		0.50	0.15	ug/L			11/04/19 21:09	1

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: DUP3
Date Collected: 10/23/19 13:37
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-20
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/19 21:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/19 21:09	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/19 21:09	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/19 21:09	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/19 21:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/19 21:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/19 21:09	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/19 21:09	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/19 21:09	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/19 21:09	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/19 21:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/19 21:09	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/19 21:09	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/19 21:09	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/19 21:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/19 21:09	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/19 21:09	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/19 21:09	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/19 21:09	1
Methyl tert-butyl ether	<0.39	*	1.0	0.39	ug/L			11/04/19 21:09	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/04/19 21:09	1
Naphthalene	**0.75**	**J B**	1.0	0.34	ug/L			11/04/19 21:09	1
n-Butylbenzene	**0.59**	**J B**	1.0	0.39	ug/L			11/04/19 21:09	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/19 21:09	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/19 21:09	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/19 21:09	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/19 21:09	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/19 21:09	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/19 21:09	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/19 21:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/19 21:09	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/19 21:09	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/04/19 21:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/19 21:09	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/19 21:09	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/19 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*		*11/04/19 21:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*11/04/19 21:09*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*11/04/19 21:09*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*11/04/19 21:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.7	0.25	ug/L		10/30/19 08:16	10/30/19 23:59	1
2-Methylnaphthalene	<0.054		1.7	0.054	ug/L		10/30/19 08:16	10/30/19 23:59	1
Acenaphthene	<0.26		0.83	0.26	ug/L		10/30/19 08:16	10/30/19 23:59	1
Acenaphthylene	<0.22		0.83	0.22	ug/L		10/30/19 08:16	10/30/19 23:59	1
Anthracene	<0.28		0.83	0.28	ug/L		10/30/19 08:16	10/30/19 23:59	1

Client Sample ID: DUP3

Lab Sample ID: 500-172312-20
Date Collected: 10/23/19 13:37
Matrix: Water
Date Received: 10/24/19 09:05

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.047		0.17	0.047	ug/L		10/30/19 08:16	10/30/19 23:59	1
Benzo[a]pyrene	<0.082		0.17	0.082	ug/L		10/30/19 08:16	10/30/19 23:59	1
Benzo[b]fluoranthene	<0.067		0.17	0.067	ug/L		10/30/19 08:16	10/30/19 23:59	1
Benzo[g,h,i]perylene	<0.31		0.83	0.31	ug/L		10/30/19 08:16	10/30/19 23:59	1
Benzo[k]fluoranthene	<0.053		0.17	0.053	ug/L		10/30/19 08:16	10/30/19 23:59	1
Chrysene	<0.056		0.17	0.056	ug/L		10/30/19 08:16	10/30/19 23:59	1
Dibenz(a,h)anthracene	<0.042		0.25	0.042	ug/L		10/30/19 08:16	10/30/19 23:59	1
Fluoranthene	<0.38		0.83	0.38	ug/L		10/30/19 08:16	10/30/19 23:59	1
Fluorene	<0.20		0.83	0.20	ug/L		10/30/19 08:16	10/30/19 23:59	1
Indeno[1,2,3-cd]pyrene	<0.062		0.17	0.062	ug/L		10/30/19 08:16	10/30/19 23:59	1
Naphthalene	<0.26		0.83	0.26	ug/L		10/30/19 08:16	10/30/19 23:59	1
Phenanthrene	<0.25		0.83	0.25	ug/L		10/30/19 08:16	10/30/19 23:59	1
Pyrene	<0.35		0.83	0.35	ug/L		10/30/19 08:16	10/30/19 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*34 - 110*	*10/30/19 08:16*	*10/30/19 23:59*	*1*
Nitrobenzene-d5 (Surr)	*50*		*36 - 120*	*10/30/19 08:16*	*10/30/19 23:59*	*1*
Terphenyl-d14 (Surr)	*84*		*40 - 145*	*10/30/19 08:16*	*10/30/19 23:59*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0013**		0.0010	0.00023	mg/L		10/31/19 16:48	11/01/19 15:22	1
Barium	**0.16**		0.0025	0.00073	mg/L		10/31/19 16:48	11/01/19 15:22	1
Cadmium	<0.00017		0.00050	0.00017	mg/L		10/31/19 16:48	11/01/19 15:22	1
Chromium	<0.0011		0.0050	0.0011	mg/L		10/31/19 16:48	11/01/19 15:22	1
Lead	**0.0010**		0.00050	0.00019	mg/L		10/31/19 16:48	11/01/19 15:22	1
Selenium	**0.0020**	**J**	0.0025	0.00098	mg/L		10/31/19 16:48	11/01/19 15:22	1
Silver	<0.00012		0.00050	0.00012	mg/L		10/31/19 16:48	11/01/19 15:22	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000098		0.00020	0.000098	mg/L		10/29/19 09:55	10/30/19 08:41	1

Client Sample ID: Trip Blank (HCl)

Lab Sample ID: 500-172312-21
Date Collected: 10/23/19 00:00
Matrix: Water
Date Received: 10/24/19 09:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/19 21:36	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/19 21:36	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/19 21:36	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/19 21:36	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/19 21:36	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/19 21:36	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/19 21:36	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/19 21:36	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/19 21:36	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/19 21:36	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/04/19 21:36	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/19 21:36	1

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: Trip Blank (HCl)
Date Collected: 10/23/19 00:00
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-21
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/19 21:36	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/19 21:36	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/19 21:36	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/19 21:36	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/04/19 21:36	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/19 21:36	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/19 21:36	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/19 21:36	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/19 21:36	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/19 21:36	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/19 21:36	1
Benzene	<0.15		0.50	0.15	ug/L			11/04/19 21:36	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/19 21:36	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/19 21:36	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/19 21:36	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/19 21:36	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/19 21:36	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/19 21:36	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/19 21:36	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/19 21:36	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/19 21:36	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/19 21:36	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/19 21:36	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/19 21:36	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/19 21:36	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/19 21:36	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/19 21:36	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/19 21:36	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/19 21:36	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/19 21:36	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/19 21:36	1
Methyl tert-butyl ether	<0.39	*	1.0	0.39	ug/L			11/04/19 21:36	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/04/19 21:36	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/04/19 21:36	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/04/19 21:36	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/19 21:36	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/19 21:36	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/19 21:36	1
Styrene	<0.39		1.0	0.39	ug/L			11/04/19 21:36	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/19 21:36	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/19 21:36	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/19 21:36	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/19 21:36	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/19 21:36	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/04/19 21:36	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/19 21:36	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/19 21:36	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/19 21:36	1

Client Sample ID: Trip Blank (HCl)

Lab Sample ID: 500-172312-21
Date Collected: 10/23/19 00:00
Matrix: Water
Date Received: 10/24/19 09:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 126		11/04/19 21:36	1
4-Bromofluorobenzene (Surr)	99		72 - 124		11/04/19 21:36	1
Dibromofluoromethane	111		75 - 120		11/04/19 21:36	1
Toluene-d8 (Surr)	99		75 - 120		11/04/19 21:36	1

Client Sample ID: Trip Blank (MeOH)

Lab Sample ID: 500-172312-22
Date Collected: 10/23/19 00:00
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 100.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,1-Dichloroethane	<21		50	21	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,1-Dichloroethene	<20		50	20	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,1-Dichloropropene	<15		50	15	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,2,3-Trichloropropane	**410**		100	21	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,2-Dibromoethane	<19		50	19	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,2-Dichloroethane	<20		50	20	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,2-Dichloropropane	<21		50	21	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
4-Chlorotoluene	<18		50	18	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Benzene	<7.3		13	7.3	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Bromobenzene	<18		50	18	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Bromochloromethane	<21		50	21	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Bromodichloromethane	<19		50	19	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Bromoform	<24		50	24	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Bromomethane	<40		150	40	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Carbon tetrachloride	<19		50	19	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Chlorobenzene	<19		50	19	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Chloroethane	<25		50	25	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Chloroform	<19		100	19	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Chloromethane	<16		50	16	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Dibromochloromethane	<24		50	24	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Dibromomethane	<14		50	14	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Dichlorodifluoromethane	<34		150	34	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: Trip Blank (MeOH)
Date Collected: 10/23/19 00:00
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-22
Matrix: Solid
Percent Solids: 100.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<9.2		13	9.2	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Hexachlorobutadiene	<22		50	22	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Isopropyl ether	<14		50	14	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Isopropylbenzene	<19		50	19	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Methyl tert-butyl ether	<20		50	20	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Methylene Chloride	<82		250	82	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Naphthalene	<17		50	17	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
n-Butylbenzene	<19		50	19	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
sec-Butylbenzene	<20		50	20	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Styrene	<19		50	19	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Tetrachloroethene	<19		50	19	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Toluene	<7.4		13	7.4	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Trichloroethene	<8.2		25	8.2	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Trichlorofluoromethane	<21		50	21	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Vinyl chloride	<13		50	13	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50
Xylenes, Total	<11		25	11	ug/Kg	☼	10/23/19 00:00	11/04/19 19:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*10/23/19 00:00*	*11/04/19 19:08*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*10/23/19 00:00*	*11/04/19 19:08*	*50*
Dibromofluoromethane	*99*		*75 - 120*	*10/23/19 00:00*	*11/04/19 19:08*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*10/23/19 00:00*	*11/04/19 19:08*	*50*

Definitions/Glossary

Client: Stantec Consulting Corp. Job ID: 500-172312-1
Project/Site: South Main Street Property - 193706313

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

GC/MS VOA

Prep Batch: 512141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-1	TW1 5-7.5	Total/NA	Solid	5035	
500-172312-3	TW2 5-7.5	Total/NA	Solid	5035	
500-172312-5	TW3 0-1	Total/NA	Solid	5035	
500-172312-7	DUP1	Total/NA	Solid	5035	
500-172312-9	SB1 0-2.5	Total/NA	Solid	5035	
500-172312-10	SB2 0-2.5	Total/NA	Solid	5035	
500-172312-13	SB3 5-7.5	Total/NA	Solid	5035	
500-172312-14	SB4 0-2.5	Total/NA	Solid	5035	
500-172312-15	SB5 0-2.5	Total/NA	Solid	5035	
500-172312-16	SB6 0-2.5	Total/NA	Solid	5035	
500-172312-22	Trip Blank (MeOH)	Total/NA	Solid	5035	

Analysis Batch: 513355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-1	TW1 5-7.5	Total/NA	Solid	8260B	512141
500-172312-3	TW2 5-7.5	Total/NA	Solid	8260B	512141
500-172312-5	TW3 0-1	Total/NA	Solid	8260B	512141
500-172312-7	DUP1	Total/NA	Solid	8260B	512141
500-172312-9	SB1 0-2.5	Total/NA	Solid	8260B	512141
500-172312-10	SB2 0-2.5	Total/NA	Solid	8260B	512141
500-172312-13	SB3 5-7.5	Total/NA	Solid	8260B	512141
500-172312-14	SB4 0-2.5	Total/NA	Solid	8260B	512141
500-172312-15	SB5 0-2.5	Total/NA	Solid	8260B	512141
500-172312-16	SB6 0-2.5	Total/NA	Solid	8260B	512141
500-172312-22	Trip Blank (MeOH)	Total/NA	Solid	8260B	512141
MB 500-513355/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-513355/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 513383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-17	TW1	Total/NA	Water	8260B	
500-172312-18	TW2	Total/NA	Water	8260B	
500-172312-19	TW3	Total/NA	Water	8260B	
500-172312-20	DUP3	Total/NA	Water	8260B	
500-172312-21	Trip Blank (HCl)	Total/NA	Water	8260B	
MB 500-513383/10	Method Blank	Total/NA	Water	8260B	
LCS 500-513383/28	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 512612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-17	TW1	Total/NA	Water	3510C	
500-172312-18	TW2	Total/NA	Water	3510C	
500-172312-19	TW3	Total/NA	Water	3510C	
500-172312-20	DUP3	Total/NA	Water	3510C	
MB 500-512612/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-512612/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC/MS Semi VOA

Analysis Batch: 512739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-18	TW2	Total/NA	Water	8270D	512612
500-172312-19	TW3	Total/NA	Water	8270D	512612
500-172312-20	DUP3	Total/NA	Water	8270D	512612
MB 500-512612/1-A	Method Blank	Total/NA	Water	8270D	512612
LCS 500-512612/2-A	Lab Control Sample	Total/NA	Water	8270D	512612

Analysis Batch: 512971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-17	TW1	Total/NA	Water	8270D	512612

Prep Batch: 513007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-2	TW1 2.5-5	Total/NA	Solid	3541	
500-172312-4	TW2 0-2.5	Total/NA	Solid	3541	
500-172312-6	TW3 3-5	Total/NA	Solid	3541	
500-172312-8	DUP2	Total/NA	Solid	3541	
500-172312-9	SB1 0-2.5	Total/NA	Solid	3541	
500-172312-11	SB2 2.5-5	Total/NA	Solid	3541	
500-172312-12	SB3 0-1	Total/NA	Solid	3541	
500-172312-14	SB4 0-2.5	Total/NA	Solid	3541	
500-172312-15	SB5 0-2.5	Total/NA	Solid	3541	
500-172312-16	SB6 0-2.5	Total/NA	Solid	3541	
MB 500-513007/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-513007/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-172312-4 MS	TW2 0-2.5	Total/NA	Solid	3541	
500-172312-4 MSD	TW2 0-2.5	Total/NA	Solid	3541	

Analysis Batch: 513058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-513007/1-A	Method Blank	Total/NA	Solid	8270D	513007
LCS 500-513007/2-A	Lab Control Sample	Total/NA	Solid	8270D	513007

Analysis Batch: 513064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-2	TW1 2.5-5	Total/NA	Solid	8270D	513007
500-172312-4	TW2 0-2.5	Total/NA	Solid	8270D	513007
500-172312-8	DUP2	Total/NA	Solid	8270D	513007
500-172312-9	SB1 0-2.5	Total/NA	Solid	8270D	513007
500-172312-11	SB2 2.5-5	Total/NA	Solid	8270D	513007
500-172312-12	SB3 0-1	Total/NA	Solid	8270D	513007
500-172312-14	SB4 0-2.5	Total/NA	Solid	8270D	513007
500-172312-4 MS	TW2 0-2.5	Total/NA	Solid	8270D	513007
500-172312-4 MSD	TW2 0-2.5	Total/NA	Solid	8270D	513007

Analysis Batch: 513430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-6	TW3 3-5	Total/NA	Solid	8270D	513007
500-172312-16	SB6 0-2.5	Total/NA	Solid	8270D	513007

GC/MS Semi VOA

Analysis Batch: 513604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-15	SB5 0-2.5	Total/NA	Solid	8270D	513007

Metals

Prep Batch: 512443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-17	TW1	Dissolved	Water	7470A	
500-172312-18	TW2	Dissolved	Water	7470A	
500-172312-19	TW3	Dissolved	Water	7470A	
500-172312-20	DUP3	Dissolved	Water	7470A	
MB 500-512443/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-512443/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 512688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-2	TW1 2.5-5	Total/NA	Solid	7471B	
500-172312-4	TW2 0-2.5	Total/NA	Solid	7471B	
500-172312-6	TW3 3-5	Total/NA	Solid	7471B	
500-172312-8	DUP2	Total/NA	Solid	7471B	
500-172312-9	SB1 0-2.5	Total/NA	Solid	7471B	
500-172312-11	SB2 2.5-5	Total/NA	Solid	7471B	
500-172312-12	SB3 0-1	Total/NA	Solid	7471B	
500-172312-14	SB4 0-2.5	Total/NA	Solid	7471B	
500-172312-15	SB5 0-2.5	Total/NA	Solid	7471B	
500-172312-16	SB6 0-2.5	Total/NA	Solid	7471B	
MB 500-512688/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-512688/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-172312-4 MS	TW2 0-2.5	Total/NA	Solid	7471B	
500-172312-4 MSD	TW2 0-2.5	Total/NA	Solid	7471B	
500-172312-4 DU	TW2 0-2.5	Total/NA	Solid	7471B	

Analysis Batch: 512707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-17	TW1	Dissolved	Water	7470A	512443
500-172312-18	TW2	Dissolved	Water	7470A	512443
500-172312-19	TW3	Dissolved	Water	7470A	512443
500-172312-20	DUP3	Dissolved	Water	7470A	512443
MB 500-512443/12-A	Method Blank	Total/NA	Water	7470A	512443
LCS 500-512443/13-A	Lab Control Sample	Total/NA	Water	7470A	512443

Analysis Batch: 512924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-2	TW1 2.5-5	Total/NA	Solid	7471B	512688
500-172312-4	TW2 0-2.5	Total/NA	Solid	7471B	512688
500-172312-6	TW3 3-5	Total/NA	Solid	7471B	512688
500-172312-8	DUP2	Total/NA	Solid	7471B	512688
500-172312-9	SB1 0-2.5	Total/NA	Solid	7471B	512688
500-172312-11	SB2 2.5-5	Total/NA	Solid	7471B	512688
500-172312-12	SB3 0-1	Total/NA	Solid	7471B	512688
500-172312-14	SB4 0-2.5	Total/NA	Solid	7471B	512688
500-172312-15	SB5 0-2.5	Total/NA	Solid	7471B	512688

Metals (Continued)

Analysis Batch: 512924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-16	SB6 0-2.5	Total/NA	Solid	7471B	512688
MB 500-512688/12-A	Method Blank	Total/NA	Solid	7471B	512688
LCS 500-512688/13-A	Lab Control Sample	Total/NA	Solid	7471B	512688
500-172312-4 MS	TW2 0-2.5	Total/NA	Solid	7471B	512688
500-172312-4 MSD	TW2 0-2.5	Total/NA	Solid	7471B	512688
500-172312-4 DU	TW2 0-2.5	Total/NA	Solid	7471B	512688

Prep Batch: 513000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-17	TW1	Dissolved	Water	3005A	
500-172312-18	TW2	Dissolved	Water	3005A	
500-172312-19	TW3	Dissolved	Water	3005A	
500-172312-20	DUP3	Dissolved	Water	3005A	
MB 500-513000/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-513000/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 513006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-2	TW1 2.5-5	Total/NA	Solid	3050B	
500-172312-4	TW2 0-2.5	Total/NA	Solid	3050B	
500-172312-6	TW3 3-5	Total/NA	Solid	3050B	
500-172312-8	DUP2	Total/NA	Solid	3050B	
500-172312-9	SB1 0-2.5	Total/NA	Solid	3050B	
500-172312-11	SB2 2.5-5	Total/NA	Solid	3050B	
500-172312-12	SB3 0-1	Total/NA	Solid	3050B	
500-172312-14	SB4 0-2.5	Total/NA	Solid	3050B	
500-172312-15	SB5 0-2.5	Total/NA	Solid	3050B	
500-172312-16	SB6 0-2.5	Total/NA	Solid	3050B	
MB 500-513006/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-513006/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-172312-4 MS	TW2 0-2.5	Total/NA	Solid	3050B	
500-172312-4 MSD	TW2 0-2.5	Total/NA	Solid	3050B	
500-172312-4 DU	TW2 0-2.5	Total/NA	Solid	3050B	

Analysis Batch: 513330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-2	TW1 2.5-5	Total/NA	Solid	6010C	513006
500-172312-4	TW2 0-2.5	Total/NA	Solid	6010C	513006
500-172312-6	TW3 3-5	Total/NA	Solid	6010C	513006
500-172312-8	DUP2	Total/NA	Solid	6010C	513006
500-172312-9	SB1 0-2.5	Total/NA	Solid	6010C	513006
500-172312-11	SB2 2.5-5	Total/NA	Solid	6010C	513006
500-172312-12	SB3 0-1	Total/NA	Solid	6010C	513006
500-172312-14	SB4 0-2.5	Total/NA	Solid	6010C	513006
500-172312-15	SB5 0-2.5	Total/NA	Solid	6010C	513006
500-172312-16	SB6 0-2.5	Total/NA	Solid	6010C	513006
MB 500-513006/1-A	Method Blank	Total/NA	Solid	6010C	513006
LCS 500-513006/2-A	Lab Control Sample	Total/NA	Solid	6010C	513006
500-172312-4 MS	TW2 0-2.5	Total/NA	Solid	6010C	513006
500-172312-4 MSD	TW2 0-2.5	Total/NA	Solid	6010C	513006
500-172312-4 DU	TW2 0-2.5	Total/NA	Solid	6010C	513006

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Metals

Analysis Batch: 513394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-17	TW1	Dissolved	Water	6020A	513000
500-172312-18	TW2	Dissolved	Water	6020A	513000
500-172312-19	TW3	Dissolved	Water	6020A	513000
500-172312-20	DUP3	Dissolved	Water	6020A	513000
MB 500-513000/1-A	Method Blank	Total Recoverable	Water	6020A	513000
LCS 500-513000/2-A	Lab Control Sample	Total Recoverable	Water	6020A	513000

Analysis Batch: 513473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-2	TW1 2.5-5	Total/NA	Solid	6010C	513006
500-172312-4	TW2 0-2.5	Total/NA	Solid	6010C	513006
500-172312-6	TW3 3-5	Total/NA	Solid	6010C	513006
500-172312-8	DUP2	Total/NA	Solid	6010C	513006
500-172312-9	SB1 0-2.5	Total/NA	Solid	6010C	513006
500-172312-11	SB2 2.5-5	Total/NA	Solid	6010C	513006
500-172312-12	SB3 0-1	Total/NA	Solid	6010C	513006
500-172312-14	SB4 0-2.5	Total/NA	Solid	6010C	513006
500-172312-15	SB5 0-2.5	Total/NA	Solid	6010C	513006
500-172312-16	SB6 0-2.5	Total/NA	Solid	6010C	513006
MB 500-513006/1-A	Method Blank	Total/NA	Solid	6010C	513006
LCS 500-513006/2-A	Lab Control Sample	Total/NA	Solid	6010C	513006
500-172312-4 MS	TW2 0-2.5	Total/NA	Solid	6010C	513006
500-172312-4 MSD	TW2 0-2.5	Total/NA	Solid	6010C	513006
500-172312-4 DU	TW2 0-2.5	Total/NA	Solid	6010C	513006

General Chemistry

Analysis Batch: 512234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-172312-1	TW1 5-7.5	Total/NA	Solid	Moisture	
500-172312-2	TW1 2.5-5	Total/NA	Solid	Moisture	
500-172312-3	TW2 5-7.5	Total/NA	Solid	Moisture	
500-172312-4	TW2 0-2.5	Total/NA	Solid	Moisture	
500-172312-5	TW3 0-1	Total/NA	Solid	Moisture	
500-172312-6	TW3 3-5	Total/NA	Solid	Moisture	
500-172312-7	DUP1	Total/NA	Solid	Moisture	
500-172312-8	DUP2	Total/NA	Solid	Moisture	
500-172312-9	SB1 0-2.5	Total/NA	Solid	Moisture	
500-172312-10	SB2 0-2.5	Total/NA	Solid	Moisture	
500-172312-11	SB2 2.5-5	Total/NA	Solid	Moisture	
500-172312-12	SB3 0-1	Total/NA	Solid	Moisture	
500-172312-13	SB3 5-7.5	Total/NA	Solid	Moisture	
500-172312-14	SB4 0-2.5	Total/NA	Solid	Moisture	
500-172312-15	SB5 0-2.5	Total/NA	Solid	Moisture	
500-172312-16	SB6 0-2.5	Total/NA	Solid	Moisture	
500-172312-22	Trip Blank (MeOH)	Total/NA	Solid	Moisture	
500-172312-8 DU	DUP2	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-172312-1	TW1 5-7.5	94	94	100	97
500-172312-3	TW2 5-7.5	96	95	99	97
500-172312-5	TW3 0-1	96	92	101	96
500-172312-7	DUP1	96	94	100	97
500-172312-9	SB1 0-2.5	96	91	100	98
500-172312-10	SB2 0-2.5	97	93	103	96
500-172312-13	SB3 5-7.5	96	95	101	98
500-172312-14	SB4 0-2.5	98	95	100	97
500-172312-15	SB5 0-2.5	98	95	99	98
500-172312-16	SB6 0-2.5	97	95	99	99
500-172312-22	Trip Blank (MeOH)	96	95	99	97
LCS 500-513355/4	Lab Control Sample	91	97	101	100
MB 500-513355/6	Method Blank	92	94	99	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-172312-17	TW1	114	100	112	98
500-172312-18	TW2	116	97	112	99
500-172312-19	TW3	117	102	111	98
500-172312-20	DUP3	112	102	110	99
500-172312-21	Trip Blank (HCl)	113	99	111	99
LCS 500-513383/28	Lab Control Sample	110	95	105	101
MB 500-513383/10	Method Blank	113	99	109	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(43-145)	(37-147)	(42-157)
500-172312-2	TW1 2.5-5	93	59	102
500-172312-4	TW2 0-2.5	95	55	100
500-172312-4 MS	TW2 0-2.5	95	62	96
500-172312-4 MSD	TW2 0-2.5	103	68	103
500-172312-6	TW3 3-5	103	63	117

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 500-172312-1
Project/Site: South Main Street Property - 193706313

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(43-145)	(37-147)	(42-157)
500-172312-8	DUP2	103	65	110
500-172312-9	SB1 0-2.5	97	58	107
500-172312-11	SB2 2.5-5	88	54	103
500-172312-12	SB3 0-1	80	47	103
500-172312-14	SB4 0-2.5	78	43	111
500-172312-15	SB5 0-2.5	79	44	93
500-172312-16	SB6 0-2.5	75	50	104
LCS 500-513007/2-A	Lab Control Sample	89	81	93
MB 500-513007/1-A	Method Blank	92	82	93

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(34-110)	(36-120)	(40-145)
500-172312-17	TW1	60	40	65
500-172312-18	TW2	63	55	82
500-172312-19	TW3	48	46	80
500-172312-20	DUP3	54	50	84
LCS 500-512612/2-A	Lab Control Sample	53	52	71
MB 500-512612/1-A	Method Blank	58	58	86

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-513355/6
Matrix: Solid
Analysis Batch: 513355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			11/04/19 10:34	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			11/04/19 10:34	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			11/04/19 10:34	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			11/04/19 10:34	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			11/04/19 10:34	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			11/04/19 10:34	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			11/04/19 10:34	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			11/04/19 10:34	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			11/04/19 10:34	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			11/04/19 10:34	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			11/04/19 10:34	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			11/04/19 10:34	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			11/04/19 10:34	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			11/04/19 10:34	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			11/04/19 10:34	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			11/04/19 10:34	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			11/04/19 10:34	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			11/04/19 10:34	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			11/04/19 10:34	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			11/04/19 10:34	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			11/04/19 10:34	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			11/04/19 10:34	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			11/04/19 10:34	1
Benzene	<0.15		0.25	0.15	ug/Kg			11/04/19 10:34	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			11/04/19 10:34	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			11/04/19 10:34	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			11/04/19 10:34	1
Bromoform	<0.48		1.0	0.48	ug/Kg			11/04/19 10:34	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			11/04/19 10:34	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			11/04/19 10:34	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			11/04/19 10:34	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			11/04/19 10:34	1
Chloroform	<0.37		2.0	0.37	ug/Kg			11/04/19 10:34	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			11/04/19 10:34	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			11/04/19 10:34	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			11/04/19 10:34	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			11/04/19 10:34	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			11/04/19 10:34	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			11/04/19 10:34	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			11/04/19 10:34	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			11/04/19 10:34	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			11/04/19 10:34	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			11/04/19 10:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			11/04/19 10:34	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			11/04/19 10:34	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			11/04/19 10:34	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			11/04/19 10:34	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			11/04/19 10:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-513355/6
Matrix: Solid
Analysis Batch: 513355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			11/04/19 10:34	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			11/04/19 10:34	1
Styrene	<0.39		1.0	0.39	ug/Kg			11/04/19 10:34	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			11/04/19 10:34	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			11/04/19 10:34	1
Toluene	<0.15		0.25	0.15	ug/Kg			11/04/19 10:34	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			11/04/19 10:34	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			11/04/19 10:34	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			11/04/19 10:34	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			11/04/19 10:34	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			11/04/19 10:34	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			11/04/19 10:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*11/04/19 10:34*	*1*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*11/04/19 10:34*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*11/04/19 10:34*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*11/04/19 10:34*	*1*

Lab Sample ID: LCS 500-513355/4
Matrix: Solid
Analysis Batch: 513355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.4		ug/Kg		97	70 - 125
1,1,1-Trichloroethane	50.0	49.6		ug/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.5		ug/Kg		91	62 - 140
1,1,2-Trichloroethane	50.0	46.1		ug/Kg		92	71 - 130
1,1-Dichloroethane	50.0	49.2		ug/Kg		98	70 - 125
1,1-Dichloroethene	50.0	52.6		ug/Kg		105	67 - 122
1,1-Dichloropropene	50.0	49.3		ug/Kg		99	70 - 121
1,2,3-Trichlorobenzene	50.0	33.8		ug/Kg		68	51 - 145
1,2,3-Trichloropropane	50.0	47.2		ug/Kg		94	50 - 133
1,2,4-Trichlorobenzene	50.0	43.0		ug/Kg		86	57 - 137
1,2,4-Trimethylbenzene	50.0	50.2		ug/Kg		100	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	36.8		ug/Kg		74	56 - 123
1,2-Dibromoethane	50.0	46.3		ug/Kg		93	70 - 125
1,2-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 125
1,2-Dichloroethane	50.0	44.5		ug/Kg		89	68 - 127
1,2-Dichloropropane	50.0	48.2		ug/Kg		96	67 - 130
1,3,5-Trimethylbenzene	50.0	50.2		ug/Kg		100	70 - 123
1,3-Dichlorobenzene	50.0	50.5		ug/Kg		101	70 - 125
1,3-Dichloropropane	50.0	45.4		ug/Kg		91	62 - 136
1,4-Dichlorobenzene	50.0	49.6		ug/Kg		99	70 - 120
2,2-Dichloropropane	50.0	46.3		ug/Kg		93	58 - 139
2-Chlorotoluene	50.0	48.9		ug/Kg		98	70 - 125
4-Chlorotoluene	50.0	49.5		ug/Kg		99	68 - 124
Benzene	50.0	49.3		ug/Kg		99	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-513355/4
Matrix: Solid
Analysis Batch: 513355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	49.6		ug/Kg		99	70 - 122
Bromochloromethane	50.0	50.0		ug/Kg		100	65 - 122
Bromodichloromethane	50.0	45.7		ug/Kg		91	69 - 120
Bromoform	50.0	46.0		ug/Kg		92	56 - 132
Bromomethane	50.0	46.8		ug/Kg		94	40 - 152
Carbon tetrachloride	50.0	51.9		ug/Kg		104	59 - 133
Chlorobenzene	50.0	49.4		ug/Kg		99	70 - 120
Chloroethane	50.0	51.0		ug/Kg		102	48 - 136
Chloroform	50.0	46.2		ug/Kg		92	70 - 120
Chloromethane	50.0	45.5		ug/Kg		91	56 - 152
cis-1,2-Dichloroethene	50.0	50.0		ug/Kg		100	70 - 125
cis-1,3-Dichloropropene	50.0	45.6		ug/Kg		91	64 - 127
Dibromochloromethane	50.0	46.2		ug/Kg		92	68 - 125
Dibromomethane	50.0	47.9		ug/Kg		96	70 - 120
Dichlorodifluoromethane	50.0	42.4		ug/Kg		85	40 - 159
Ethylbenzene	50.0	50.0		ug/Kg		100	70 - 123
Hexachlorobutadiene	50.0	47.6		ug/Kg		95	51 - 150
Isopropylbenzene	50.0	50.6		ug/Kg		101	70 - 126
Methyl tert-butyl ether	50.0	44.6		ug/Kg		89	55 - 123
Methylene Chloride	50.0	50.1		ug/Kg		100	69 - 125
Naphthalene	50.0	35.2		ug/Kg		70	53 - 144
n-Butylbenzene	50.0	50.8		ug/Kg		102	68 - 125
N-Propylbenzene	50.0	50.4		ug/Kg		101	69 - 127
p-Isopropyltoluene	50.0	51.1		ug/Kg		102	70 - 125
sec-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 123
Styrene	50.0	49.0		ug/Kg		98	70 - 120
tert-Butylbenzene	50.0	49.9		ug/Kg		100	70 - 121
Tetrachloroethene	50.0	51.9		ug/Kg		104	70 - 128
Toluene	50.0	49.3		ug/Kg		99	70 - 125
trans-1,2-Dichloroethene	50.0	50.8		ug/Kg		102	70 - 125
trans-1,3-Dichloropropene	50.0	43.9		ug/Kg		88	62 - 128
Trichloroethene	50.0	51.5		ug/Kg		103	70 - 125
Trichlorofluoromethane	50.0	50.9		ug/Kg		102	55 - 128
Vinyl chloride	50.0	51.5		ug/Kg		103	64 - 126
Xylenes, Total	100	98.1		ug/Kg		98	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*
Dibromofluoromethane	*101*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: MB 500-513383/10
Matrix: Water
Analysis Batch: 513383

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/04/19 13:44	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-513383/10
Matrix: Water
Analysis Batch: 513383

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/04/19 13:44	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/04/19 13:44	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/04/19 13:44	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/04/19 13:44	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/04/19 13:44	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/04/19 13:44	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/04/19 13:44	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/04/19 13:44	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/04/19 13:44	1
1,2,4-Trimethylbenzene	0.660	J	1.0	0.36	ug/L			11/04/19 13:44	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/04/19 13:44	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/04/19 13:44	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/04/19 13:44	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/04/19 13:44	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/04/19 13:44	1
1,3,5-Trimethylbenzene	0.620	J	1.0	0.25	ug/L			11/04/19 13:44	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/04/19 13:44	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/04/19 13:44	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/04/19 13:44	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/04/19 13:44	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/04/19 13:44	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/04/19 13:44	1
Benzene	<0.15		0.50	0.15	ug/L			11/04/19 13:44	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/04/19 13:44	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/04/19 13:44	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/04/19 13:44	1
Bromoform	<0.48		1.0	0.48	ug/L			11/04/19 13:44	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/04/19 13:44	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/04/19 13:44	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/04/19 13:44	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/04/19 13:44	1
Chloroform	<0.37		2.0	0.37	ug/L			11/04/19 13:44	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/04/19 13:44	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/04/19 13:44	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/04/19 13:44	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/04/19 13:44	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/04/19 13:44	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/04/19 13:44	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/04/19 13:44	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/04/19 13:44	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/04/19 13:44	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/04/19 13:44	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/04/19 13:44	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/04/19 13:44	1
Naphthalene	0.772	J	1.0	0.34	ug/L			11/04/19 13:44	1
n-Butylbenzene	0.562	J	1.0	0.39	ug/L			11/04/19 13:44	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/04/19 13:44	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/04/19 13:44	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/19 13:44	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-513383/10
Matrix: Water
Analysis Batch: 513383

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.487	J	1.0	0.39	ug/L			11/04/19 13:44	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/04/19 13:44	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/04/19 13:44	1
Toluene	<0.15		0.50	0.15	ug/L			11/04/19 13:44	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/04/19 13:44	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/04/19 13:44	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/04/19 13:44	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/04/19 13:44	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/19 13:44	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/04/19 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*		*11/04/19 13:44*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*11/04/19 13:44*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*11/04/19 13:44*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*11/04/19 13:44*	*1*

Lab Sample ID: LCS 500-513383/28
Matrix: Water
Analysis Batch: 513383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.7		ug/L		109	70 - 125
1,1,1-Trichloroethane	50.0	55.9		ug/L		112	70 - 125
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	62 - 140
1,1,2-Trichloroethane	50.0	59.1		ug/L		118	71 - 130
1,1-Dichloroethane	50.0	53.7		ug/L		107	70 - 125
1,1-Dichloroethene	50.0	53.2		ug/L		106	67 - 122
1,1-Dichloropropene	50.0	54.9		ug/L		110	70 - 121
1,2,3-Trichlorobenzene	50.0	53.7		ug/L		107	51 - 145
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	50 - 133
1,2,4-Trichlorobenzene	50.0	54.8		ug/L		110	57 - 137
1,2,4-Trimethylbenzene	50.0	48.2		ug/L		96	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	54.1		ug/L		108	56 - 123
1,2-Dibromoethane	50.0	60.3		ug/L		121	70 - 125
1,2-Dichlorobenzene	50.0	49.9		ug/L		100	70 - 125
1,2-Dichloroethane	50.0	54.9		ug/L		110	68 - 127
1,2-Dichloropropane	50.0	58.0		ug/L		116	67 - 130
1,3,5-Trimethylbenzene	50.0	46.5		ug/L		93	70 - 123
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	70 - 125
1,3-Dichloropropane	50.0	59.3		ug/L		119	62 - 136
1,4-Dichlorobenzene	50.0	49.0		ug/L		98	70 - 120
2,2-Dichloropropane	50.0	59.3		ug/L		119	58 - 139
2-Chlorotoluene	50.0	51.5		ug/L		103	70 - 125
4-Chlorotoluene	50.0	52.5		ug/L		105	68 - 124
Benzene	50.0	53.9		ug/L		108	70 - 120
Bromobenzene	50.0	52.0		ug/L		104	70 - 122
Bromochloromethane	50.0	53.1		ug/L		106	65 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-513383/28
Matrix: Water
Analysis Batch: 513383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	56.1		ug/L		112	69 - 120
Bromoform	50.0	65.6		ug/L		131	56 - 132
Bromomethane	50.0	41.0		ug/L		82	40 - 152
Carbon tetrachloride	50.0	55.1		ug/L		110	59 - 133
Chlorobenzene	50.0	52.6		ug/L		105	70 - 120
Chloroethane	50.0	47.4		ug/L		95	48 - 136
Chloroform	50.0	52.7		ug/L		105	70 - 120
Chloromethane	50.0	51.4		ug/L		103	56 - 152
cis-1,2-Dichloroethene	50.0	54.5		ug/L		109	70 - 125
cis-1,3-Dichloropropene	50.0	55.1		ug/L		110	64 - 127
Dibromochloromethane	50.0	58.7		ug/L		117	68 - 125
Dibromomethane	50.0	57.9		ug/L		116	70 - 120
Dichlorodifluoromethane	50.0	47.6		ug/L		95	40 - 159
Ethylbenzene	50.0	55.1		ug/L		110	70 - 123
Hexachlorobutadiene	50.0	56.7		ug/L		113	51 - 150
Isopropylbenzene	50.0	49.9		ug/L		100	70 - 126
Methyl tert-butyl ether	50.0	62.8	*	ug/L		126	55 - 123
Methylene Chloride	50.0	51.9		ug/L		104	69 - 125
Naphthalene	50.0	48.8		ug/L		98	53 - 144
n-Butylbenzene	50.0	48.1		ug/L		96	68 - 125
N-Propylbenzene	50.0	52.2		ug/L		104	69 - 127
p-Isopropyltoluene	50.0	52.4		ug/L		105	70 - 125
sec-Butylbenzene	50.0	51.0		ug/L		102	70 - 123
Styrene	50.0	51.0		ug/L		102	70 - 120
tert-Butylbenzene	50.0	45.5		ug/L		91	70 - 121
Tetrachloroethene	50.0	56.3		ug/L		113	70 - 128
Toluene	50.0	55.7		ug/L		111	70 - 125
trans-1,2-Dichloroethene	50.0	52.1		ug/L		104	70 - 125
trans-1,3-Dichloropropene	50.0	61.1		ug/L		122	62 - 128
Trichloroethene	50.0	50.4		ug/L		101	70 - 125
Trichlorofluoromethane	50.0	46.0		ug/L		92	55 - 128
Vinyl chloride	50.0	47.5		ug/L		95	64 - 126
Xylenes, Total	100	116		ug/L		116	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*
Dibromofluoromethane	*105*		*75 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-512612/1-A
Matrix: Water
Analysis Batch: 512739

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 512612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		10/30/19 08:16	10/30/19 20:46	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		10/30/19 08:16	10/30/19 20:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-512612/1-A
Matrix: Water
Analysis Batch: 512739

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 512612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25		0.80	0.25	ug/L		10/30/19 08:16	10/30/19 20:46	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		10/30/19 08:16	10/30/19 20:46	1
Anthracene	<0.27		0.80	0.27	ug/L		10/30/19 08:16	10/30/19 20:46	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		10/30/19 08:16	10/30/19 20:46	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		10/30/19 08:16	10/30/19 20:46	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		10/30/19 08:16	10/30/19 20:46	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		10/30/19 08:16	10/30/19 20:46	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		10/30/19 08:16	10/30/19 20:46	1
Chrysene	<0.055		0.16	0.055	ug/L		10/30/19 08:16	10/30/19 20:46	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		10/30/19 08:16	10/30/19 20:46	1
Fluoranthene	<0.36		0.80	0.36	ug/L		10/30/19 08:16	10/30/19 20:46	1
Fluorene	<0.20		0.80	0.20	ug/L		10/30/19 08:16	10/30/19 20:46	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		10/30/19 08:16	10/30/19 20:46	1
Naphthalene	<0.25		0.80	0.25	ug/L		10/30/19 08:16	10/30/19 20:46	1
Phenanthrene	<0.24		0.80	0.24	ug/L		10/30/19 08:16	10/30/19 20:46	1
Pyrene	<0.34		0.80	0.34	ug/L		10/30/19 08:16	10/30/19 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*34 - 110*	*10/30/19 08:16*	*10/30/19 20:46*	*1*
Nitrobenzene-d5 (Surr)	*58*		*36 - 120*	*10/30/19 08:16*	*10/30/19 20:46*	*1*
Terphenyl-d14 (Surr)	*86*		*40 - 145*	*10/30/19 08:16*	*10/30/19 20:46*	*1*

Lab Sample ID: LCS 500-512612/2-A
Matrix: Water
Analysis Batch: 512739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 512612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	32.0	14.8		ug/L		46	38 - 110
2-Methylnaphthalene	32.0	14.4		ug/L		45	34 - 110
Acenaphthene	32.0	17.5		ug/L		55	46 - 110
Acenaphthylene	32.0	18.2		ug/L		57	47 - 113
Anthracene	32.0	22.4		ug/L		70	67 - 118
Benzo[a]anthracene	32.0	24.2		ug/L		76	70 - 126
Benzo[a]pyrene	32.0	25.2		ug/L		79	70 - 135
Benzo[b]fluoranthene	32.0	24.7		ug/L		77	69 - 136
Benzo[g,h,i]perylene	32.0	27.0		ug/L		84	70 - 135
Benzo[k]fluoranthene	32.0	25.2		ug/L		79	70 - 133
Chrysene	32.0	25.3		ug/L		79	68 - 129
Dibenz(a,h)anthracene	32.0	26.4		ug/L		82	70 - 134
Fluoranthene	32.0	23.8		ug/L		74	68 - 126
Fluorene	32.0	19.8		ug/L		62	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	26.5		ug/L		83	65 - 133
Naphthalene	32.0	14.3		ug/L		45	36 - 110
Phenanthrene	32.0	22.0		ug/L		69	65 - 120
Pyrene	32.0	23.1		ug/L		72	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*53*		*34 - 110*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-512612/2-A
Matrix: Water
Analysis Batch: 512739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 512612

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	52		36 - 120
Terphenyl-d14 (Surr)	71		40 - 145

Lab Sample ID: MB 500-513007/1-A
Matrix: Solid
Analysis Batch: 513058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 513007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Acenaphthene	<6.0		33	6.0	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Anthracene	<5.6		33	5.6	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Chrysene	<9.1		33	9.1	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Fluoranthene	<6.2		33	6.2	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Fluorene	<4.7		33	4.7	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Naphthalene	<5.1		33	5.1	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Phenanthrene	<4.6		33	4.6	ug/Kg		10/31/19 17:47	11/01/19 12:41	1
Pyrene	<6.6		33	6.6	ug/Kg		10/31/19 17:47	11/01/19 12:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		43 - 145	10/31/19 17:47	11/01/19 12:41	1
Nitrobenzene-d5 (Surr)	82		37 - 147	10/31/19 17:47	11/01/19 12:41	1
Terphenyl-d14 (Surr)	93		42 - 157	10/31/19 17:47	11/01/19 12:41	1

Lab Sample ID: LCS 500-513007/2-A
Matrix: Solid
Analysis Batch: 513058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 513007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1170		ug/Kg		88	68 - 111
2-Methylnaphthalene	1330	1260		ug/Kg		95	69 - 112
Acenaphthene	1330	1190		ug/Kg		89	65 - 124
Acenaphthylene	1330	1180		ug/Kg		88	68 - 120
Anthracene	1330	1220		ug/Kg		91	70 - 114
Benzo[a]anthracene	1330	1250		ug/Kg		94	67 - 122
Benzo[a]pyrene	1330	1270		ug/Kg		95	65 - 133
Benzo[b]fluoranthene	1330	1210		ug/Kg		90	69 - 129
Benzo[g,h,i]perylene	1330	1330		ug/Kg		100	72 - 131
Benzo[k]fluoranthene	1330	1430		ug/Kg		107	68 - 127
Chrysene	1330	1220		ug/Kg		92	63 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-513007/2-A
Matrix: Solid
Analysis Batch: 513058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 513007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenz(a,h)anthracene	1330	1320		ug/Kg		99	64 - 131
Fluoranthene	1330	1260		ug/Kg		95	62 - 120
Fluorene	1330	1170		ug/Kg		87	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1330		ug/Kg		100	68 - 130
Naphthalene	1330	1160		ug/Kg		87	63 - 110
Phenanthrene	1330	1210		ug/Kg		91	62 - 120
Pyrene	1330	1300		ug/Kg		98	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*89*		*43 - 145*
Nitrobenzene-d5 (Surr)	*81*		*37 - 147*
Terphenyl-d14 (Surr)	*93*		*42 - 157*

Lab Sample ID: 500-172312-4 MS
Matrix: Solid
Analysis Batch: 513064

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 513007

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	<9.3		1520	1300		ug/Kg	☼	86	68 - 111
2-Methylnaphthalene	<7.0		1520	1480		ug/Kg	☼	97	69 - 112
Acenaphthene	<6.9		1520	1390		ug/Kg	☼	91	65 - 124
Acenaphthylene	<5.0		1520	1360		ug/Kg	☼	90	68 - 120
Anthracene	<6.4		1520	1390		ug/Kg	☼	91	70 - 114
Benzo[a]anthracene	<5.1		1520	1370		ug/Kg	☼	90	67 - 122
Benzo[a]pyrene	14	J	1520	1350		ug/Kg	☼	88	65 - 133
Benzo[b]fluoranthene	13	J	1520	1150		ug/Kg	☼	75	69 - 129
Benzo[g,h,i]perylene	<12	F1	1520	1190		ug/Kg	☼	78	72 - 131
Benzo[k]fluoranthene	<11		1520	1540		ug/Kg	☼	101	68 - 127
Chrysene	12	J	1520	1490		ug/Kg	☼	98	63 - 120
Dibenz(a,h)anthracene	<7.4		1520	1320		ug/Kg	☼	87	64 - 131
Fluoranthene	16	J	1520	1400		ug/Kg	☼	91	62 - 120
Fluorene	<5.4		1520	1470		ug/Kg	☼	97	62 - 120
Indeno[1,2,3-cd]pyrene	11	J	1520	1280		ug/Kg	☼	84	68 - 130
Naphthalene	<5.9		1520	1280		ug/Kg	☼	85	63 - 110
Phenanthrene	9.9	J	1520	1340		ug/Kg	☼	88	62 - 120
Pyrene	19	J	1520	1320		ug/Kg	☼	86	61 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*95*		*43 - 145*
Nitrobenzene-d5 (Surr)	*62*		*37 - 147*
Terphenyl-d14 (Surr)	*96*		*42 - 157*

Lab Sample ID: 500-172312-4 MSD
Matrix: Solid
Analysis Batch: 513064

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 513007

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	<9.3		1540	1480		ug/Kg	☼	96	68 - 111	13	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-172312-4 MSD
Matrix: Solid
Analysis Batch: 513064

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 513007

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	<7.0		1540	1590		ug/Kg	☼	103	69 - 112	8	30
Acenaphthene	<6.9		1540	1530		ug/Kg	☼	99	65 - 124	10	30
Acenaphthylene	<5.0		1540	1510		ug/Kg	☼	98	68 - 120	10	30
Anthracene	<6.4		1540	1530		ug/Kg	☼	99	70 - 114	10	30
Benzo[a]anthracene	<5.1		1540	1460		ug/Kg	☼	95	67 - 122	7	30
Benzo[a]pyrene	14	J	1540	1440		ug/Kg	☼	93	65 - 133	7	30
Benzo[b]fluoranthene	13	J	1540	1400		ug/Kg	☼	90	69 - 129	20	30
Benzo[g,h,i]perylene	<12	F1	1540	1090	F1	ug/Kg	☼	71	72 - 131	8	30
Benzo[k]fluoranthene	<11		1540	1570		ug/Kg	☼	102	68 - 127	2	30
Chrysene	12	J	1540	1590		ug/Kg	☼	102	63 - 120	6	30
Dibenz(a,h)anthracene	<7.4		1540	1300		ug/Kg	☼	84	64 - 131	2	30
Fluoranthene	16	J	1540	1530		ug/Kg	☼	98	62 - 120	9	30
Fluorene	<5.4		1540	1620		ug/Kg	☼	105	62 - 120	10	30
Indeno[1,2,3-cd]pyrene	11	J	1540	1270		ug/Kg	☼	81	68 - 130	1	30
Naphthalene	<5.9		1540	1440		ug/Kg	☼	94	63 - 110	12	30
Phenanthrene	9.9	J	1540	1460		ug/Kg	☼	94	62 - 120	9	30
Pyrene	19	J	1540	1430		ug/Kg	☼	92	61 - 128	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*103*		*43 - 145*
Nitrobenzene-d5 (Surr)	*68*		*37 - 147*
Terphenyl-d14 (Surr)	*103*		*42 - 157*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-513006/1-A
Matrix: Solid
Analysis Batch: 513330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 513006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.430	J	1.0	0.11	mg/Kg		10/31/19 17:38	11/01/19 23:59	1
Cadmium	0.0517	J	0.20	0.036	mg/Kg		10/31/19 17:38	11/01/19 23:59	1
Chromium	0.876	J	1.0	0.50	mg/Kg		10/31/19 17:38	11/01/19 23:59	1
Lead	<0.23	^	0.50	0.23	mg/Kg		10/31/19 17:38	11/01/19 23:59	1
Selenium	<0.59		1.0	0.59	mg/Kg		10/31/19 17:38	11/01/19 23:59	1
Silver	0.155	J ^	0.50	0.13	mg/Kg		10/31/19 17:38	11/01/19 23:59	1

Lab Sample ID: MB 500-513006/1-A
Matrix: Solid
Analysis Batch: 513473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 513006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		10/31/19 17:38	11/04/19 12:56	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-513006/2-A
Matrix: Solid
Analysis Batch: 513330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 513006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200	192		mg/Kg		96	80 - 120
Cadmium	5.00	4.72		mg/Kg		94	80 - 120
Chromium	20.0	20.0		mg/Kg		100	80 - 120
Lead	10.0	9.21	^	mg/Kg		92	80 - 120
Selenium	10.0	8.35		mg/Kg		83	80 - 120
Silver	5.00	4.57	^	mg/Kg		91	80 - 120

Lab Sample ID: LCS 500-513006/2-A
Matrix: Solid
Analysis Batch: 513473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 513006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.09		mg/Kg		91	80 - 120

Lab Sample ID: 500-172312-4 MS
Matrix: Solid
Analysis Batch: 513330

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 513006

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	37	B	218	279		mg/Kg	☼	111	75 - 125
Cadmium	0.18	J B	5.45	5.16		mg/Kg	☼	91	75 - 125
Chromium	9.5	B	21.8	35.3		mg/Kg	☼	118	75 - 125
Selenium	<0.67	F1	10.9	8.33		mg/Kg	☼	76	75 - 125

Lab Sample ID: 500-172312-4 MS
Matrix: Solid
Analysis Batch: 513473

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 513006

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3.0		10.9	15.4		mg/Kg	☼	114	75 - 125
Lead	28	F1	10.9	57.4	F1	mg/Kg	☼	273	75 - 125
Silver	1.6		5.45	7.69		mg/Kg	☼	111	75 - 125

Lab Sample ID: 500-172312-4 MSD
Matrix: Solid
Analysis Batch: 513330

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 513006

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	37	B	222	269		mg/Kg	☼	105	75 - 125	4	20
Cadmium	0.18	J B	5.54	5.43		mg/Kg	☼	95	75 - 125	5	20
Chromium	9.5	B	22.2	31.5		mg/Kg	☼	100	75 - 125	11	20
Selenium	<0.67	F1	11.1	8.21	F1	mg/Kg	☼	74	75 - 125	1	20

Lab Sample ID: 500-172312-4 MSD
Matrix: Solid
Analysis Batch: 513473

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 513006

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.0		11.1	15.3		mg/Kg	☼	111	75 - 125	1	20
Lead	28	F1	11.1	55.2	F1	mg/Kg	☼	248	75 - 125	4	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 500-172312-4 MSD
Matrix: Solid
Analysis Batch: 513473

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 513006

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	1.6		5.54	7.99		mg/Kg	☼	115	75 - 125	4	20

Lab Sample ID: 500-172312-4 DU
Matrix: Solid
Analysis Batch: 513330

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 513006

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	37	B	37.0		mg/Kg	☼	0.6	20
Cadmium	0.18	J B	0.156	J	mg/Kg	☼	13	20
Chromium	9.5	B	10.1		mg/Kg	☼	7	20
Selenium	<0.67	F1	<0.65		mg/Kg	☼	NC	20

Lab Sample ID: 500-172312-4 DU
Matrix: Solid
Analysis Batch: 513473

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 513006

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	3.0		3.28		mg/Kg	☼	9	20
Lead	28	F1	25.8		mg/Kg	☼	7	20
Silver	1.6		1.81		mg/Kg	☼	10	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-513000/1-A
Matrix: Water
Analysis Batch: 513394

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 513000

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00023		0.0010	0.00023	mg/L		10/31/19 16:48	11/01/19 14:22	1
Barium	<0.00073		0.0025	0.00073	mg/L		10/31/19 16:48	11/01/19 14:22	1
Cadmium	<0.00017		0.00050	0.00017	mg/L		10/31/19 16:48	11/01/19 14:22	1
Chromium	<0.0011		0.0050	0.0011	mg/L		10/31/19 16:48	11/01/19 14:22	1
Lead	<0.00019		0.00050	0.00019	mg/L		10/31/19 16:48	11/01/19 14:22	1
Selenium	<0.00098		0.0025	0.00098	mg/L		10/31/19 16:48	11/01/19 14:22	1
Silver	<0.00012		0.00050	0.00012	mg/L		10/31/19 16:48	11/01/19 14:22	1

Lab Sample ID: LCS 500-513000/2-A
Matrix: Water
Analysis Batch: 513394

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 513000

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.107		mg/L		107	80 - 120
Barium	0.500	0.501		mg/L		100	80 - 120
Cadmium	0.0500	0.0499		mg/L		100	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Lead	0.100	0.0991		mg/L		99	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Silver	0.0500	0.0494		mg/L		99	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-512443/12-A
Matrix: Water
Analysis Batch: 512707

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 512443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000098		0.00020	0.000098	mg/L		10/29/19 09:55	10/30/19 07:17	1

Lab Sample ID: LCS 500-512443/13-A
Matrix: Water
Analysis Batch: 512707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 512443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00193		mg/L		96	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-512688/12-A
Matrix: Solid
Analysis Batch: 512924

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 512688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		10/30/19 15:05	10/31/19 09:15	1

Lab Sample ID: LCS 500-512688/13-A
Matrix: Solid
Analysis Batch: 512924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 512688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.157		mg/Kg		94	80 - 120

Lab Sample ID: 500-172312-4 MS
Matrix: Solid
Analysis Batch: 512924

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 512688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.071		0.0873	0.158		mg/Kg	☼	100	75 - 125

Lab Sample ID: 500-172312-4 MSD
Matrix: Solid
Analysis Batch: 512924

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 512688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.071		0.0871	0.148		mg/Kg	☼	88	75 - 125	7	20

Lab Sample ID: 500-172312-4 DU
Matrix: Solid
Analysis Batch: 512924

Client Sample ID: TW2 0-2.5
Prep Type: Total/NA
Prep Batch: 512688

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.071		0.108	F3	mg/Kg	☼	41	20

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: TW1 5-7.5
Date Collected: 10/23/19 10:15
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: TW1 5-7.5
Date Collected: 10/23/19 10:15
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-1
Matrix: Solid
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			512141	10/23/19 10:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	513355	11/04/19 14:52	APL	TAL CHI

Client Sample ID: TW1 2.5-5
Date Collected: 10/23/19 10:17
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: TW1 2.5-5
Date Collected: 10/23/19 10:17
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-2
Matrix: Solid
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			513007	10/31/19 17:47	ACK	TAL CHI
Total/NA	Analysis	8270D		1	513064	11/01/19 12:59	GWB	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513473	11/04/19 13:04	EEN	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513330	11/02/19 00:50	EEN	TAL CHI
Total/NA	Prep	7471B			512688	10/30/19 15:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	512924	10/31/19 09:49	MJG	TAL CHI

Client Sample ID: TW2 5-7.5
Date Collected: 10/23/19 10:45
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: TW2 5-7.5
Date Collected: 10/23/19 10:45
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-3
Matrix: Solid
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			512141	10/23/19 10:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	513355	11/04/19 15:18	APL	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: TW2 0-2.5
Date Collected: 10/23/19 10:47
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: TW2 0-2.5
Date Collected: 10/23/19 10:47
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-4
Matrix: Solid
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			513007	10/31/19 17:47	ACK	TAL CHI
Total/NA	Analysis	8270D		1	513064	11/01/19 13:26	GWB	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513473	11/04/19 13:08	EEN	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513330	11/02/19 00:54	EEN	TAL CHI
Total/NA	Prep	7471B			512688	10/30/19 15:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	512924	10/31/19 09:51	MJG	TAL CHI

Client Sample ID: TW3 0-1
Date Collected: 10/23/19 11:10
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: TW3 0-1
Date Collected: 10/23/19 11:10
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-5
Matrix: Solid
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			512141	10/23/19 11:10	WRE	TAL CHI
Total/NA	Analysis	8260B		200	513355	11/04/19 15:43	APL	TAL CHI

Client Sample ID: TW3 3-5
Date Collected: 10/23/19 11:12
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: TW3 3-5
Date Collected: 10/23/19 11:12
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-6
Matrix: Solid
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			513007	10/31/19 17:47	ACK	TAL CHI
Total/NA	Analysis	8270D		5	513430	11/04/19 14:47	AJD	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: TW3 3-5

Lab Sample ID: 500-172312-6
Date Collected: 10/23/19 11:12
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513473	11/04/19 13:36	EEN	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513330	11/02/19 01:15	EEN	TAL CHI
Total/NA	Prep	7471B			512688	10/30/19 15:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	512924	10/31/19 10:04	MJG	TAL CHI

Client Sample ID: DUP1

Lab Sample ID: 500-172312-7
Date Collected: 10/23/19 11:15
Matrix: Solid
Date Received: 10/24/19 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: DUP1

Lab Sample ID: 500-172312-7
Date Collected: 10/23/19 11:15
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			512141	10/23/19 11:15	WRE	TAL CHI
Total/NA	Analysis	8260B		200	513355	11/04/19 16:09	APL	TAL CHI

Client Sample ID: DUP2

Lab Sample ID: 500-172312-8
Date Collected: 10/23/19 11:25
Matrix: Solid
Date Received: 10/24/19 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: DUP2

Lab Sample ID: 500-172312-8
Date Collected: 10/23/19 11:25
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			513007	10/31/19 17:47	ACK	TAL CHI
Total/NA	Analysis	8270D		1	513064	11/01/19 12:32	GWB	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513473	11/04/19 13:40	EEN	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513330	11/02/19 01:19	EEN	TAL CHI
Total/NA	Prep	7471B			512688	10/30/19 15:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	512924	10/31/19 10:06	MJG	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: SB1 0-2.5
Date Collected: 10/23/19 11:45
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: SB1 0-2.5
Date Collected: 10/23/19 11:45
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-9
Matrix: Solid
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			512141	10/23/19 11:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	513355	11/04/19 16:35	APL	TAL CHI
Total/NA	Prep	3541			513007	10/31/19 17:47	ACK	TAL CHI
Total/NA	Analysis	8270D		1	513064	11/01/19 10:44	GWB	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513473	11/04/19 13:44	EEN	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513330	11/02/19 01:23	EEN	TAL CHI
Total/NA	Prep	7471B			512688	10/30/19 15:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	512924	10/31/19 10:08	MJG	TAL CHI

Client Sample ID: SB2 0-2.5
Date Collected: 10/23/19 14:30
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: SB2 0-2.5
Date Collected: 10/23/19 14:30
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-10
Matrix: Solid
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			512141	10/23/19 14:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	513355	11/04/19 17:00	APL	TAL CHI

Client Sample ID: SB2 2.5-5
Date Collected: 10/23/19 14:32
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: SB2 2.5-5

Lab Sample ID: 500-172312-11
Date Collected: 10/23/19 14:32
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			513007	10/31/19 17:47	ACK	TAL CHI
Total/NA	Analysis	8270D		1	513064	11/01/19 12:05	GWB	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513473	11/04/19 13:48	EEN	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513330	11/02/19 01:28	EEN	TAL CHI
Total/NA	Prep	7471B			512688	10/30/19 15:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	512924	10/31/19 10:10	MJG	TAL CHI

Client Sample ID: SB3 0-1

Lab Sample ID: 500-172312-12
Date Collected: 10/23/19 14:40
Matrix: Solid
Date Received: 10/24/19 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: SB3 0-1

Lab Sample ID: 500-172312-12
Date Collected: 10/23/19 14:40
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			513007	10/31/19 17:47	ACK	TAL CHI
Total/NA	Analysis	8270D		10	513064	11/01/19 17:57	GWB	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513473	11/04/19 13:52	EEN	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513330	11/02/19 01:40	EEN	TAL CHI
Total/NA	Prep	7471B			512688	10/30/19 15:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	512924	10/31/19 10:12	MJG	TAL CHI

Client Sample ID: SB3 5-7.5

Lab Sample ID: 500-172312-13
Date Collected: 10/23/19 14:42
Matrix: Solid
Date Received: 10/24/19 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: SB3 5-7.5

Lab Sample ID: 500-172312-13
Date Collected: 10/23/19 14:42
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			512141	10/23/19 14:42	WRE	TAL CHI
Total/NA	Analysis	8260B		50	513355	11/04/19 17:26	APL	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: SB4 0-2.5
Date Collected: 10/23/19 14:50
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: SB4 0-2.5
Date Collected: 10/23/19 14:50
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-14
Matrix: Solid
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			512141	10/23/19 14:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	513355	11/04/19 17:52	APL	TAL CHI
Total/NA	Prep	3541			513007	10/31/19 17:47	ACK	TAL CHI
Total/NA	Analysis	8270D		10	513064	11/01/19 18:23	GWB	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513473	11/04/19 13:56	EEN	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513330	11/02/19 01:44	EEN	TAL CHI
Total/NA	Prep	7471B			512688	10/30/19 15:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	512924	10/31/19 10:14	MJG	TAL CHI

Client Sample ID: SB5 0-2.5
Date Collected: 10/23/19 15:00
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: SB5 0-2.5
Date Collected: 10/23/19 15:00
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-15
Matrix: Solid
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			512141	10/23/19 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	513355	11/04/19 18:17	APL	TAL CHI
Total/NA	Prep	3541			513007	10/31/19 17:47	ACK	TAL CHI
Total/NA	Analysis	8270D		5	513604	11/05/19 14:00	AJD	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513473	11/04/19 14:08	EEN	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513330	11/02/19 01:48	EEN	TAL CHI
Total/NA	Prep	7471B			512688	10/30/19 15:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	512924	10/31/19 10:16	MJG	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: South Main Street Property - 193706313

Job ID: 500-172312-1

Client Sample ID: SB6 0-2.5
Date Collected: 10/23/19 15:05
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: SB6 0-2.5
Date Collected: 10/23/19 15:05
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-16
Matrix: Solid
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			512141	10/23/19 15:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	513355	11/04/19 18:43	APL	TAL CHI
Total/NA	Prep	3541			513007	10/31/19 17:47	ACK	TAL CHI
Total/NA	Analysis	8270D		5	513430	11/04/19 13:53	AJD	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513473	11/04/19 14:12	EEN	TAL CHI
Total/NA	Prep	3050B			513006	10/31/19 17:38	BDE	TAL CHI
Total/NA	Analysis	6010C		1	513330	11/02/19 01:53	EEN	TAL CHI
Total/NA	Prep	7471B			512688	10/30/19 15:05	MJG	TAL CHI
Total/NA	Analysis	7471B		1	512924	10/31/19 10:19	MJG	TAL CHI

Client Sample ID: TW1
Date Collected: 10/23/19 12:55
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513383	11/04/19 19:45	JDD	TAL CHI
Total/NA	Prep	3510C			512612	10/30/19 08:16	CMC	TAL CHI
Total/NA	Analysis	8270D		5	512971	10/31/19 21:50	NRJ	TAL CHI
Dissolved	Prep	3005A			513000	10/31/19 16:48	BDE	TAL CHI
Dissolved	Analysis	6020A		1	513394	11/01/19 15:10	FXG	TAL CHI
Dissolved	Prep	7470A			512443	10/29/19 09:55	MJG	TAL CHI
Dissolved	Analysis	7470A		1	512707	10/30/19 08:36	MJG	TAL CHI

Client Sample ID: TW2
Date Collected: 10/23/19 13:15
Date Received: 10/24/19 09:05

Lab Sample ID: 500-172312-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513383	11/04/19 20:13	JDD	TAL CHI
Total/NA	Prep	3510C			512612	10/30/19 08:16	CMC	TAL CHI
Total/NA	Analysis	8270D		1	512739	10/30/19 23:11	NRJ	TAL CHI
Dissolved	Prep	3005A			513000	10/31/19 16:48	BDE	TAL CHI
Dissolved	Analysis	6020A		1	513394	11/01/19 15:14	FXG	TAL CHI
Dissolved	Prep	7470A			512443	10/29/19 09:55	MJG	TAL CHI
Dissolved	Analysis	7470A		1	512707	10/30/19 08:38	MJG	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Job ID: 500-172312-1
Project/Site: South Main Street Property - 193706313

Client Sample ID: TW3
Lab Sample ID: 500-172312-19
Date Collected: 10/23/19 13:35
Matrix: Water
Date Received: 10/24/19 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513383	11/04/19 20:41	JDD	TAL CHI
Total/NA	Prep	3510C			512612	10/30/19 08:16	CMC	TAL CHI
Total/NA	Analysis	8270D		1	512739	10/30/19 23:35	NRJ	TAL CHI
Dissolved	Prep	3005A			513000	10/31/19 16:48	BDE	TAL CHI
Dissolved	Analysis	6020A		1	513394	11/01/19 15:18	FXG	TAL CHI
Dissolved	Prep	7470A			512443	10/29/19 09:55	MJG	TAL CHI
Dissolved	Analysis	7470A		1	512707	10/30/19 08:40	MJG	TAL CHI

Client Sample ID: DUP3
Lab Sample ID: 500-172312-20
Date Collected: 10/23/19 13:37
Matrix: Water
Date Received: 10/24/19 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513383	11/04/19 21:09	JDD	TAL CHI
Total/NA	Prep	3510C			512612	10/30/19 08:16	CMC	TAL CHI
Total/NA	Analysis	8270D		1	512739	10/30/19 23:59	NRJ	TAL CHI
Dissolved	Prep	3005A			513000	10/31/19 16:48	BDE	TAL CHI
Dissolved	Analysis	6020A		1	513394	11/01/19 15:22	FXG	TAL CHI
Dissolved	Prep	7470A			512443	10/29/19 09:55	MJG	TAL CHI
Dissolved	Analysis	7470A		1	512707	10/30/19 08:41	MJG	TAL CHI

Client Sample ID: Trip Blank (HCl)
Lab Sample ID: 500-172312-21
Date Collected: 10/23/19 00:00
Matrix: Water
Date Received: 10/24/19 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513383	11/04/19 21:36	JDD	TAL CHI

Client Sample ID: Trip Blank (MeOH)
Lab Sample ID: 500-172312-22
Date Collected: 10/23/19 00:00
Matrix: Solid
Date Received: 10/24/19 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	512234	10/28/19 11:25	LWN	TAL CHI

Client Sample ID: Trip Blank (MeOH)
Lab Sample ID: 500-172312-22
Date Collected: 10/23/19 00:00
Matrix: Solid
Date Received: 10/24/19 09:05
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			512141	10/23/19 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	513355	11/04/19 19:08	APL	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Stantec Consulting Corp. Job ID: 500-172312-1
Project/Site: South Main Street Property - 193706313

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-20

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins Environment Testing TestAmerica

500-172312

Client Information	Sampler: ENG	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-76204-35400.1
Client Contact: Erin Gross	Phone: 608 628 6278	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 1 of 3
Company: Stantec Consulting Corp.				Job #: 193706313
Address: 12075 Corporate Pkwy, Suite 200	Due Date Requested: Standard			
City: Mequon	TAT Requested (days): Standard			
State, Zip: WI, 53092				
Phone: 608 628 6278	PO #:			
Email: erin.gross@stantec.com	WO #:			
Project Name: South Main Street Property	Project #: 50006565			
Site: South Main St Property	SSOW#:			

500-172312 COC

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	PAH	RCRA Metals	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A	N	N		
1	TW1 5-7.5	10/23/19	10:15	C	Solid			X				Send EDD
2	TW1 2.5-5		10:17	C	Solid				X	X		
3	TW2 5-7.5		10:45	C	Solid			X				
4	TW2 0-2.5		10:47	C	Solid		X		X	X		
5	TW3 0-1		11:10	C	Solid			X				
6	TW3 3-5		11:12	C	Solid				X	X		
7	DUP1		11:15	C	Solid		X	X				
8	DUP2		11:25	C	Solid				X	X		
9	SB1 0-2.5		11:45	C	Solid			X	X	X		
10	SB2 0-2.5		14:30	C	Solid			X				
11	SB2 2.5-5		14:32	C	Solid				X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fed Ex

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Erin Gross	10/23/19, 16:15				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing TestAmerica

500-172312

Client Information	Sampler: ENG	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-76204-35400.3
Client Contact: Erin Gross	Phone: 608 628 6278	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 3 of 3
Company: Stantec Consulting Corp.		Analysis Requested		Job #: 193706313
Address: 12075 Corporate Pkwy, Suite 200	Due Date Requested: Standard			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Mequon	TAT Requested (days): Standard			
State, Zip: WI, 53092				
Phone: 608 628 6278	PO #:			Other:
Email: erin.gross@stantec.com	WO #:			
Project Name: South Main Street Property	Project #: 50006565			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	PAH	dis. RCRA metals	VOC	PAH	RCRA metals	Total Number of containers	Special Instructions/Note:
	Preservation Code:						F	N	D	F	N	N		
12 SB3 0-1	10/23/19	14:40	C	~~Water~~ Solid							X	X		Send EDD
13 SB3 5-7.5		14:42	C	Solid						X				
14 SB4 0-2.5		14:50	C	Solid						X	X	X		
15 SB5 0-2.5		15:00	C	Solid						X	X	X		
16 SB6 0-2.5		15:05	C	Solid						X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fed Ex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/23/19, 16:15	Stantec	[signature]	10/24/19 0905	TA-CHI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing TestAmerica

500-172312

Client Information	Sampler: ENG	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-76204-35400.2
Client Contact: Erin Gross	Phone: 608 628 6278	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 2 of 3
Company: Stantec Consulting Corp.		**Analysis Requested**		Job #: 193706313
Address: 12075 Corporate Pkwy, Suite 200	Due Date Requested: Standard			
City: Mequon	TAT Requested (days): Standard			
State, Zip: WI, 53092				
Phone: 608 628 6278	PO #:			
Email: erin.gross@stantec.com	WO #:			
Project Name: South Main Street Property	Project #: 50006565			
Site: South Main St Property	SSOW#:			

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA
M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC	PAH	RCRA Metals		VOC	PAH	dis RCRA metals	Total Number of containers	Special Instructions/Note:
					Preservation Code:			A	N	N		F	N	D		
		10/23/19			Solid											Send EDD
17	TW1	↓	12:55	G	Water							X	X	X		All dis. metals
18	TW2		13:15	G	Water							X	X	X		field filtered!
19	TW3		13:35	G	Water							X	X	X		
20	Dup 3		13:37	G	Water		X					X	X	X		
21	Trip Blank (HCL)		N/A	C	Water							X				
22	Trip Blank (MeOH)	↓	N/A	C	Water			X								
					~~Water~~											
					~~Water~~											
					~~Water~~											
					~~Water~~											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ________ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Erin Gross	10/23/19, 16:15	Stantec	[signature]	10/24/19 0905	TA-CHI

Custody Seals Intact: △ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.8

Ver: 01/16/2019

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Login Sample Receipt Checklist

Client: Stantec Consulting Corp. Job Number: 500-172312-1

Login Number: 172312 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1,1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-180040-1
Client Project/Site: 24. 28. 32 S. Main St.- 19376313

For:
Stantec Consulting Corp.
12075 Corporate Pkwy, Suite 200
Mequon, Wisconsin 53092

Attn: Erin Gross

Authorized for release by:
4/13/2020 11:16:52 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Job ID: 500-180040-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-180040-1

Comments
No additional comments.

Receipt
The samples were received on 3/31/2020 10:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The COC lists 2 containers for samples -11 and -12. We received 1 jar for each sample.

GC/MS VOA
Method 8260B: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: TW5 (500-180040-6).

Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: TW5 (500-180040-6). Elevated reporting limits (RLs) are provided.

Method 8260B: The MSD (matrix spike duplicate) in batch 537159 was analyzed 7 minute outside the method specified 12 hour tune time. (500-180040-A-1-A MSD)

Method 8260B: The extraction LCS associated with preparation batch 526783 had several analytes recoveries above control limits. The instrument LCS associated with analytical batch 536810 had all analytes within control limits; therefore re-analysis was not performed. The data have been reported and qualified.
MeOH TB (500-180040-15) and (LCS 500-536783/18-A)

Method 8260B: The extraction LCS associated with preparation batch 536581 had several analytes recoveries above control limits. The instrument LCS associated with analytical batch 537159 had all analytes within control limits; therefore re-analysis was not performed. The data have been reported and qualified.
TW6 0-2.5 (500-180040-1), TW6 2.5-5 (500-180040-2), TW5 0-2.5 (500-180040-4), TW5 2.5-5 (500-180040-5), TW4 0-2.5 (500-180040-7), TW4 2.5-5 (500-180040-8) and (LCS 500-536581/22-A)

Method 8260B: The extraction blank for 536581 contained Methylene chloride above the method detection limit (MDL) and below the reporting limit (RL). The method blank associated with analytical batch 537159 has non-detect for Methylene chloride. Methylene chloride was non-detect in the associated samples; therefore, re-extraction and re-analysis of the sample was not performed: therefore the results were reported.

Method 8260B: The method blank for analytical batch 536810 contained Naphthalene above the Method detection limit (MDL) but below reporting limit (RL). Naphthalene was non-detect in the sample: therefore, no re-analysis was done and the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following sample was diluted due to the nature of the sample matrix: TW7 0-2.5 (500-180040-11). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-180040-1 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: TW6 0-2.5 — Lab Sample ID: 500-180040-1

No Detections.

Client Sample ID: TW6 2.5-5 — Lab Sample ID: 500-180040-2

No Detections.

Client Sample ID: TW6 — Lab Sample ID: 500-180040-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.7		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	0.39	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: TW5 0-2.5 — Lab Sample ID: 500-180040-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	250		54	20	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	18	J	27	8.9	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: TW5 2.5-5 — Lab Sample ID: 500-180040-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	29	J	67	27	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	3800		67	25	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	44		33	11	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: TW5 — Lab Sample ID: 500-180040-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.16	J	0.50	0.15	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.1		1.0	0.41	ug/L	1		8260B	Total/NA
Toluene	0.41	J	0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	1.9		0.50	0.16	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	420		10	3.7	ug/L	10		8260B	Total/NA

Client Sample ID: TW4 0-2.5 — Lab Sample ID: 500-180040-7

No Detections.

Client Sample ID: TW4 2.5-5 — Lab Sample ID: 500-180040-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	370		73	27	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	20	J	37	12	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: TW4 — Lab Sample ID: 500-180040-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.6		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: DUP — Lab Sample ID: 500-180040-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.7		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: TW7 0-2.5 — Lab Sample ID: 500-180040-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	61	J	670	61	ug/Kg	10	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TW7 0-2.5 (Continued)

Lab Sample ID: 500-180040-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	91	J	330	59	ug/Kg	10	☼	8270D	Total/NA
Acenaphthylene	1400		330	43	ug/Kg	10	☼	8270D	Total/NA
Anthracene	1200		330	55	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	4500		330	44	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	4800		330	64	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	6700		330	71	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1900		330	110	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	2900		330	97	ug/Kg	10	☼	8270D	Total/NA
Chrysene	4600		330	90	ug/Kg	10	☼	8270D	Total/NA
Dibenz(a,h)anthracene	730		330	64	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	7500		330	61	ug/Kg	10	☼	8270D	Total/NA
Fluorene	420		330	46	ug/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1400		330	85	ug/Kg	10	☼	8270D	Total/NA
Naphthalene	72	J	330	51	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	3900		330	46	ug/Kg	10	☼	8270D	Total/NA
Pyrene	7300		330	66	ug/Kg	10	☼	8270D	Total/NA

Client Sample ID: TW7 5-7.5

Lab Sample ID: 500-180040-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	5.8	J	34	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	16	J	34	6.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	14	J	34	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	15	J	34	6.8	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: TW7

Lab Sample ID: 500-180040-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.30		0.20	0.056	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.56		0.20	0.098	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.56		0.20	0.080	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.35		0.20	0.063	ug/L	1		8270D	Total/NA
Chrysene	0.26		0.20	0.067	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.16	J	0.30	0.050	ug/L	1		8270D	Total/NA
Fluoranthene	0.52	J	0.99	0.45	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.34		0.20	0.074	ug/L	1		8270D	Total/NA
Phenanthrene	0.36	J	0.99	0.30	ug/L	1		8270D	Total/NA

Client Sample ID: HCL TB

Lab Sample ID: 500-180040-14

No Detections.

Client Sample ID: MeOH TB

Lab Sample ID: 500-180040-15

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-180040-1	TW6 0-2.5	Solid	03/30/20 10:15	03/31/20 10:35	
500-180040-2	TW6 2.5-5	Solid	03/30/20 10:20	03/31/20 10:35	
500-180040-3	TW6	Water	03/30/20 11:05	03/31/20 10:35	
500-180040-4	TW5 0-2.5	Solid	03/30/20 10:50	03/31/20 10:35	
500-180040-5	TW5 2.5-5	Solid	03/30/20 10:55	03/31/20 10:35	
500-180040-6	TW5	Water	03/30/20 12:00	03/31/20 10:35	
500-180040-7	TW4 0-2.5	Solid	03/30/20 11:40	03/31/20 10:35	
500-180040-8	TW4 2.5-5	Solid	03/30/20 11:45	03/31/20 10:35	
500-180040-9	TW4	Water	03/30/20 12:25	03/31/20 10:35	
500-180040-10	DUP	Water	03/30/20 12:26	03/31/20 10:35	
500-180040-11	TW7 0-2.5	Solid	03/30/20 12:35	03/31/20 10:35	
500-180040-12	TW7 5-7.5	Solid	03/30/20 12:40	03/31/20 10:35	
500-180040-13	TW7	Water	03/30/20 12:50	03/31/20 10:35	
500-180040-14	HCL TB	Water	03/30/20 00:00	03/31/20 10:35	
500-180040-15	MeOH TB	Solid	03/30/20 00:00	03/31/20 10:35	

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: TW6 0-2.5
Date Collected: 03/30/20 10:15
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-1
Matrix: Solid
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,1,2,2-Tetrachloroethane	<28		72	28	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,1-Dichloroethane	<29		72	29	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,1-Dichloroethene	<28		72	28	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,1-Dichloropropene	<21		72	21	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,2,3-Trichloropropane	<30		140	30	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,2,4-Trichlorobenzene	<24		72	24	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,2,4-Trimethylbenzene	<26		72	26	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,2-Dibromoethane	<28		72	28	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,2-Dichloroethane	<28		72	28	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,2-Dichloropropane	<31		72	31	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,3,5-Trimethylbenzene	<27		72	27	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,3-Dichloropropane	<26		72	26	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
1,4-Dichlorobenzene	<26	*	72	26	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
2,2-Dichloropropane	<32		72	32	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
2-Chlorotoluene	<22		72	22	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
4-Chlorotoluene	<25		72	25	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Benzene	<10	*	18	10	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Bromobenzene	<25		72	25	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Bromochloromethane	<31		72	31	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Bromodichloromethane	<27		72	27	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Bromoform	<35		72	35	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Bromomethane	<57		210	57	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Carbon tetrachloride	<27		72	27	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Chlorobenzene	<28		72	28	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Chloroethane	<36		72	36	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Chloroform	<26		140	26	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Chloromethane	<23		72	23	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
cis-1,2-Dichloroethene	<29		72	29	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Dibromochloromethane	<35		72	35	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Dibromomethane	<19		72	19	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Dichlorodifluoromethane	<48		210	48	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Ethylbenzene	<13	*	18	13	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Hexachlorobutadiene	<32		72	32	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Isopropyl ether	<20		72	20	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Isopropylbenzene	<27		72	27	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Methyl tert-butyl ether	<28		72	28	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Methylene Chloride	<120	*	360	120	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Naphthalene	<24		72	24	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
n-Butylbenzene	<28	*	72	28	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
N-Propylbenzene	<30		72	30	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
p-Isopropyltoluene	<26		72	26	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50

Client Sample ID: TW6 0-2.5

Date Collected: 03/30/20 10:15
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-1
Matrix: Solid
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<28	*	72	28	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Styrene	<28	*	72	28	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
tert-Butylbenzene	<28		72	28	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Tetrachloroethene	<26		72	26	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Toluene	<11		18	11	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
trans-1,2-Dichloroethene	<25		72	25	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Trichloroethene	<12		36	12	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Trichlorofluoromethane	<31		72	31	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Vinyl chloride	<19		72	19	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50
Xylenes, Total	<16		36	16	ug/Kg	☼	03/26/20 10:15	04/08/20 01:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*03/26/20 10:15*	*04/08/20 01:31*	*50*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*03/26/20 10:15*	*04/08/20 01:31*	*50*
Dibromofluoromethane	*94*		*75 - 120*	*03/26/20 10:15*	*04/08/20 01:31*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*03/26/20 10:15*	*04/08/20 01:31*	*50*

Client Sample ID: TW6 2.5-5

Date Collected: 03/30/20 10:20
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-2
Matrix: Solid
Percent Solids: 90.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		60	28	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,1,1-Trichloroethane	<23		60	23	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,1,2,2-Tetrachloroethane	<24		60	24	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,1,2-Trichloroethane	<21		60	21	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,1-Dichloroethane	<25		60	25	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,1-Dichloroethene	<23		60	23	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,1-Dichloropropene	<18		60	18	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,2,3-Trichlorobenzene	<27		60	27	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,2,4-Trichlorobenzene	<20		60	20	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,2,4-Trimethylbenzene	<21		60	21	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,2-Dibromoethane	<23		60	23	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,2-Dichlorobenzene	<20		60	20	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,2-Dichloroethane	<23		60	23	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,2-Dichloropropane	<26		60	26	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,3-Dichlorobenzene	<24		60	24	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,3-Dichloropropane	<22		60	22	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
1,4-Dichlorobenzene	<22	*	60	22	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
2,2-Dichloropropane	<27		60	27	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
2-Chlorotoluene	<19		60	19	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
4-Chlorotoluene	<21		60	21	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Benzene	<8.7	*	15	8.7	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Bromobenzene	<21		60	21	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Bromochloromethane	<26		60	26	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50

Client Sample ID: TW6 2.5-5

Date Collected: 03/30/20 10:20
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-2

Matrix: Solid
Percent Solids: 90.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<22		60	22	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Bromoform	<29		60	29	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Bromomethane	<48		180	48	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Carbon tetrachloride	<23		60	23	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Chlorobenzene	<23		60	23	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Chloroethane	<30		60	30	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Chloroform	<22		120	22	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Chloromethane	<19		60	19	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
cis-1,2-Dichloroethene	<24		60	24	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
cis-1,3-Dichloropropene	<25		60	25	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Dibromochloromethane	<29		60	29	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Dibromomethane	<16		60	16	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Dichlorodifluoromethane	<40		180	40	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Ethylbenzene	<11	*	15	11	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Hexachlorobutadiene	<27		60	27	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Isopropyl ether	<17		60	17	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Isopropylbenzene	<23		60	23	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Methylene Chloride	<98	*	300	98	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Naphthalene	<20		60	20	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
n-Butylbenzene	<23	*	60	23	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
N-Propylbenzene	<25		60	25	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
p-Isopropyltoluene	<22		60	22	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
sec-Butylbenzene	<24	*	60	24	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Styrene	<23	*	60	23	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
tert-Butylbenzene	<24		60	24	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Tetrachloroethene	<22		60	22	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Toluene	<8.8		15	8.8	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
trans-1,2-Dichloroethene	<21		60	21	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
trans-1,3-Dichloropropene	<22		60	22	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Trichloroethene	<9.8		30	9.8	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Trichlorofluoromethane	<26		60	26	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Vinyl chloride	<16		60	16	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50
Xylenes, Total	<13		30	13	ug/Kg	☼	03/26/20 10:20	04/08/20 01:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*	*03/26/20 10:20*	*04/08/20 01:57*	*50*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*03/26/20 10:20*	*04/08/20 01:57*	*50*
Dibromofluoromethane	*91*		*75 - 120*	*03/26/20 10:20*	*04/08/20 01:57*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*03/26/20 10:20*	*04/08/20 01:57*	*50*

Client Sample ID: TW6

Date Collected: 03/30/20 11:05
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/07/20 06:23	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/07/20 06:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/07/20 06:23	1

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: TW6
Date Collected: 03/30/20 11:05
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/07/20 06:23	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/07/20 06:23	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/07/20 06:23	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/07/20 06:23	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/07/20 06:23	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/07/20 06:23	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/07/20 06:23	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/07/20 06:23	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/07/20 06:23	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/07/20 06:23	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/07/20 06:23	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/07/20 06:23	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/07/20 06:23	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/07/20 06:23	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/07/20 06:23	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/07/20 06:23	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/07/20 06:23	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/07/20 06:23	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/07/20 06:23	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/07/20 06:23	1
Benzene	<0.15		0.50	0.15	ug/L			04/07/20 06:23	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/07/20 06:23	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/07/20 06:23	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/07/20 06:23	1
Bromoform	<0.48		1.0	0.48	ug/L			04/07/20 06:23	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/07/20 06:23	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/07/20 06:23	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/07/20 06:23	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/07/20 06:23	1
Chloroform	<0.37		2.0	0.37	ug/L			04/07/20 06:23	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/07/20 06:23	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/07/20 06:23	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/07/20 06:23	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/07/20 06:23	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/07/20 06:23	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/07/20 06:23	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/07/20 06:23	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/07/20 06:23	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/07/20 06:23	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/07/20 06:23	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/07/20 06:23	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/07/20 06:23	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/07/20 06:23	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/07/20 06:23	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/07/20 06:23	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/07/20 06:23	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/07/20 06:23	1
Styrene	<0.39		1.0	0.39	ug/L			04/07/20 06:23	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/07/20 06:23	1

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: TW6

Date Collected: 03/30/20 11:05
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**2.7**		1.0	0.37	ug/L			04/07/20 06:23	1
Toluene	<0.15		0.50	0.15	ug/L			04/07/20 06:23	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/07/20 06:23	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/07/20 06:23	1
Trichloroethene	**0.39**	**J**	0.50	0.16	ug/L			04/07/20 06:23	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/07/20 06:23	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/07/20 06:23	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/07/20 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*04/07/20 06:23*	*1*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*		*04/07/20 06:23*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*04/07/20 06:23*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/07/20 06:23*	*1*

Client Sample ID: TW5 0-2.5

Date Collected: 03/30/20 10:50
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-4

Matrix: Solid
Percent Solids: 95.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<25		54	25	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,1,1-Trichloroethane	<21		54	21	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,1,2,2-Tetrachloroethane	<22		54	22	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,1,2-Trichloroethane	<19		54	19	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,1-Dichloroethane	<22		54	22	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,1-Dichloroethene	<21		54	21	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,1-Dichloropropene	<16		54	16	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,2,3-Trichlorobenzene	<25		54	25	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,2,3-Trichloropropane	<23		110	23	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,2,4-Trichlorobenzene	<19		54	19	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,2,4-Trimethylbenzene	<19		54	19	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,2-Dibromo-3-Chloropropane	<110		270	110	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,2-Dibromoethane	<21		54	21	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,2-Dichlorobenzene	<18		54	18	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,2-Dichloroethane	<21		54	21	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,2-Dichloropropane	<23		54	23	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,3,5-Trimethylbenzene	<21		54	21	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,3-Dichlorobenzene	<22		54	22	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,3-Dichloropropane	<20		54	20	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
1,4-Dichlorobenzene	<20	*	54	20	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
2,2-Dichloropropane	<24		54	24	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
2-Chlorotoluene	<17		54	17	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
4-Chlorotoluene	<19		54	19	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Benzene	<7.9	*	14	7.9	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Bromobenzene	<19		54	19	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Bromochloromethane	<23		54	23	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Bromodichloromethane	<20		54	20	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Bromoform	<26		54	26	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Bromomethane	<43		160	43	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50

Client Sample ID: TW5 0-2.5

Date Collected: 03/30/20 10:50
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-4

Matrix: Solid
Percent Solids: 95.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<21		54	21	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Chlorobenzene	<21		54	21	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Chloroethane	<27		54	27	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Chloroform	<20		110	20	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Chloromethane	<17		54	17	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
cis-1,2-Dichloroethene	<22		54	22	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
cis-1,3-Dichloropropene	<23		54	23	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Dibromochloromethane	<27		54	27	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Dibromomethane	<15		54	15	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Dichlorodifluoromethane	<37		160	37	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Ethylbenzene	<10	*	14	10	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Hexachlorobutadiene	<24		54	24	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Isopropyl ether	<15		54	15	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Isopropylbenzene	<21		54	21	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Methyl tert-butyl ether	<21		54	21	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Methylene Chloride	<89	*	270	89	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Naphthalene	<18		54	18	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
n-Butylbenzene	<21	*	54	21	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
N-Propylbenzene	<23		54	23	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
p-Isopropyltoluene	<20		54	20	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
sec-Butylbenzene	<22	*	54	22	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Styrene	<21	*	54	21	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
tert-Butylbenzene	<22		54	22	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Tetrachloroethene	**250**		54	20	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Toluene	<8.0		14	8.0	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
trans-1,2-Dichloroethene	<19		54	19	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
trans-1,3-Dichloropropene	<20		54	20	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Trichloroethene	**18**	**J**	27	8.9	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Trichlorofluoromethane	<23		54	23	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Vinyl chloride	<14		54	14	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50
Xylenes, Total	<12		27	12	ug/Kg	☼	03/26/20 10:50	04/08/20 02:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*03/26/20 10:50*	*04/08/20 02:23*	*50*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*03/26/20 10:50*	*04/08/20 02:23*	*50*
Dibromofluoromethane	*93*		*75 - 120*	*03/26/20 10:50*	*04/08/20 02:23*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*03/26/20 10:50*	*04/08/20 02:23*	*50*

Client Sample ID: TW5 2.5-5

Date Collected: 03/30/20 10:55
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-5

Matrix: Solid
Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,1,1-Trichloroethane	<25		67	25	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,1,2-Trichloroethane	<23		67	23	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,1-Dichloroethane	<27		67	27	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,1-Dichloroethene	<26		67	26	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50

Client Sample ID: TW5 2.5-5

Date Collected: 03/30/20 10:55
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-5

Matrix: Solid
Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<20		67	20	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,2,3-Trichloropropane	<28		130	28	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,2-Dibromoethane	<26		67	26	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,2-Dichloroethane	<26		67	26	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,2-Dichloropropane	<29		67	29	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,3,5-Trimethylbenzene	<25		67	25	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,3-Dichloropropane	<24		67	24	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
1,4-Dichlorobenzene	<24	*	67	24	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
2,2-Dichloropropane	<30		67	30	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
2-Chlorotoluene	<21		67	21	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
4-Chlorotoluene	<23		67	23	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Benzene	<9.7	*	17	9.7	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Bromobenzene	<24		67	24	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Bromochloromethane	<29		67	29	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Bromodichloromethane	<25		67	25	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Bromoform	<32		67	32	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Bromomethane	<53		200	53	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Carbon tetrachloride	<26		67	26	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Chlorobenzene	<26		67	26	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Chloroethane	<34		67	34	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Chloroform	<25		130	25	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Chloromethane	<21		67	21	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
cis-1,2-Dichloroethene	**29**	**J**	67	27	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Dibromochloromethane	<33		67	33	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Dibromomethane	<18		67	18	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Ethylbenzene	<12	*	17	12	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Hexachlorobutadiene	<30		67	30	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Isopropyl ether	<18		67	18	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Isopropylbenzene	<26		67	26	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Methylene Chloride	<110	*	330	110	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Naphthalene	<22		67	22	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
n-Butylbenzene	<26	*	67	26	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
N-Propylbenzene	<28		67	28	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
p-Isopropyltoluene	<24		67	24	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
sec-Butylbenzene	<27	*	67	27	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Styrene	<26	*	67	26	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
tert-Butylbenzene	<27		67	27	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Tetrachloroethene	**3800**		67	25	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Toluene	<9.8		17	9.8	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
trans-1,2-Dichloroethene	<23		67	23	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50

Client Sample ID: TW5 2.5-5

Lab Sample ID: 500-180040-5
Date Collected: 03/30/20 10:55
Matrix: Solid
Date Received: 03/31/20 10:35
Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Trichloroethene	**44**		33	11	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Trichlorofluoromethane	<29		67	29	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Vinyl chloride	<17		67	17	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50
Xylenes, Total	<15		33	15	ug/Kg	☼	03/26/20 10:55	04/08/20 02:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*	*03/26/20 10:55*	*04/08/20 02:50*	*50*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*03/26/20 10:55*	*04/08/20 02:50*	*50*
Dibromofluoromethane	*95*		*75 - 120*	*03/26/20 10:55*	*04/08/20 02:50*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*03/26/20 10:55*	*04/08/20 02:50*	*50*

Client Sample ID: TW5

Lab Sample ID: 500-180040-6
Date Collected: 03/30/20 12:00
Matrix: Water
Date Received: 03/31/20 10:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/07/20 06:48	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/07/20 06:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/07/20 06:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/07/20 06:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/07/20 06:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/07/20 06:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/07/20 06:48	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/07/20 06:48	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/07/20 06:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/07/20 06:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/07/20 06:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/07/20 06:48	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/07/20 06:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/07/20 06:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/07/20 06:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/07/20 06:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/07/20 06:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/07/20 06:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/07/20 06:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/07/20 06:48	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/07/20 06:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/07/20 06:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/07/20 06:48	1
Benzene	**0.16**	**J**	0.50	0.15	ug/L			04/07/20 06:48	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/07/20 06:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/07/20 06:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/07/20 06:48	1
Bromoform	<0.48		1.0	0.48	ug/L			04/07/20 06:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/07/20 06:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/07/20 06:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/07/20 06:48	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/07/20 06:48	1

Client Sample ID: TW5

Date Collected: 03/30/20 12:00
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.37		2.0	0.37	ug/L			04/07/20 06:48	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/07/20 06:48	1
cis-1,2-Dichloroethene	**2.1**		1.0	0.41	ug/L			04/07/20 06:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/07/20 06:48	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/07/20 06:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/07/20 06:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/07/20 06:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/07/20 06:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/07/20 06:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/07/20 06:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/07/20 06:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/07/20 06:48	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/07/20 06:48	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/07/20 06:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/07/20 06:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/07/20 06:48	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/07/20 06:48	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/07/20 06:48	1
Styrene	<0.39		1.0	0.39	ug/L			04/07/20 06:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/07/20 06:48	1
Toluene	**0.41**	**J**	0.50	0.15	ug/L			04/07/20 06:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/07/20 06:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/07/20 06:48	1
Trichloroethene	**1.9**		0.50	0.16	ug/L			04/07/20 06:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/07/20 06:48	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/07/20 06:48	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/07/20 06:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*04/07/20 06:48*	*1*
4-Bromofluorobenzene (Surr)	*114*		*72 - 124*		*04/07/20 06:48*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*04/07/20 06:48*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*04/07/20 06:48*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**420**		10	3.7	ug/L			04/07/20 07:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*04/07/20 07:13*	*10*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*		*04/07/20 07:13*	*10*
Dibromofluoromethane	*99*		*75 - 120*		*04/07/20 07:13*	*10*
Toluene-d8 (Surr)	*102*		*75 - 120*		*04/07/20 07:13*	*10*

Client Sample ID: TW4 0-2.5

Date Collected: 03/30/20 11:40
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-7
Matrix: Solid
Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		65	30	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50

Client Sample ID: TW4 0-2.5

Date Collected: 03/30/20 11:40
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-7

Matrix: Solid
Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<25		65	25	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,1,2,2-Tetrachloroethane	<26		65	26	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,1,2-Trichloroethane	<23		65	23	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,1-Dichloroethane	<26		65	26	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,1-Dichloroethene	<25		65	25	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,1-Dichloropropene	<19		65	19	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,2,3-Trichlorobenzene	<30		65	30	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,2,4-Trichlorobenzene	<22		65	22	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,2,4-Trimethylbenzene	<23		65	23	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,2-Dibromoethane	<25		65	25	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,2-Dichlorobenzene	<22		65	22	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,2-Dichloroethane	<25		65	25	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,2-Dichloropropane	<28		65	28	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,3,5-Trimethylbenzene	<25		65	25	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,3-Dichlorobenzene	<26		65	26	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,3-Dichloropropane	<23		65	23	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
1,4-Dichlorobenzene	<23	*	65	23	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
2,2-Dichloropropane	<29		65	29	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
2-Chlorotoluene	<20		65	20	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
4-Chlorotoluene	<23		65	23	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Benzene	<9.4	*	16	9.4	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Bromobenzene	<23		65	23	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Bromochloromethane	<28		65	28	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Bromodichloromethane	<24		65	24	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Bromoform	<31		65	31	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Bromomethane	<51		190	51	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Carbon tetrachloride	<25		65	25	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Chlorobenzene	<25		65	25	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Chloroethane	<33		65	33	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Chloroform	<24		130	24	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Chloromethane	<21		65	21	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
cis-1,2-Dichloroethene	<26		65	26	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
cis-1,3-Dichloropropene	<27		65	27	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Dibromochloromethane	<31		65	31	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Dibromomethane	<17		65	17	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Dichlorodifluoromethane	<44		190	44	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Ethylbenzene	<12	*	16	12	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Hexachlorobutadiene	<29		65	29	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Isopropyl ether	<18		65	18	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Isopropylbenzene	<25		65	25	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Methyl tert-butyl ether	<25		65	25	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Methylene Chloride	<110	*	320	110	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Naphthalene	<22		65	22	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
n-Butylbenzene	<25	*	65	25	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
N-Propylbenzene	<27		65	27	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
p-Isopropyltoluene	<23		65	23	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
sec-Butylbenzene	<26	*	65	26	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50

Client Sample ID: TW4 0-2.5

Lab Sample ID: 500-180040-7

Date Collected: 03/30/20 11:40
Matrix: Solid
Date Received: 03/31/20 10:35
Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<25	*	65	25	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
tert-Butylbenzene	<26		65	26	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Tetrachloroethene	<24		65	24	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Toluene	<9.5		16	9.5	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
trans-1,2-Dichloroethene	<23		65	23	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
trans-1,3-Dichloropropene	<23		65	23	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Trichloroethene	<11		32	11	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Trichlorofluoromethane	<28		65	28	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Vinyl chloride	<17		65	17	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50
Xylenes, Total	<14		32	14	ug/Kg	☼	03/26/20 11:40	04/08/20 03:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*03/26/20 11:40*	*04/08/20 03:16*	*50*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*03/26/20 11:40*	*04/08/20 03:16*	*50*
Dibromofluoromethane	*95*		*75 - 120*	*03/26/20 11:40*	*04/08/20 03:16*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*03/26/20 11:40*	*04/08/20 03:16*	*50*

Client Sample ID: TW4 2.5-5

Lab Sample ID: 500-180040-8

Date Collected: 03/30/20 11:45
Matrix: Solid
Date Received: 03/31/20 10:35
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		73	34	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,1,1-Trichloroethane	<28		73	28	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,1,2,2-Tetrachloroethane	<29		73	29	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,1,2-Trichloroethane	<26		73	26	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,1-Dichloroethane	<30		73	30	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,1-Dichloroethene	<29		73	29	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,1-Dichloropropene	<22		73	22	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,2,3-Trichlorobenzene	<34		73	34	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,2,3-Trichloropropane	<30		150	30	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,2,4-Trichlorobenzene	<25		73	25	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,2,4-Trimethylbenzene	<26		73	26	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,2-Dibromo-3-Chloropropane	<150		370	150	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,2-Dibromoethane	<28		73	28	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,2-Dichlorobenzene	<24		73	24	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,2-Dichloroethane	<29		73	29	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,2-Dichloropropane	<31		73	31	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,3,5-Trimethylbenzene	<28		73	28	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,3-Dichlorobenzene	<29		73	29	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,3-Dichloropropane	<26		73	26	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
1,4-Dichlorobenzene	<27	*	73	27	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
2,2-Dichloropropane	<32		73	32	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
2-Chlorotoluene	<23		73	23	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
4-Chlorotoluene	<26		73	26	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Benzene	<11	*	18	11	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Bromobenzene	<26		73	26	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Bromochloromethane	<31		73	31	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Bromodichloromethane	<27		73	27	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: TW4 2.5-5

Date Collected: 03/30/20 11:45
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-8

Matrix: Solid
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<35		73	35	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Bromomethane	<58		220	58	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Carbon tetrachloride	<28		73	28	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Chlorobenzene	<28		73	28	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Chloroethane	<37		73	37	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Chloroform	<27		150	27	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Chloromethane	<23		73	23	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
cis-1,2-Dichloroethene	<30		73	30	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
cis-1,3-Dichloropropene	<30		73	30	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Dibromochloromethane	<36		73	36	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Dibromomethane	<20		73	20	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Dichlorodifluoromethane	<49		220	49	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Ethylbenzene	<13	*	18	13	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Hexachlorobutadiene	<33		73	33	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Isopropyl ether	<20		73	20	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Isopropylbenzene	<28		73	28	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Methyl tert-butyl ether	<29		73	29	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Methylene Chloride	<120	*	370	120	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Naphthalene	<24		73	24	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
n-Butylbenzene	<28	*	73	28	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
N-Propylbenzene	<30		73	30	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
p-Isopropyltoluene	<26		73	26	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
sec-Butylbenzene	<29	*	73	29	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Styrene	<28	*	73	28	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
tert-Butylbenzene	<29		73	29	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Tetrachloroethene	**370**		73	27	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Toluene	<11		18	11	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
trans-1,2-Dichloroethene	<26		73	26	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
trans-1,3-Dichloropropene	<26		73	26	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Trichloroethene	**20**	**J**	37	12	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Trichlorofluoromethane	<31		73	31	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Vinyl chloride	<19		73	19	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50
Xylenes, Total	<16		37	16	ug/Kg	☼	03/26/20 11:45	04/08/20 03:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*	*03/26/20 11:45*	*04/08/20 03:42*	*50*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*03/26/20 11:45*	*04/08/20 03:42*	*50*
Dibromofluoromethane	*94*		*75 - 120*	*03/26/20 11:45*	*04/08/20 03:42*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*03/26/20 11:45*	*04/08/20 03:42*	*50*

Client Sample ID: TW4

Date Collected: 03/30/20 12:25
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/07/20 07:38	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/07/20 07:38	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/07/20 07:38	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/07/20 07:38	1

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: TW4
Date Collected: 03/30/20 12:25
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/07/20 07:38	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/07/20 07:38	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/07/20 07:38	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/07/20 07:38	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/07/20 07:38	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/07/20 07:38	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/07/20 07:38	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/07/20 07:38	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/07/20 07:38	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/07/20 07:38	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/07/20 07:38	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/07/20 07:38	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/07/20 07:38	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/07/20 07:38	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/07/20 07:38	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/07/20 07:38	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/07/20 07:38	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/07/20 07:38	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/07/20 07:38	1
Benzene	<0.15		0.50	0.15	ug/L			04/07/20 07:38	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/07/20 07:38	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/07/20 07:38	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/07/20 07:38	1
Bromoform	<0.48		1.0	0.48	ug/L			04/07/20 07:38	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/07/20 07:38	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/07/20 07:38	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/07/20 07:38	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/07/20 07:38	1
Chloroform	<0.37		2.0	0.37	ug/L			04/07/20 07:38	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/07/20 07:38	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/07/20 07:38	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/07/20 07:38	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/07/20 07:38	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/07/20 07:38	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/07/20 07:38	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/07/20 07:38	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/07/20 07:38	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/07/20 07:38	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/07/20 07:38	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/07/20 07:38	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/07/20 07:38	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/07/20 07:38	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/07/20 07:38	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/07/20 07:38	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/07/20 07:38	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/07/20 07:38	1
Styrene	<0.39		1.0	0.39	ug/L			04/07/20 07:38	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/07/20 07:38	1
Tetrachloroethene	**1.6**		1.0	0.37	ug/L			04/07/20 07:38	1

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: TW4

Date Collected: 03/30/20 12:25
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.15		0.50	0.15	ug/L			04/07/20 07:38	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/07/20 07:38	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/07/20 07:38	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/07/20 07:38	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/07/20 07:38	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/07/20 07:38	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/07/20 07:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*04/07/20 07:38*	*1*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*		*04/07/20 07:38*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*04/07/20 07:38*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*04/07/20 07:38*	*1*

Client Sample ID: DUP

Date Collected: 03/30/20 12:26
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/07/20 08:04	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/07/20 08:04	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/07/20 08:04	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/07/20 08:04	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/07/20 08:04	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/07/20 08:04	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/07/20 08:04	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/07/20 08:04	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/07/20 08:04	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/07/20 08:04	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/07/20 08:04	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/07/20 08:04	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/07/20 08:04	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/07/20 08:04	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/07/20 08:04	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/07/20 08:04	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/07/20 08:04	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/07/20 08:04	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/07/20 08:04	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/07/20 08:04	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/07/20 08:04	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/07/20 08:04	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/07/20 08:04	1
Benzene	<0.15		0.50	0.15	ug/L			04/07/20 08:04	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/07/20 08:04	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/07/20 08:04	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/07/20 08:04	1
Bromoform	<0.48		1.0	0.48	ug/L			04/07/20 08:04	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/07/20 08:04	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/07/20 08:04	1

Client Sample ID: DUP

Date Collected: 03/30/20 12:26
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/07/20 08:04	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/07/20 08:04	1
Chloroform	<0.37		2.0	0.37	ug/L			04/07/20 08:04	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/07/20 08:04	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/07/20 08:04	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/07/20 08:04	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/07/20 08:04	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/07/20 08:04	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/07/20 08:04	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/07/20 08:04	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/07/20 08:04	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/07/20 08:04	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/07/20 08:04	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/07/20 08:04	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/07/20 08:04	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/07/20 08:04	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/07/20 08:04	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/07/20 08:04	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/07/20 08:04	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/07/20 08:04	1
Styrene	<0.39		1.0	0.39	ug/L			04/07/20 08:04	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/07/20 08:04	1
Tetrachloroethene	**1.7**		1.0	0.37	ug/L			04/07/20 08:04	1
Toluene	<0.15		0.50	0.15	ug/L			04/07/20 08:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/07/20 08:04	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/07/20 08:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/07/20 08:04	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/07/20 08:04	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/07/20 08:04	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/07/20 08:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*04/07/20 08:04*	*1*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*04/07/20 08:04*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*04/07/20 08:04*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*04/07/20 08:04*	*1*

Client Sample ID: TW7 0-2.5

Date Collected: 03/30/20 12:35
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-11
Matrix: Solid
Percent Solids: 97.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<81		670	81	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
2-Methylnaphthalene	**61**	**J**	670	61	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Acenaphthene	**91**	**J**	330	59	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Acenaphthylene	**1400**		330	43	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Anthracene	**1200**		330	55	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Benzo[a]anthracene	**4500**		330	44	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Benzo[a]pyrene	**4800**		330	64	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10

Client Sample ID: TW7 0-2.5

Lab Sample ID: 500-180040-11
Date Collected: 03/30/20 12:35
Matrix: Solid
Date Received: 03/31/20 10:35
Percent Solids: 97.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**6700**		330	71	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Benzo[g,h,i]perylene	**1900**		330	110	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Benzo[k]fluoranthene	**2900**		330	97	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Chrysene	**4600**		330	90	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Dibenz(a,h)anthracene	**730**		330	64	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Fluoranthene	**7500**		330	61	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Fluorene	**420**		330	46	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Indeno[1,2,3-cd]pyrene	**1400**		330	85	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Naphthalene	**72**	**J**	330	51	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Phenanthrene	**3900**		330	46	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10
Pyrene	**7300**		330	66	ug/Kg	☼	04/09/20 18:16	04/10/20 20:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*43 - 145*	*04/09/20 18:16*	*04/10/20 20:55*	*10*
Nitrobenzene-d5 (Surr)	*73*		*37 - 147*	*04/09/20 18:16*	*04/10/20 20:55*	*10*
Terphenyl-d14 (Surr)	*122*		*42 - 157*	*04/09/20 18:16*	*04/10/20 20:55*	*10*

Client Sample ID: TW7 5-7.5

Lab Sample ID: 500-180040-12
Date Collected: 03/30/20 12:40
Matrix: Solid
Date Received: 03/31/20 10:35
Percent Solids: 93.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.3		69	8.3	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
2-Methylnaphthalene	<6.3		69	6.3	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Acenaphthene	<6.1		34	6.1	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Acenaphthylene	<4.5		34	4.5	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Anthracene	<5.7		34	5.7	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Benzo[a]anthracene	**5.8**	**J**	34	4.6	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Benzo[a]pyrene	<6.6		34	6.6	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Benzo[b]fluoranthene	<7.3		34	7.3	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Benzo[g,h,i]perylene	<11		34	11	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Benzo[k]fluoranthene	<10		34	10	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Chrysene	<9.3		34	9.3	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Dibenz(a,h)anthracene	<6.6		34	6.6	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Fluoranthene	**16**	**J**	34	6.3	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Fluorene	<4.8		34	4.8	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Indeno[1,2,3-cd]pyrene	<8.8		34	8.8	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Naphthalene	<5.2		34	5.2	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Phenanthrene	**14**	**J**	34	4.7	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1
Pyrene	**15**	**J**	34	6.8	ug/Kg	☼	04/09/20 18:16	04/10/20 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*43 - 145*	*04/09/20 18:16*	*04/10/20 15:23*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*04/09/20 18:16*	*04/10/20 15:23*	*1*
Terphenyl-d14 (Surr)	*106*		*42 - 157*	*04/09/20 18:16*	*04/10/20 15:23*	*1*

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: TW7

Date Collected: 03/30/20 12:50
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-13

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.30		2.0	0.30	ug/L		04/01/20 08:16	04/01/20 20:00	1
2-Methylnaphthalene	<0.064		2.0	0.064	ug/L		04/01/20 08:16	04/01/20 20:00	1
Acenaphthene	<0.30		0.99	0.30	ug/L		04/01/20 08:16	04/01/20 20:00	1
Acenaphthylene	<0.26		0.99	0.26	ug/L		04/01/20 08:16	04/01/20 20:00	1
Anthracene	<0.33		0.99	0.33	ug/L		04/01/20 08:16	04/01/20 20:00	1
Benzo[a]anthracene	**0.30**		0.20	0.056	ug/L		04/01/20 08:16	04/01/20 20:00	1
Benzo[a]pyrene	**0.56**		0.20	0.098	ug/L		04/01/20 08:16	04/01/20 20:00	1
Benzo[b]fluoranthene	**0.56**		0.20	0.080	ug/L		04/01/20 08:16	04/01/20 20:00	1
Benzo[g,h,i]perylene	<0.37		0.99	0.37	ug/L		04/01/20 08:16	04/01/20 20:00	1
Benzo[k]fluoranthene	**0.35**		0.20	0.063	ug/L		04/01/20 08:16	04/01/20 20:00	1
Chrysene	**0.26**		0.20	0.067	ug/L		04/01/20 08:16	04/01/20 20:00	1
Dibenz(a,h)anthracene	**0.16**	**J**	0.30	0.050	ug/L		04/01/20 08:16	04/01/20 20:00	1
Fluoranthene	**0.52**	**J**	0.99	0.45	ug/L		04/01/20 08:16	04/01/20 20:00	1
Fluorene	<0.24		0.99	0.24	ug/L		04/01/20 08:16	04/01/20 20:00	1
Indeno[1,2,3-cd]pyrene	**0.34**		0.20	0.074	ug/L		04/01/20 08:16	04/01/20 20:00	1
Naphthalene	<0.30		0.99	0.30	ug/L		04/01/20 08:16	04/01/20 20:00	1
Phenanthrene	**0.36**	**J**	0.99	0.30	ug/L		04/01/20 08:16	04/01/20 20:00	1
Pyrene	<0.42		0.99	0.42	ug/L		04/01/20 08:16	04/01/20 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*34 - 110*	*04/01/20 08:16*	*04/01/20 20:00*	*1*
Nitrobenzene-d5 (Surr)	*56*		*36 - 120*	*04/01/20 08:16*	*04/01/20 20:00*	*1*
Terphenyl-d14 (Surr)	*97*		*40 - 145*	*04/01/20 08:16*	*04/01/20 20:00*	*1*

Client Sample ID: HCL TB

Date Collected: 03/30/20 00:00
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-14

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/07/20 08:29	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/07/20 08:29	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/07/20 08:29	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/07/20 08:29	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/07/20 08:29	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/07/20 08:29	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/07/20 08:29	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/07/20 08:29	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/07/20 08:29	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/07/20 08:29	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/07/20 08:29	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/07/20 08:29	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/07/20 08:29	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/07/20 08:29	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/07/20 08:29	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/07/20 08:29	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/07/20 08:29	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/07/20 08:29	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/07/20 08:29	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/07/20 08:29	1

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: HCL TB
Date Collected: 03/30/20 00:00
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/07/20 08:29	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/07/20 08:29	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/07/20 08:29	1
Benzene	<0.15		0.50	0.15	ug/L			04/07/20 08:29	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/07/20 08:29	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/07/20 08:29	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/07/20 08:29	1
Bromoform	<0.48		1.0	0.48	ug/L			04/07/20 08:29	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/07/20 08:29	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/07/20 08:29	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/07/20 08:29	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/07/20 08:29	1
Chloroform	<0.37		2.0	0.37	ug/L			04/07/20 08:29	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/07/20 08:29	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/07/20 08:29	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/07/20 08:29	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/07/20 08:29	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/07/20 08:29	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/07/20 08:29	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/07/20 08:29	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/07/20 08:29	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/07/20 08:29	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/07/20 08:29	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/07/20 08:29	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/07/20 08:29	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/07/20 08:29	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/07/20 08:29	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/07/20 08:29	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/07/20 08:29	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/07/20 08:29	1
Styrene	<0.39		1.0	0.39	ug/L			04/07/20 08:29	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/07/20 08:29	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/07/20 08:29	1
Toluene	<0.15		0.50	0.15	ug/L			04/07/20 08:29	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/07/20 08:29	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/07/20 08:29	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/07/20 08:29	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/07/20 08:29	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/07/20 08:29	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/07/20 08:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*04/07/20 08:29*	*1*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*		*04/07/20 08:29*	*1*
Dibromofluoromethane	*103*		*75 - 120*		*04/07/20 08:29*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/07/20 08:29*	*1*

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: MeOH TB
Date Collected: 03/30/20 00:00
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-15
Matrix: Solid
Percent Solids: 100.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23	*	50	23	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,1-Dichloroethane	<21		50	21	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,1-Dichloroethene	<20		50	20	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,1-Dichloropropene	<15		50	15	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,2-Dibromoethane	<19	*	50	19	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,2-Dichloroethane	<20	*	50	20	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,2-Dichloropropane	<21		50	21	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
4-Chlorotoluene	<18		50	18	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Benzene	<7.3		13	7.3	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Bromobenzene	<18		50	18	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Bromochloromethane	<21	*	50	21	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Bromodichloromethane	<19	*	50	19	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Bromoform	<24	*	50	24	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Bromomethane	<40		150	40	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Carbon tetrachloride	<19		50	19	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Chlorobenzene	<19	*	50	19	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Chloroethane	<25		50	25	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Chloroform	<19	*	100	19	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Chloromethane	<16		50	16	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
cis-1,2-Dichloroethene	<20	*	50	20	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Dibromochloromethane	<24	*	50	24	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Dibromomethane	<14	*	50	14	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Dichlorodifluoromethane	<34		150	34	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Ethylbenzene	<9.2		13	9.2	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Hexachlorobutadiene	<22		50	22	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Isopropyl ether	<14		50	14	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Isopropylbenzene	<19		50	19	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Methyl tert-butyl ether	<20	*	50	20	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Methylene Chloride	<82	*	250	82	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Naphthalene	<17		50	17	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
n-Butylbenzene	<19		50	19	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: MeOH TB
Date Collected: 03/30/20 00:00
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-15
Matrix: Solid
Percent Solids: 100.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Styrene	<19		50	19	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Tetrachloroethene	<19		50	19	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Toluene	<7.4		13	7.4	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Trichloroethene	<8.2	*	25	8.2	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Trichlorofluoromethane	<21		50	21	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Vinyl chloride	<13		50	13	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50
Xylenes, Total	<11		25	11	ug/Kg	☼	03/30/20 00:00	04/08/20 04:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*	*03/30/20 00:00*	*04/08/20 04:08*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*03/30/20 00:00*	*04/08/20 04:08*	*50*
Dibromofluoromethane	*96*		*75 - 120*	*03/30/20 00:00*	*04/08/20 04:08*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*03/30/20 00:00*	*04/08/20 04:08*	*50*

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 536581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-180040-1	TW6 0-2.5	Total/NA	Solid	5035	
500-180040-2	TW6 2.5-5	Total/NA	Solid	5035	
500-180040-4	TW5 0-2.5	Total/NA	Solid	5035	
500-180040-5	TW5 2.5-5	Total/NA	Solid	5035	
500-180040-7	TW4 0-2.5	Total/NA	Solid	5035	
500-180040-8	TW4 2.5-5	Total/NA	Solid	5035	
LB3 500-536581/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-536581/22-A	Lab Control Sample	Total/NA	Solid	5035	
500-180040-1 MS	TW6 0-2.5	Total/NA	Solid	5035	
500-180040-1 MSD	TW6 0-2.5	Total/NA	Solid	5035	

Prep Batch: 536783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-180040-15	MeOH TB	Total/NA	Solid	5035	
LB3 500-536783/17-A	Method Blank	Total/NA	Solid	5035	
LCS 500-536783/18-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 536810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-536783/17-A	Method Blank	Total/NA	Solid	8260B	536783
MB 500-536810/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-536783/18-A	Lab Control Sample	Total/NA	Solid	8260B	536783
LCS 500-536810/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 536979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-180040-3	TW6	Total/NA	Water	8260B	
500-180040-6	TW5	Total/NA	Water	8260B	
500-180040-6 - DL	TW5	Total/NA	Water	8260B	
500-180040-9	TW4	Total/NA	Water	8260B	
500-180040-10	DUP	Total/NA	Water	8260B	
500-180040-14	HCL TB	Total/NA	Water	8260B	
MB 500-536979/6	Method Blank	Total/NA	Water	8260B	
LCS 500-536979/4	Lab Control Sample	Total/NA	Water	8260B	
500-180040-3 MS	TW6	Total/NA	Water	8260B	
500-180040-3 MSD	TW6	Total/NA	Water	8260B	

Analysis Batch: 537159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-180040-1	TW6 0-2.5	Total/NA	Solid	8260B	536581
500-180040-2	TW6 2.5-5	Total/NA	Solid	8260B	536581
500-180040-4	TW5 0-2.5	Total/NA	Solid	8260B	536581
500-180040-5	TW5 2.5-5	Total/NA	Solid	8260B	536581
500-180040-7	TW4 0-2.5	Total/NA	Solid	8260B	536581
500-180040-8	TW4 2.5-5	Total/NA	Solid	8260B	536581
500-180040-15	MeOH TB	Total/NA	Solid	8260B	536783
LB3 500-536581/21-A	Method Blank	Total/NA	Solid	8260B	536581
MB 500-537159/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-536581/22-A	Lab Control Sample	Total/NA	Solid	8260B	536581
LCS 500-537159/4	Lab Control Sample	Total/NA	Solid	8260B	
500-180040-1 MS	TW6 0-2.5	Total/NA	Solid	8260B	536581

GC/MS VOA (Continued)

Analysis Batch: 537159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-180040-1 MSD	TW6 0-2.5	Total/NA	Solid	8260B	536581

GC/MS Semi VOA

Prep Batch: 536296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-180040-13	TW7	Total/NA	Water	3510C	
MB 500-536296/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-536296/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-536296/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 536331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-180040-13	TW7	Total/NA	Water	8270D	536296
MB 500-536296/1-A	Method Blank	Total/NA	Water	8270D	536296
LCS 500-536296/2-A	Lab Control Sample	Total/NA	Water	8270D	536296
LCSD 500-536296/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	536296

Prep Batch: 537532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-180040-11	TW7 0-2.5	Total/NA	Solid	3541	
500-180040-12	TW7 5-7.5	Total/NA	Solid	3541	
MB 500-537532/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-537532/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 537620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-180040-11	TW7 0-2.5	Total/NA	Solid	8270D	537532
500-180040-12	TW7 5-7.5	Total/NA	Solid	8270D	537532
MB 500-537532/1-A	Method Blank	Total/NA	Solid	8270D	537532
LCS 500-537532/2-A	Lab Control Sample	Total/NA	Solid	8270D	537532

General Chemistry

Analysis Batch: 536511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-180040-1	TW6 0-2.5	Total/NA	Solid	Moisture	
500-180040-2	TW6 2.5-5	Total/NA	Solid	Moisture	
500-180040-4	TW5 0-2.5	Total/NA	Solid	Moisture	
500-180040-5	TW5 2.5-5	Total/NA	Solid	Moisture	
500-180040-7	TW4 0-2.5	Total/NA	Solid	Moisture	
500-180040-8	TW4 2.5-5	Total/NA	Solid	Moisture	
500-180040-11	TW7 0-2.5	Total/NA	Solid	Moisture	
500-180040-12	TW7 5-7.5	Total/NA	Solid	Moisture	
500-180040-15	MeOH TB	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-180040-1	TW6 0-2.5	91	94	94	100
500-180040-1 MS	TW6 0-2.5	88	94	94	99
500-180040-1 MSD	TW6 0-2.5	90	96	95	99
500-180040-2	TW6 2.5-5	90	93	91	101
500-180040-4	TW5 0-2.5	91	94	93	99
500-180040-5	TW5 2.5-5	92	94	95	99
500-180040-7	TW4 0-2.5	91	94	95	100
500-180040-8	TW4 2.5-5	90	94	94	101
500-180040-15	MeOH TB	93	95	96	97
LB3 500-536581/21-A	Method Blank	92	95	93	98
LB3 500-536783/17-A	Method Blank	94	87	102	104
LCS 500-536581/22-A	Lab Control Sample	88	95	95	98
LCS 500-536783/18-A	Lab Control Sample	107	91	114	98
LCS 500-536810/4	Lab Control Sample	97	90	107	103
LCS 500-537159/4	Lab Control Sample	88	94	94	99
MB 500-536810/6	Method Blank	99	85	106	103
MB 500-537159/6	Method Blank	91	100	94	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-180040-3	TW6	97	112	99	98
500-180040-3 MS	TW6	95	102	98	97
500-180040-3 MSD	TW6	98	96	98	101
500-180040-6	TW5	98	114	101	98
500-180040-6 - DL	TW5	99	112	99	102
500-180040-9	TW4	96	109	100	97
500-180040-10	DUP	97	108	94	101
500-180040-14	HCL TB	98	112	103	100
LCS 500-536979/4	Lab Control Sample	94	99	104	95
MB 500-536979/6	Method Blank	95	109	97	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Job ID: 500-180040-1
Project/Site: 24. 28. 32 S. Main St.- 19376313

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(43-145)	(37-147)	(42-157)
500-180040-11	TW7 0-2.5	100	73	122
500-180040-12	TW7 5-7.5	87	67	106
LCS 500-537532/2-A	Lab Control Sample	100	87	111
MB 500-537532/1-A	Method Blank	94	85	123

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(34-110)	(36-120)	(40-145)
500-180040-13	TW7	65	56	97
LCS 500-536296/2-A	Lab Control Sample	96	84	106
LCSD 500-536296/3-A	Lab Control Sample Dup	91	81	103
MB 500-536296/1-A	Method Blank	94	83	107

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-536581/21-A
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 536581

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,1-Dichloroethane	<21		50	21	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,1-Dichloroethene	<20		50	20	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,1-Dichloropropene	<15		50	15	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,2-Dibromoethane	<19		50	19	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,2-Dichloroethane	<20		50	20	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,2-Dichloropropane	<21		50	21	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,3-Dichloropropane	<18		50	18	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
2,2-Dichloropropane	<22		50	22	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
2-Chlorotoluene	<16		50	16	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
4-Chlorotoluene	<18		50	18	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Benzene	<7.3		13	7.3	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Bromobenzene	<18		50	18	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Bromochloromethane	<21		50	21	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Bromodichloromethane	<19		50	19	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Bromoform	<24		50	24	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Bromomethane	<40		150	40	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Carbon tetrachloride	<19		50	19	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Chlorobenzene	<19		50	19	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Chloroethane	<25		50	25	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Chloroform	<19		100	19	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Chloromethane	<16		50	16	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Dibromochloromethane	<24		50	24	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Dibromomethane	<14		50	14	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Hexachlorobutadiene	<22		50	22	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Isopropyl ether	<14		50	14	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Isopropylbenzene	<19		50	19	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Methylene Chloride	234	J	250	82	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Naphthalene	<17		50	17	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
n-Butylbenzene	<19		50	19	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
N-Propylbenzene	<21		50	21	ug/Kg		04/02/20 23:00	04/08/20 01:04	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-536581/21-A
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 536581

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<18		50	18	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
sec-Butylbenzene	<20		50	20	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Styrene	<19		50	19	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
tert-Butylbenzene	<20		50	20	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Tetrachloroethene	<19		50	19	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Toluene	<7.4		13	7.4	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Trichloroethene	<8.2		25	8.2	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Trichlorofluoromethane	<21		50	21	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Vinyl chloride	<13		50	13	ug/Kg		04/02/20 23:00	04/08/20 01:04	50
Xylenes, Total	<11		25	11	ug/Kg		04/02/20 23:00	04/08/20 01:04	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*	*04/02/20 23:00*	*04/08/20 01:04*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*04/02/20 23:00*	*04/08/20 01:04*	*50*
Dibromofluoromethane	*93*		*75 - 120*	*04/02/20 23:00*	*04/08/20 01:04*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*04/02/20 23:00*	*04/08/20 01:04*	*50*

Lab Sample ID: LCS 500-536581/22-A
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 536581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2750		ug/Kg		110	70 - 125
1,1,1-Trichloroethane	2500	2880		ug/Kg		115	70 - 125
1,1,2,2-Tetrachloroethane	2500	3300		ug/Kg		132	62 - 140
1,1,2-Trichloroethane	2500	3130		ug/Kg		125	71 - 130
1,1-Dichloroethane	2500	3030		ug/Kg		121	70 - 125
1,1-Dichloroethene	2500	3020		ug/Kg		121	67 - 122
1,1-Dichloropropene	2500	2940		ug/Kg		118	70 - 121
1,2,3-Trichlorobenzene	2500	3020		ug/Kg		121	51 - 145
1,2,3-Trichloropropane	2500	3170		ug/Kg		127	50 - 133
1,2,4-Trichlorobenzene	2500	2980		ug/Kg		119	57 - 137
1,2,4-Trimethylbenzene	2500	3050		ug/Kg		122	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2580		ug/Kg		103	56 - 123
1,2-Dibromoethane	2500	3070		ug/Kg		123	70 - 125
1,2-Dichlorobenzene	2500	3020		ug/Kg		121	70 - 125
1,2-Dichloroethane	2500	2650		ug/Kg		106	68 - 127
1,2-Dichloropropane	2500	3150		ug/Kg		126	67 - 130
1,3,5-Trimethylbenzene	2500	3040		ug/Kg		121	70 - 123
1,3-Dichlorobenzene	2500	3040		ug/Kg		122	70 - 125
1,3-Dichloropropane	2500	3030		ug/Kg		121	62 - 136
1,4-Dichlorobenzene	2500	3020	*	ug/Kg		121	70 - 120
2,2-Dichloropropane	2500	2610		ug/Kg		104	58 - 139
2-Chlorotoluene	2500	3010		ug/Kg		121	70 - 125
4-Chlorotoluene	2500	3030		ug/Kg		121	68 - 124
Benzene	2500	3150	*	ug/Kg		126	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-536581/22-A
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 536581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2990		ug/Kg		119	70 - 122
Bromochloromethane	2500	3010		ug/Kg		121	65 - 122
Bromodichloromethane	2500	2960		ug/Kg		119	69 - 120
Bromoform	2500	2740		ug/Kg		110	56 - 132
Bromomethane	2500	2930		ug/Kg		117	40 - 152
Carbon tetrachloride	2500	2750		ug/Kg		110	59 - 133
Chlorobenzene	2500	2980		ug/Kg		119	70 - 120
Chloroethane	2500	2580		ug/Kg		103	48 - 136
Chloroform	2500	2890		ug/Kg		116	70 - 120
Chloromethane	2500	2780		ug/Kg		111	56 - 152
cis-1,2-Dichloroethene	2500	3100		ug/Kg		124	70 - 125
cis-1,3-Dichloropropene	2500	2820		ug/Kg		113	64 - 127
Dibromochloromethane	2500	2850		ug/Kg		114	68 - 125
Dibromomethane	2500	3010		ug/Kg		120	70 - 120
Dichlorodifluoromethane	2500	1600		ug/Kg		64	40 - 159
Ethylbenzene	2500	3160	*	ug/Kg		127	70 - 123
Hexachlorobutadiene	2500	2590		ug/Kg		104	51 - 150
Isopropylbenzene	2500	3150		ug/Kg		126	70 - 126
Methyl tert-butyl ether	2500	2640		ug/Kg		106	55 - 123
Methylene Chloride	2500	3380	*	ug/Kg		135	69 - 125
Naphthalene	2500	2900		ug/Kg		116	53 - 144
n-Butylbenzene	2500	3170	*	ug/Kg		127	68 - 125
N-Propylbenzene	2500	3170		ug/Kg		127	69 - 127
p-Isopropyltoluene	2500	3020		ug/Kg		121	70 - 125
sec-Butylbenzene	2500	3110	*	ug/Kg		125	70 - 123
Styrene	2500	3110	*	ug/Kg		124	70 - 120
tert-Butylbenzene	2500	2920		ug/Kg		117	70 - 121
Tetrachloroethene	2500	2980		ug/Kg		119	70 - 128
Toluene	2500	3100		ug/Kg		124	70 - 125
trans-1,2-Dichloroethene	2500	3080		ug/Kg		123	70 - 125
trans-1,3-Dichloropropene	2500	2730		ug/Kg		109	62 - 128
Trichloroethene	2500	3050		ug/Kg		122	70 - 125
Trichlorofluoromethane	2500	2960		ug/Kg		118	55 - 128
Vinyl chloride	2500	2940		ug/Kg		118	64 - 126
Xylenes, Total	5000	5870		ug/Kg		117	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*
Dibromofluoromethane	*95*		*75 - 120*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Sample ID: 500-180040-1 MS
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: TW6 0-2.5
Prep Type: Total/NA
Prep Batch: 536581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<33		3580	2910		ug/Kg	☼	81	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-180040-1 MS
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: TW6 0-2.5
Prep Type: Total/NA
Prep Batch: 536581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<27		3580	2830		ug/Kg	☼	79	70 - 125
1,1,2,2-Tetrachloroethane	<28		3580	3570		ug/Kg	☼	100	62 - 140
1,1,2-Trichloroethane	<25		3580	3410		ug/Kg	☼	95	71 - 130
1,1-Dichloroethane	<29		3580	3140		ug/Kg	☼	88	70 - 125
1,1-Dichloroethene	<28		3580	3070		ug/Kg	☼	86	67 - 122
1,1-Dichloropropene	<21		3580	2910		ug/Kg	☼	81	70 - 121
1,2,3-Trichlorobenzene	<33		3580	2740		ug/Kg	☼	77	51 - 145
1,2,3-Trichloropropane	<30		3580	3500		ug/Kg	☼	98	50 - 133
1,2,4-Trichlorobenzene	<24		3580	2800		ug/Kg	☼	78	57 - 137
1,2,4-Trimethylbenzene	<26		3580	3260		ug/Kg	☼	91	70 - 123
1,2-Dibromo-3-Chloropropane	<140		3580	2470		ug/Kg	☼	69	56 - 123
1,2-Dibromoethane	<28		3580	3320		ug/Kg	☼	93	70 - 125
1,2-Dichlorobenzene	<24		3580	3220		ug/Kg	☼	90	70 - 125
1,2-Dichloroethane	<28		3580	2800		ug/Kg	☼	78	68 - 127
1,2-Dichloropropane	<31		3580	3410		ug/Kg	☼	95	67 - 130
1,3,5-Trimethylbenzene	<27		3580	3200		ug/Kg	☼	90	70 - 123
1,3-Dichlorobenzene	<29		3580	3180		ug/Kg	☼	89	70 - 125
1,3-Dichloropropane	<26		3580	3300		ug/Kg	☼	92	62 - 136
1,4-Dichlorobenzene	<26	*	3580	3140		ug/Kg	☼	88	70 - 120
2,2-Dichloropropane	<32		3580	2500		ug/Kg	☼	70	58 - 139
2-Chlorotoluene	<22		3580	3220		ug/Kg	☼	90	70 - 125
4-Chlorotoluene	<25		3580	3190		ug/Kg	☼	89	68 - 124
Benzene	<10	*	3580	3290		ug/Kg	☼	92	70 - 120
Bromobenzene	<25		3580	3240		ug/Kg	☼	90	70 - 122
Bromochloromethane	<31		3580	3240		ug/Kg	☼	91	65 - 122
Bromodichloromethane	<27		3580	3130		ug/Kg	☼	87	69 - 120
Bromoform	<35		3580	2940		ug/Kg	☼	82	56 - 132
Bromomethane	<57		3580	3550		ug/Kg	☼	99	40 - 152
Carbon tetrachloride	<27		3580	2710		ug/Kg	☼	76	59 - 133
Chlorobenzene	<28		3580	3140		ug/Kg	☼	88	70 - 120
Chloroethane	<36		3580	3160		ug/Kg	☼	88	48 - 136
Chloroform	<26		3580	2960		ug/Kg	☼	83	70 - 120
Chloromethane	<23		3580	3930		ug/Kg	☼	110	56 - 152
cis-1,2-Dichloroethene	<29		3580	3240		ug/Kg	☼	90	70 - 125
cis-1,3-Dichloropropene	<30		3580	2960		ug/Kg	☼	83	64 - 127
Dibromochloromethane	<35		3580	3050		ug/Kg	☼	85	68 - 125
Dibromomethane	<19		3580	3160		ug/Kg	☼	88	70 - 120
Dichlorodifluoromethane	<48		3580	3080		ug/Kg	☼	86	40 - 159
Ethylbenzene	<13	*	3580	3250		ug/Kg	☼	91	70 - 123
Hexachlorobutadiene	<32		3580	2590		ug/Kg	☼	72	51 - 150
Isopropylbenzene	<27		3580	3250		ug/Kg	☼	91	70 - 126
Methyl tert-butyl ether	<28		3580	2740		ug/Kg	☼	77	55 - 123
Methylene Chloride	<120	*	3580	3320		ug/Kg	☼	93	69 - 125
Naphthalene	<24		3580	2670		ug/Kg	☼	75	53 - 144
n-Butylbenzene	<28	*	3580	3120		ug/Kg	☼	87	68 - 125
N-Propylbenzene	<30		3580	3210		ug/Kg	☼	90	69 - 127
p-Isopropyltoluene	<26		3580	3050		ug/Kg	☼	85	70 - 125
sec-Butylbenzene	<28	*	3580	3160		ug/Kg	☼	88	70 - 123
Styrene	<28	*	3580	3300		ug/Kg	☼	92	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-180040-1 MS
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: TW6 0-2.5
Prep Type: Total/NA
Prep Batch: 536581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	<28		3580	3020		ug/Kg	☼	84	70 - 121
Tetrachloroethene	<26		3580	2950		ug/Kg	☼	82	70 - 128
Toluene	<11		3580	3290		ug/Kg	☼	92	70 - 125
trans-1,2-Dichloroethene	<25		3580	3160		ug/Kg	☼	88	70 - 125
trans-1,3-Dichloropropene	<26		3580	2870		ug/Kg	☼	80	62 - 128
Trichloroethene	<12		3580	3080		ug/Kg	☼	86	70 - 125
Trichlorofluoromethane	<31		3580	3150		ug/Kg	☼	88	55 - 128
Vinyl chloride	<19		3580	3630		ug/Kg	☼	101	64 - 126
Xylenes, Total	<16		7160	6070		ug/Kg	☼	85	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*94*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: 500-180040-1 MSD
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: TW6 0-2.5
Prep Type: Total/NA
Prep Batch: 536581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<33		3580	2960		ug/Kg	☼	83	70 - 125	2	30
1,1,1-Trichloroethane	<27		3580	2920		ug/Kg	☼	82	70 - 125	3	30
1,1,2,2-Tetrachloroethane	<28		3580	3660		ug/Kg	☼	102	62 - 140	3	30
1,1,2-Trichloroethane	<25		3580	3520		ug/Kg	☼	98	71 - 130	3	30
1,1-Dichloroethane	<29		3580	3200		ug/Kg	☼	89	70 - 125	2	30
1,1-Dichloroethene	<28		3580	3190		ug/Kg	☼	89	67 - 122	4	30
1,1-Dichloropropene	<21		3580	3010		ug/Kg	☼	84	70 - 121	3	30
1,2,3-Trichlorobenzene	<33		3580	3480		ug/Kg	☼	97	51 - 145	24	30
1,2,3-Trichloropropane	<30		3580	3430		ug/Kg	☼	96	50 - 133	2	30
1,2,4-Trichlorobenzene	<24		3580	3110		ug/Kg	☼	87	57 - 137	10	30
1,2,4-Trimethylbenzene	<26		3580	3260		ug/Kg	☼	91	70 - 123	0	30
1,2-Dibromo-3-Chloropropane	<140		3580	2780		ug/Kg	☼	78	56 - 123	12	30
1,2-Dibromoethane	<28		3580	3350		ug/Kg	☼	94	70 - 125	1	30
1,2-Dichlorobenzene	<24		3580	3270		ug/Kg	☼	91	70 - 125	1	30
1,2-Dichloroethane	<28		3580	2890		ug/Kg	☼	81	68 - 127	3	30
1,2-Dichloropropane	<31		3580	3500		ug/Kg	☼	98	67 - 130	3	30
1,3,5-Trimethylbenzene	<27		3580	3270		ug/Kg	☼	91	70 - 123	2	30
1,3-Dichlorobenzene	<29		3580	3230		ug/Kg	☼	90	70 - 125	2	30
1,3-Dichloropropane	<26		3580	3280		ug/Kg	☼	92	62 - 136	0	30
1,4-Dichlorobenzene	<26	*	3580	3170		ug/Kg	☼	89	70 - 120	1	30
2,2-Dichloropropane	<32		3580	2500		ug/Kg	☼	70	58 - 139	0	30
2-Chlorotoluene	<22		3580	3240		ug/Kg	☼	90	70 - 125	1	30
4-Chlorotoluene	<25		3580	3240		ug/Kg	☼	90	68 - 124	1	30
Benzene	<10	*	3580	3340		ug/Kg	☼	93	70 - 120	2	30
Bromobenzene	<25		3580	3280		ug/Kg	☼	92	70 - 122	1	30
Bromochloromethane	<31		3580	3240		ug/Kg	☼	91	65 - 122	0	30
Bromodichloromethane	<27		3580	3140		ug/Kg	☼	88	69 - 120	0	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-180040-1 MSD
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: TW6 0-2.5
Prep Type: Total/NA
Prep Batch: 536581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	<35		3580	3040		ug/Kg	☼	85	56 - 132	3	30
Bromomethane	<57		3580	3620		ug/Kg	☼	101	40 - 152	2	30
Carbon tetrachloride	<27		3580	2810		ug/Kg	☼	79	59 - 133	4	30
Chlorobenzene	<28		3580	3190		ug/Kg	☼	89	70 - 120	2	30
Chloroethane	<36		3580	2900		ug/Kg	☼	81	48 - 136	8	30
Chloroform	<26		3580	2970		ug/Kg	☼	83	70 - 120	0	30
Chloromethane	<23		3580	3930		ug/Kg	☼	110	56 - 152	0	30
cis-1,2-Dichloroethene	<29		3580	3260		ug/Kg	☼	91	70 - 125	1	30
cis-1,3-Dichloropropene	<30		3580	3020		ug/Kg	☼	84	64 - 127	2	30
Dibromochloromethane	<35		3580	3100		ug/Kg	☼	87	68 - 125	2	30
Dibromomethane	<19		3580	3160		ug/Kg	☼	88	70 - 120	0	30
Dichlorodifluoromethane	<48		3580	3130		ug/Kg	☼	87	40 - 159	1	30
Ethylbenzene	<13	*	3580	3320		ug/Kg	☼	93	70 - 123	2	30
Hexachlorobutadiene	<32		3580	2650		ug/Kg	☼	74	51 - 150	2	30
Isopropylbenzene	<27		3580	3320		ug/Kg	☼	93	70 - 126	2	30
Methyl tert-butyl ether	<28		3580	2810		ug/Kg	☼	79	55 - 123	3	30
Methylene Chloride	<120	*	3580	3400		ug/Kg	☼	95	69 - 125	2	30
Naphthalene	<24		3580	3220		ug/Kg	☼	90	53 - 144	18	30
n-Butylbenzene	<28	*	3580	3170		ug/Kg	☼	89	68 - 125	2	30
N-Propylbenzene	<30		3580	3300		ug/Kg	☼	92	69 - 127	3	30
p-Isopropyltoluene	<26		3580	3110		ug/Kg	☼	87	70 - 125	2	30
sec-Butylbenzene	<28	*	3580	3260		ug/Kg	☼	91	70 - 123	3	30
Styrene	<28	*	3580	3320		ug/Kg	☼	93	70 - 120	1	30
tert-Butylbenzene	<28		3580	3090		ug/Kg	☼	86	70 - 121	2	30
Tetrachloroethene	<26		3580	3100		ug/Kg	☼	86	70 - 128	5	30
Toluene	<11		3580	3330		ug/Kg	☼	93	70 - 125	1	30
trans-1,2-Dichloroethene	<25		3580	3190		ug/Kg	☼	89	70 - 125	1	30
trans-1,3-Dichloropropene	<26		3580	2890		ug/Kg	☼	81	62 - 128	1	30
Trichloroethene	<12		3580	3200		ug/Kg	☼	89	70 - 125	4	30
Trichlorofluoromethane	<31		3580	3290		ug/Kg	☼	92	55 - 128	4	30
Vinyl chloride	<19		3580	3670		ug/Kg	☼	103	64 - 126	1	30
Xylenes, Total	<16		7160	6170		ug/Kg	☼	86	70 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*
Dibromofluoromethane	*95*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: LB3 500-536783/17-A
Matrix: Solid
Analysis Batch: 536810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 536783

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		04/04/20 15:30	04/06/20 10:31	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-536783/17-A
Matrix: Solid
Analysis Batch: 536810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 536783

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<21		50	21	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,1-Dichloroethene	<20		50	20	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,1-Dichloropropene	<15		50	15	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,2-Dibromoethane	<19		50	19	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,2-Dichloroethane	<20		50	20	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,2-Dichloropropane	<21		50	21	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,3-Dichloropropane	<18		50	18	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
2,2-Dichloropropane	<22		50	22	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
2-Chlorotoluene	<16		50	16	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
4-Chlorotoluene	<18		50	18	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Benzene	<7.3		13	7.3	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Bromobenzene	<18		50	18	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Bromochloromethane	<21		50	21	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Bromodichloromethane	<19		50	19	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Bromoform	<24		50	24	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Bromomethane	<40		150	40	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Carbon tetrachloride	<19		50	19	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Chlorobenzene	<19		50	19	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Chloroethane	<25		50	25	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Chloroform	<19		100	19	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Chloromethane	<16		50	16	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Dibromochloromethane	<24		50	24	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Dibromomethane	<14		50	14	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Hexachlorobutadiene	<22		50	22	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Isopropyl ether	<14		50	14	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Isopropylbenzene	<19		50	19	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Methylene Chloride	<82		250	82	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Naphthalene	<17		50	17	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
n-Butylbenzene	<19		50	19	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
N-Propylbenzene	<21		50	21	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
p-Isopropyltoluene	<18		50	18	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
sec-Butylbenzene	<20		50	20	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Styrene	<19		50	19	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
tert-Butylbenzene	<20		50	20	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Tetrachloroethene	<19		50	19	ug/Kg		04/04/20 15:30	04/06/20 10:31	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-536783/17-A
Matrix: Solid
Analysis Batch: 536810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 536783

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<7.4		13	7.4	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Trichloroethene	<8.2		25	8.2	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Trichlorofluoromethane	<21		50	21	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Vinyl chloride	<13		50	13	ug/Kg		04/04/20 15:30	04/06/20 10:31	50
Xylenes, Total	<11		25	11	ug/Kg		04/04/20 15:30	04/06/20 10:31	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*	*04/04/20 15:30*	*04/06/20 10:31*	*50*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*	*04/04/20 15:30*	*04/06/20 10:31*	*50*
Dibromofluoromethane	*102*		*75 - 120*	*04/04/20 15:30*	*04/06/20 10:31*	*50*
Toluene-d8 (Surr)	*104*		*75 - 120*	*04/04/20 15:30*	*04/06/20 10:31*	*50*

Lab Sample ID: LCS 500-536783/18-A
Matrix: Solid
Analysis Batch: 536810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 536783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	3340	*	ug/Kg		133	70 - 125
1,1,1-Trichloroethane	2500	2880		ug/Kg		115	70 - 125
1,1,2,2-Tetrachloroethane	2500	2850		ug/Kg		114	62 - 140
1,1,2-Trichloroethane	2500	2960		ug/Kg		118	71 - 130
1,1-Dichloroethane	2500	2870		ug/Kg		115	70 - 125
1,1-Dichloroethene	2500	2780		ug/Kg		111	67 - 122
1,1-Dichloropropene	2500	2740		ug/Kg		110	70 - 121
1,2,3-Trichlorobenzene	2500	3090		ug/Kg		123	51 - 145
1,2,3-Trichloropropane	2500	2790		ug/Kg		112	50 - 133
1,2,4-Trichlorobenzene	2500	2870		ug/Kg		115	57 - 137
1,2,4-Trimethylbenzene	2500	2690		ug/Kg		108	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2670		ug/Kg		107	56 - 123
1,2-Dibromoethane	2500	3180	*	ug/Kg		127	70 - 125
1,2-Dichlorobenzene	2500	3010		ug/Kg		120	70 - 125
1,2-Dichloroethane	2500	3230	*	ug/Kg		129	68 - 127
1,2-Dichloropropane	2500	2870		ug/Kg		115	67 - 130
1,3,5-Trimethylbenzene	2500	2640		ug/Kg		106	70 - 123
1,3-Dichlorobenzene	2500	2910		ug/Kg		116	70 - 125
1,3-Dichloropropane	2500	2970		ug/Kg		119	62 - 136
1,4-Dichlorobenzene	2500	2900		ug/Kg		116	70 - 120
2,2-Dichloropropane	2500	2750		ug/Kg		110	58 - 139
2-Chlorotoluene	2500	2650		ug/Kg		106	70 - 125
4-Chlorotoluene	2500	2640		ug/Kg		105	68 - 124
Benzene	2500	3010		ug/Kg		120	70 - 120
Bromobenzene	2500	2910		ug/Kg		116	70 - 122
Bromochloromethane	2500	3410	*	ug/Kg		136	65 - 122
Bromodichloromethane	2500	3110	*	ug/Kg		124	69 - 120
Bromoform	2500	3320	*	ug/Kg		133	56 - 132
Bromomethane	2500	3720		ug/Kg		149	40 - 152

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-536783/18-A
Matrix: Solid
Analysis Batch: 536810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 536783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	2500	2930		ug/Kg		117	59 - 133
Chlorobenzene	2500	3100	*	ug/Kg		124	70 - 120
Chloroethane	2500	2650		ug/Kg		106	48 - 136
Chloroform	2500	3030	*	ug/Kg		121	70 - 120
Chloromethane	2500	1970		ug/Kg		79	56 - 152
cis-1,2-Dichloroethene	2500	3170	*	ug/Kg		127	70 - 125
cis-1,3-Dichloropropene	2500	3010		ug/Kg		120	64 - 127
Dibromochloromethane	2500	3300	*	ug/Kg		132	68 - 125
Dibromomethane	2500	3210	*	ug/Kg		128	70 - 120
Dichlorodifluoromethane	2500	1530		ug/Kg		61	40 - 159
Ethylbenzene	2500	2960		ug/Kg		118	70 - 123
Hexachlorobutadiene	2500	2420		ug/Kg		97	51 - 150
Isopropylbenzene	2500	2600		ug/Kg		104	70 - 126
Methyl tert-butyl ether	2500	3200	*	ug/Kg		128	55 - 123
Methylene Chloride	2500	3170	*	ug/Kg		127	69 - 125
Naphthalene	2500	2980		ug/Kg		119	53 - 144
n-Butylbenzene	2500	2510		ug/Kg		101	68 - 125
N-Propylbenzene	2500	2570		ug/Kg		103	69 - 127
p-Isopropyltoluene	2500	2710		ug/Kg		108	70 - 125
sec-Butylbenzene	2500	2590		ug/Kg		104	70 - 123
Styrene	2500	2930		ug/Kg		117	70 - 120
tert-Butylbenzene	2500	2740		ug/Kg		109	70 - 121
Tetrachloroethene	2500	2820		ug/Kg		113	70 - 128
Toluene	2500	2840		ug/Kg		114	70 - 125
trans-1,2-Dichloroethene	2500	2980		ug/Kg		119	70 - 125
trans-1,3-Dichloropropene	2500	2990		ug/Kg		119	62 - 128
Trichloroethene	2500	3150	*	ug/Kg		126	70 - 125
Trichlorofluoromethane	2500	2690		ug/Kg		108	55 - 128
Vinyl chloride	2500	2250		ug/Kg		90	64 - 126
Xylenes, Total	5000	5630		ug/Kg		113	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane	*114*		*75 - 120*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Sample ID: MB 500-536810/6
Matrix: Solid
Analysis Batch: 536810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			04/06/20 10:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			04/06/20 10:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			04/06/20 10:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			04/06/20 10:07	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			04/06/20 10:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			04/06/20 10:07	1

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-536810/6
Matrix: Solid
Analysis Batch: 536810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			04/06/20 10:07	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			04/06/20 10:07	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			04/06/20 10:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			04/06/20 10:07	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			04/06/20 10:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			04/06/20 10:07	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			04/06/20 10:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			04/06/20 10:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			04/06/20 10:07	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			04/06/20 10:07	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			04/06/20 10:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			04/06/20 10:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			04/06/20 10:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			04/06/20 10:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			04/06/20 10:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			04/06/20 10:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			04/06/20 10:07	1
Benzene	<0.15		0.25	0.15	ug/Kg			04/06/20 10:07	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			04/06/20 10:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			04/06/20 10:07	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			04/06/20 10:07	1
Bromoform	<0.48		1.0	0.48	ug/Kg			04/06/20 10:07	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			04/06/20 10:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			04/06/20 10:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			04/06/20 10:07	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			04/06/20 10:07	1
Chloroform	<0.37		2.0	0.37	ug/Kg			04/06/20 10:07	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			04/06/20 10:07	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			04/06/20 10:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			04/06/20 10:07	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			04/06/20 10:07	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			04/06/20 10:07	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			04/06/20 10:07	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			04/06/20 10:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			04/06/20 10:07	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			04/06/20 10:07	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			04/06/20 10:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			04/06/20 10:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			04/06/20 10:07	1
Naphthalene	0.444	J	1.0	0.33	ug/Kg			04/06/20 10:07	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			04/06/20 10:07	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			04/06/20 10:07	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			04/06/20 10:07	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			04/06/20 10:07	1
Styrene	<0.39		1.0	0.39	ug/Kg			04/06/20 10:07	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			04/06/20 10:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			04/06/20 10:07	1
Toluene	<0.15		0.25	0.15	ug/Kg			04/06/20 10:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			04/06/20 10:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-536810/6
Matrix: Solid
Analysis Batch: 536810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			04/06/20 10:07	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			04/06/20 10:07	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			04/06/20 10:07	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			04/06/20 10:07	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			04/06/20 10:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*04/06/20 10:07*	*1*
4-Bromofluorobenzene (Surr)	*85*		*72 - 124*		*04/06/20 10:07*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*04/06/20 10:07*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*04/06/20 10:07*	*1*

Lab Sample ID: LCS 500-536810/4
Matrix: Solid
Analysis Batch: 536810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.3		ug/Kg		109	70 - 125
1,1,1-Trichloroethane	50.0	53.2		ug/Kg		106	70 - 125
1,1,2,2-Tetrachloroethane	50.0	46.2		ug/Kg		92	62 - 140
1,1,2-Trichloroethane	50.0	48.5		ug/Kg		97	71 - 130
1,1-Dichloroethane	50.0	46.6		ug/Kg		93	70 - 125
1,1-Dichloroethene	50.0	53.2		ug/Kg		106	67 - 122
1,1-Dichloropropene	50.0	49.7		ug/Kg		99	70 - 121
1,2,3-Trichlorobenzene	50.0	50.8		ug/Kg		102	51 - 145
1,2,3-Trichloropropane	50.0	47.3		ug/Kg		95	50 - 133
1,2,4-Trichlorobenzene	50.0	50.5		ug/Kg		101	57 - 137
1,2,4-Trimethylbenzene	50.0	45.7		ug/Kg		91	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	45.0		ug/Kg		90	56 - 123
1,2-Dibromoethane	50.0	51.8		ug/Kg		104	70 - 125
1,2-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 125
1,2-Dichloroethane	50.0	49.8		ug/Kg		100	68 - 127
1,2-Dichloropropane	50.0	45.4		ug/Kg		91	67 - 130
1,3,5-Trimethylbenzene	50.0	46.9		ug/Kg		94	70 - 123
1,3-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 125
1,3-Dichloropropane	50.0	47.7		ug/Kg		95	62 - 136
1,4-Dichlorobenzene	50.0	48.2		ug/Kg		96	70 - 120
2,2-Dichloropropane	50.0	51.2		ug/Kg		102	58 - 139
2-Chlorotoluene	50.0	45.0		ug/Kg		90	70 - 125
4-Chlorotoluene	50.0	45.2		ug/Kg		90	68 - 124
Benzene	50.0	48.6		ug/Kg		97	70 - 120
Bromobenzene	50.0	47.8		ug/Kg		96	70 - 122
Bromochloromethane	50.0	53.3		ug/Kg		107	65 - 122
Bromodichloromethane	50.0	48.1		ug/Kg		96	69 - 120
Bromoform	50.0	55.6		ug/Kg		111	56 - 132
Bromomethane	50.0	62.6		ug/Kg		125	40 - 152
Carbon tetrachloride	50.0	56.8		ug/Kg		114	59 - 133
Chlorobenzene	50.0	51.3		ug/Kg		103	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-536810/4
Matrix: Solid
Analysis Batch: 536810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	46.0		ug/Kg		92	48 - 136
Chloroform	50.0	48.7		ug/Kg		97	70 - 120
Chloromethane	50.0	37.1		ug/Kg		74	56 - 152
cis-1,2-Dichloroethene	50.0	50.3		ug/Kg		101	70 - 125
cis-1,3-Dichloropropene	50.0	48.3		ug/Kg		97	64 - 127
Dibromochloromethane	50.0	53.0		ug/Kg		106	68 - 125
Dibromomethane	50.0	49.9		ug/Kg		100	70 - 120
Dichlorodifluoromethane	50.0	39.1		ug/Kg		78	40 - 159
Ethylbenzene	50.0	52.0		ug/Kg		104	70 - 123
Hexachlorobutadiene	50.0	47.0		ug/Kg		94	51 - 150
Isopropylbenzene	50.0	46.9		ug/Kg		94	70 - 126
Methyl tert-butyl ether	50.0	49.1		ug/Kg		98	55 - 123
Methylene Chloride	50.0	50.1		ug/Kg		100	69 - 125
Naphthalene	50.0	49.8		ug/Kg		100	53 - 144
n-Butylbenzene	50.0	48.1		ug/Kg		96	68 - 125
N-Propylbenzene	50.0	46.6		ug/Kg		93	69 - 127
p-Isopropyltoluene	50.0	49.6		ug/Kg		99	70 - 125
sec-Butylbenzene	50.0	47.8		ug/Kg		96	70 - 123
Styrene	50.0	48.2		ug/Kg		96	70 - 120
tert-Butylbenzene	50.0	48.7		ug/Kg		97	70 - 121
Tetrachloroethene	50.0	54.1		ug/Kg		108	70 - 128
Toluene	50.0	49.2		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	50.0	51.6		ug/Kg		103	70 - 125
trans-1,3-Dichloropropene	50.0	47.6		ug/Kg		95	62 - 128
Trichloroethene	50.0	54.4		ug/Kg		109	70 - 125
Trichlorofluoromethane	50.0	55.0		ug/Kg		110	55 - 128
Vinyl chloride	50.0	44.9		ug/Kg		90	64 - 126
Xylenes, Total	100	97.6		ug/Kg		98	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*
Dibromofluoromethane	*107*		*75 - 120*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: MB 500-536979/6
Matrix: Water
Analysis Batch: 536979

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/07/20 00:04	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/07/20 00:04	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/07/20 00:04	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/07/20 00:04	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/07/20 00:04	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/07/20 00:04	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/07/20 00:04	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/07/20 00:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-536979/6
Matrix: Water
Analysis Batch: 536979

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/07/20 00:04	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/07/20 00:04	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/07/20 00:04	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/07/20 00:04	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/07/20 00:04	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/07/20 00:04	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/07/20 00:04	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/07/20 00:04	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/07/20 00:04	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/07/20 00:04	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/07/20 00:04	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/07/20 00:04	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/07/20 00:04	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/07/20 00:04	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/07/20 00:04	1
Benzene	<0.15		0.50	0.15	ug/L			04/07/20 00:04	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/07/20 00:04	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/07/20 00:04	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/07/20 00:04	1
Bromoform	<0.48		1.0	0.48	ug/L			04/07/20 00:04	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/07/20 00:04	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/07/20 00:04	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/07/20 00:04	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/07/20 00:04	1
Chloroform	<0.37		2.0	0.37	ug/L			04/07/20 00:04	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/07/20 00:04	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/07/20 00:04	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/07/20 00:04	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/07/20 00:04	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/07/20 00:04	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/07/20 00:04	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/07/20 00:04	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/07/20 00:04	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/07/20 00:04	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/07/20 00:04	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/07/20 00:04	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/07/20 00:04	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/07/20 00:04	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/07/20 00:04	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/07/20 00:04	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/07/20 00:04	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/07/20 00:04	1
Styrene	<0.39		1.0	0.39	ug/L			04/07/20 00:04	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/07/20 00:04	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/07/20 00:04	1
Toluene	<0.15		0.50	0.15	ug/L			04/07/20 00:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/07/20 00:04	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/07/20 00:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/07/20 00:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-536979/6
Matrix: Water
Analysis Batch: 536979

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/07/20 00:04	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/07/20 00:04	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/07/20 00:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*04/07/20 00:04*	*1*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*		*04/07/20 00:04*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*04/07/20 00:04*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*04/07/20 00:04*	*1*

Lab Sample ID: LCS 500-536979/4
Matrix: Water
Analysis Batch: 536979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	46.7		ug/L		93	70 - 125
1,1,1-Trichloroethane	50.0	60.4		ug/L		121	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.4		ug/L		91	62 - 140
1,1,2-Trichloroethane	50.0	44.8		ug/L		90	71 - 130
1,1-Dichloroethane	50.0	49.5		ug/L		99	70 - 125
1,1-Dichloroethene	50.0	51.6		ug/L		103	67 - 122
1,1-Dichloropropene	50.0	52.2		ug/L		104	70 - 121
1,2,3-Trichlorobenzene	50.0	55.9		ug/L		112	51 - 145
1,2,3-Trichloropropane	50.0	46.8		ug/L		94	50 - 133
1,2,4-Trichlorobenzene	50.0	57.6		ug/L		115	57 - 137
1,2,4-Trimethylbenzene	50.0	46.7		ug/L		93	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	38.4		ug/L		77	56 - 123
1,2-Dibromoethane	50.0	49.7		ug/L		99	70 - 125
1,2-Dichlorobenzene	50.0	45.5		ug/L		91	70 - 125
1,2-Dichloroethane	50.0	45.2		ug/L		90	68 - 127
1,2-Dichloropropane	50.0	43.2		ug/L		86	67 - 130
1,3,5-Trimethylbenzene	50.0	46.8		ug/L		94	70 - 123
1,3-Dichlorobenzene	50.0	46.2		ug/L		92	70 - 125
1,3-Dichloropropane	50.0	47.1		ug/L		94	62 - 136
1,4-Dichlorobenzene	50.0	45.3		ug/L		91	70 - 120
2,2-Dichloropropane	50.0	58.4		ug/L		117	58 - 139
2-Chlorotoluene	50.0	47.6		ug/L		95	70 - 125
4-Chlorotoluene	50.0	47.5		ug/L		95	68 - 124
Benzene	50.0	49.1		ug/L		98	70 - 120
Bromobenzene	50.0	49.0		ug/L		98	70 - 122
Bromochloromethane	50.0	53.0		ug/L		106	65 - 122
Bromodichloromethane	50.0	47.4		ug/L		95	69 - 120
Bromoform	50.0	58.6		ug/L		117	56 - 132
Bromomethane	50.0	53.3		ug/L		107	40 - 152
Carbon tetrachloride	50.0	52.0		ug/L		104	59 - 133
Chlorobenzene	50.0	49.1		ug/L		98	70 - 120
Chloroethane	50.0	42.9		ug/L		86	48 - 136
Chloroform	50.0	53.7		ug/L		107	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-536979/4
Matrix: Water
Analysis Batch: 536979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	44.5		ug/L		89	56 - 152
cis-1,2-Dichloroethene	50.0	54.5		ug/L		109	70 - 125
cis-1,3-Dichloropropene	50.0	43.1		ug/L		86	64 - 127
Dibromochloromethane	50.0	44.0		ug/L		88	68 - 125
Dibromomethane	50.0	47.4		ug/L		95	70 - 120
Dichlorodifluoromethane	50.0	45.1		ug/L		90	40 - 159
Ethylbenzene	50.0	52.1		ug/L		104	70 - 123
Hexachlorobutadiene	50.0	74.3		ug/L		149	51 - 150
Isopropylbenzene	50.0	46.1		ug/L		92	70 - 126
Methyl tert-butyl ether	50.0	52.7		ug/L		105	55 - 123
Methylene Chloride	50.0	52.7		ug/L		105	69 - 125
Naphthalene	50.0	41.7		ug/L		83	53 - 144
n-Butylbenzene	50.0	48.3		ug/L		97	68 - 125
N-Propylbenzene	50.0	48.0		ug/L		96	69 - 127
p-Isopropyltoluene	50.0	45.9		ug/L		92	70 - 125
sec-Butylbenzene	50.0	46.5		ug/L		93	70 - 123
Styrene	50.0	51.4		ug/L		103	70 - 120
tert-Butylbenzene	50.0	43.9		ug/L		88	70 - 121
Tetrachloroethene	50.0	55.9		ug/L		112	70 - 128
Toluene	50.0	44.5		ug/L		89	70 - 125
trans-1,2-Dichloroethene	50.0	55.8		ug/L		112	70 - 125
trans-1,3-Dichloropropene	50.0	45.9		ug/L		92	62 - 128
Trichloroethene	50.0	46.2		ug/L		92	70 - 125
Trichlorofluoromethane	50.0	52.3		ug/L		105	55 - 128
Vinyl chloride	50.0	54.0		ug/L		108	64 - 126
Xylenes, Total	100	104		ug/L		104	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*104*		*75 - 120*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Sample ID: 500-180040-3 MS
Matrix: Water
Analysis Batch: 536979

Client Sample ID: TW6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<0.46		50.0	42.8		ug/L		86	70 - 125
1,1,1-Trichloroethane	<0.38		50.0	56.0		ug/L		112	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	48.1		ug/L		96	62 - 140
1,1,2-Trichloroethane	<0.35		50.0	48.5		ug/L		97	71 - 130
1,1-Dichloroethane	<0.41		50.0	46.5		ug/L		93	70 - 125
1,1-Dichloroethene	<0.39		50.0	48.1		ug/L		96	67 - 122
1,1-Dichloropropene	<0.30		50.0	48.6		ug/L		97	70 - 121
1,2,3-Trichlorobenzene	<0.46		50.0	55.4		ug/L		111	51 - 145
1,2,3-Trichloropropane	<0.41		50.0	48.0		ug/L		96	50 - 133
1,2,4-Trichlorobenzene	<0.34		50.0	53.6		ug/L		107	57 - 137

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-180040-3 MS
Matrix: Water
Analysis Batch: 536979

Client Sample ID: TW6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	<0.36		50.0	46.3		ug/L		93	70 - 123
1,2-Dibromo-3-Chloropropane	<2.0		50.0	38.7		ug/L		77	56 - 123
1,2-Dibromoethane	<0.39		50.0	50.3		ug/L		101	70 - 125
1,2-Dichlorobenzene	<0.33		50.0	45.5		ug/L		91	70 - 125
1,2-Dichloroethane	<0.39		50.0	45.0		ug/L		90	68 - 127
1,2-Dichloropropane	<0.43		50.0	46.7		ug/L		93	67 - 130
1,3,5-Trimethylbenzene	<0.25		50.0	46.9		ug/L		94	70 - 123
1,3-Dichlorobenzene	<0.40		50.0	45.8		ug/L		92	70 - 125
1,3-Dichloropropane	<0.36		50.0	50.2		ug/L		100	62 - 136
1,4-Dichlorobenzene	<0.36		50.0	44.0		ug/L		88	70 - 120
2,2-Dichloropropane	<0.44		50.0	49.6		ug/L		99	58 - 139
2-Chlorotoluene	<0.31		50.0	48.5		ug/L		97	70 - 125
4-Chlorotoluene	<0.35		50.0	47.2		ug/L		94	68 - 124
Benzene	<0.15		50.0	48.5		ug/L		97	70 - 120
Bromobenzene	<0.36		50.0	50.1		ug/L		100	70 - 122
Bromochloromethane	<0.43		50.0	49.2		ug/L		98	65 - 122
Bromodichloromethane	<0.37		50.0	49.9		ug/L		100	69 - 120
Bromoform	<0.48		50.0	55.7		ug/L		111	56 - 132
Bromomethane	<0.80		50.0	48.3		ug/L		97	40 - 152
Carbon tetrachloride	<0.38		50.0	47.4		ug/L		95	59 - 133
Chlorobenzene	<0.39		50.0	47.9		ug/L		96	70 - 120
Chloroethane	<0.51		50.0	40.5		ug/L		81	48 - 136
Chloroform	<0.37		50.0	50.4		ug/L		101	70 - 120
Chloromethane	<0.32		50.0	42.9		ug/L		86	56 - 152
cis-1,2-Dichloroethene	<0.41		50.0	51.5		ug/L		103	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	45.8		ug/L		92	64 - 127
Dibromochloromethane	<0.49		50.0	47.7		ug/L		95	68 - 125
Dibromomethane	<0.27		50.0	48.9		ug/L		98	70 - 120
Dichlorodifluoromethane	<0.67		50.0	44.4		ug/L		89	40 - 159
Ethylbenzene	<0.18		50.0	50.3		ug/L		101	70 - 123
Hexachlorobutadiene	<0.45		50.0	71.7		ug/L		143	51 - 150
Isopropylbenzene	<0.39		50.0	48.0		ug/L		96	70 - 126
Methyl tert-butyl ether	<0.39		50.0	50.6		ug/L		101	55 - 123
Methylene Chloride	<1.6		50.0	51.7		ug/L		103	69 - 125
Naphthalene	<0.34		50.0	40.8		ug/L		82	53 - 144
n-Butylbenzene	<0.39		50.0	45.4		ug/L		91	68 - 125
N-Propylbenzene	<0.41		50.0	47.9		ug/L		96	69 - 127
p-Isopropyltoluene	<0.36		50.0	44.7		ug/L		89	70 - 125
sec-Butylbenzene	<0.40		50.0	46.0		ug/L		92	70 - 123
Styrene	<0.39		50.0	48.2		ug/L		96	70 - 120
tert-Butylbenzene	<0.40		50.0	44.7		ug/L		89	70 - 121
Tetrachloroethene	2.7		50.0	58.6		ug/L		112	70 - 128
Toluene	<0.15		50.0	47.3		ug/L		95	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	50.8		ug/L		102	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	46.0		ug/L		92	62 - 128
Trichloroethene	0.39	J	50.0	46.6		ug/L		92	70 - 125
Trichlorofluoromethane	<0.43		50.0	49.9		ug/L		100	55 - 128
Vinyl chloride	<0.20		50.0	51.3		ug/L		103	64 - 126
Xylenes, Total	<0.22		100	98.8		ug/L		99	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		75 - 126
4-Bromofluorobenzene (Surr)	102		72 - 124
Dibromofluoromethane	98		75 - 120
Toluene-d8 (Surr)	97		75 - 120

Lab Sample ID: 500-180040-3 MSD
Matrix: Water
Analysis Batch: 536979

Client Sample ID: TW6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.46		50.0	47.5		ug/L		95	70 - 125	11	20
1,1,1-Trichloroethane	<0.38		50.0	52.8		ug/L		106	70 - 125	6	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	45.0		ug/L		90	62 - 140	7	20
1,1,2-Trichloroethane	<0.35		50.0	47.3		ug/L		95	71 - 130	2	20
1,1-Dichloroethane	<0.41		50.0	44.7		ug/L		89	70 - 125	4	20
1,1-Dichloroethene	<0.39		50.0	45.0		ug/L		90	67 - 122	7	20
1,1-Dichloropropene	<0.30		50.0	49.3		ug/L		99	70 - 121	1	20
1,2,3-Trichlorobenzene	<0.46		50.0	53.3		ug/L		107	51 - 145	4	20
1,2,3-Trichloropropane	<0.41		50.0	43.3		ug/L		87	50 - 133	10	20
1,2,4-Trichlorobenzene	<0.34		50.0	51.7		ug/L		103	57 - 137	4	20
1,2,4-Trimethylbenzene	<0.36		50.0	43.6		ug/L		87	70 - 123	6	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	37.7		ug/L		75	56 - 123	3	20
1,2-Dibromoethane	<0.39		50.0	48.9		ug/L		98	70 - 125	3	20
1,2-Dichlorobenzene	<0.33		50.0	43.6		ug/L		87	70 - 125	4	20
1,2-Dichloroethane	<0.39		50.0	42.9		ug/L		86	68 - 127	5	20
1,2-Dichloropropane	<0.43		50.0	41.3		ug/L		83	67 - 130	12	20
1,3,5-Trimethylbenzene	<0.25		50.0	44.4		ug/L		89	70 - 123	5	20
1,3-Dichlorobenzene	<0.40		50.0	43.6		ug/L		87	70 - 125	5	20
1,3-Dichloropropane	<0.36		50.0	47.3		ug/L		95	62 - 136	6	20
1,4-Dichlorobenzene	<0.36		50.0	42.0		ug/L		84	70 - 120	5	20
2,2-Dichloropropane	<0.44		50.0	46.5		ug/L		93	58 - 139	6	20
2-Chlorotoluene	<0.31		50.0	44.7		ug/L		89	70 - 125	8	20
4-Chlorotoluene	<0.35		50.0	45.0		ug/L		90	68 - 124	5	20
Benzene	<0.15		50.0	47.4		ug/L		95	70 - 120	2	20
Bromobenzene	<0.36		50.0	47.1		ug/L		94	70 - 122	6	20
Bromochloromethane	<0.43		50.0	49.3		ug/L		99	65 - 122	0	20
Bromodichloromethane	<0.37		50.0	46.5		ug/L		93	69 - 120	7	20
Bromoform	<0.48		50.0	56.1		ug/L		112	56 - 132	1	20
Bromomethane	<0.80		50.0	46.3		ug/L		93	40 - 152	4	20
Carbon tetrachloride	<0.38		50.0	45.8		ug/L		92	59 - 133	3	20
Chlorobenzene	<0.39		50.0	47.0		ug/L		94	70 - 120	2	20
Chloroethane	<0.51		50.0	35.7		ug/L		71	48 - 136	13	20
Chloroform	<0.37		50.0	49.9		ug/L		100	70 - 120	1	20
Chloromethane	<0.32		50.0	39.1		ug/L		78	56 - 152	9	20
cis-1,2-Dichloroethene	<0.41		50.0	49.5		ug/L		99	70 - 125	4	20
cis-1,3-Dichloropropene	<0.42		50.0	46.5		ug/L		93	64 - 127	2	20
Dibromochloromethane	<0.49		50.0	45.4		ug/L		91	68 - 125	5	20
Dibromomethane	<0.27		50.0	47.0		ug/L		94	70 - 120	4	20
Dichlorodifluoromethane	<0.67		50.0	41.0		ug/L		82	40 - 159	8	20
Ethylbenzene	<0.18		50.0	48.5		ug/L		97	70 - 123	4	20
Hexachlorobutadiene	<0.45		50.0	64.7		ug/L		129	51 - 150	10	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-180040-3 MSD
Matrix: Water
Analysis Batch: 536979

Client Sample ID: TW6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	<0.39		50.0	43.6		ug/L		87	70 - 126	9	20
Methyl tert-butyl ether	<0.39		50.0	48.3		ug/L		97	55 - 123	5	20
Methylene Chloride	<1.6		50.0	46.3		ug/L		93	69 - 125	11	20
Naphthalene	<0.34		50.0	40.3		ug/L		81	53 - 144	1	20
n-Butylbenzene	<0.39		50.0	43.4		ug/L		87	68 - 125	5	20
N-Propylbenzene	<0.41		50.0	44.0		ug/L		88	69 - 127	8	20
p-Isopropyltoluene	<0.36		50.0	42.8		ug/L		86	70 - 125	4	20
sec-Butylbenzene	<0.40		50.0	43.5		ug/L		87	70 - 123	6	20
Styrene	<0.39		50.0	49.4		ug/L		99	70 - 120	2	20
tert-Butylbenzene	<0.40		50.0	43.2		ug/L		86	70 - 121	3	20
Tetrachloroethene	2.7		50.0	59.1		ug/L		113	70 - 128	1	20
Toluene	<0.15		50.0	47.4		ug/L		95	70 - 125	0	20
trans-1,2-Dichloroethene	<0.35		50.0	49.0		ug/L		98	70 - 125	4	20
trans-1,3-Dichloropropene	<0.36		50.0	46.0		ug/L		92	62 - 128	0	20
Trichloroethene	0.39	J	50.0	44.6		ug/L		88	70 - 125	4	20
Trichlorofluoromethane	<0.43		50.0	45.6		ug/L		91	55 - 128	9	20
Vinyl chloride	<0.20		50.0	47.4		ug/L		95	64 - 126	8	20
Xylenes, Total	<0.22		100	100		ug/L		100	70 - 125	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*
Dibromofluoromethane	*98*		*75 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: MB 500-537159/6
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			04/08/20 00:38	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			04/08/20 00:38	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			04/08/20 00:38	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			04/08/20 00:38	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			04/08/20 00:38	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			04/08/20 00:38	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			04/08/20 00:38	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			04/08/20 00:38	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			04/08/20 00:38	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			04/08/20 00:38	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			04/08/20 00:38	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			04/08/20 00:38	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			04/08/20 00:38	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			04/08/20 00:38	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			04/08/20 00:38	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			04/08/20 00:38	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			04/08/20 00:38	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			04/08/20 00:38	1

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-537159/6
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			04/08/20 00:38	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			04/08/20 00:38	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			04/08/20 00:38	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			04/08/20 00:38	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			04/08/20 00:38	1
Benzene	<0.15		0.25	0.15	ug/Kg			04/08/20 00:38	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			04/08/20 00:38	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			04/08/20 00:38	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			04/08/20 00:38	1
Bromoform	<0.48		1.0	0.48	ug/Kg			04/08/20 00:38	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			04/08/20 00:38	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			04/08/20 00:38	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			04/08/20 00:38	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			04/08/20 00:38	1
Chloroform	<0.37		2.0	0.37	ug/Kg			04/08/20 00:38	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			04/08/20 00:38	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			04/08/20 00:38	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			04/08/20 00:38	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			04/08/20 00:38	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			04/08/20 00:38	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			04/08/20 00:38	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			04/08/20 00:38	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			04/08/20 00:38	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			04/08/20 00:38	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			04/08/20 00:38	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			04/08/20 00:38	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			04/08/20 00:38	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			04/08/20 00:38	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			04/08/20 00:38	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			04/08/20 00:38	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			04/08/20 00:38	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			04/08/20 00:38	1
Styrene	<0.39		1.0	0.39	ug/Kg			04/08/20 00:38	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			04/08/20 00:38	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			04/08/20 00:38	1
Toluene	<0.15		0.25	0.15	ug/Kg			04/08/20 00:38	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			04/08/20 00:38	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			04/08/20 00:38	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			04/08/20 00:38	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			04/08/20 00:38	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			04/08/20 00:38	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			04/08/20 00:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*04/08/20 00:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*04/08/20 00:38*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*04/08/20 00:38*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*04/08/20 00:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-537159/4
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	43.0		ug/Kg		86	70 - 125
1,1,1-Trichloroethane	50.0	44.0		ug/Kg		88	70 - 125
1,1,2,2-Tetrachloroethane	50.0	53.1		ug/Kg		106	62 - 140
1,1,2-Trichloroethane	50.0	51.2		ug/Kg		102	71 - 130
1,1-Dichloroethane	50.0	47.1		ug/Kg		94	70 - 125
1,1-Dichloroethene	50.0	48.3		ug/Kg		97	67 - 122
1,1-Dichloropropene	50.0	45.2		ug/Kg		90	70 - 121
1,2,3-Trichlorobenzene	50.0	44.7		ug/Kg		89	51 - 145
1,2,3-Trichloropropane	50.0	51.1		ug/Kg		102	50 - 133
1,2,4-Trichlorobenzene	50.0	45.7		ug/Kg		91	57 - 137
1,2,4-Trimethylbenzene	50.0	48.9		ug/Kg		98	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	39.2		ug/Kg		78	56 - 123
1,2-Dibromoethane	50.0	49.3		ug/Kg		99	70 - 125
1,2-Dichlorobenzene	50.0	47.9		ug/Kg		96	70 - 125
1,2-Dichloroethane	50.0	42.3		ug/Kg		85	68 - 127
1,2-Dichloropropane	50.0	50.5		ug/Kg		101	67 - 130
1,3,5-Trimethylbenzene	50.0	48.2		ug/Kg		96	70 - 123
1,3-Dichlorobenzene	50.0	47.8		ug/Kg		96	70 - 125
1,3-Dichloropropane	50.0	48.6		ug/Kg		97	62 - 136
1,4-Dichlorobenzene	50.0	47.7		ug/Kg		95	70 - 120
2,2-Dichloropropane	50.0	39.7		ug/Kg		79	58 - 139
2-Chlorotoluene	50.0	48.0		ug/Kg		96	70 - 125
4-Chlorotoluene	50.0	47.9		ug/Kg		96	68 - 124
Benzene	50.0	49.3		ug/Kg		99	70 - 120
Bromobenzene	50.0	47.9		ug/Kg		96	70 - 122
Bromochloromethane	50.0	49.1		ug/Kg		98	65 - 122
Bromodichloromethane	50.0	45.9		ug/Kg		92	69 - 120
Bromoform	50.0	42.6		ug/Kg		85	56 - 132
Bromomethane	50.0	51.9		ug/Kg		104	40 - 152
Carbon tetrachloride	50.0	42.6		ug/Kg		85	59 - 133
Chlorobenzene	50.0	47.1		ug/Kg		94	70 - 120
Chloroethane	50.0	48.9		ug/Kg		98	48 - 136
Chloroform	50.0	44.6		ug/Kg		89	70 - 120
Chloromethane	50.0	57.5		ug/Kg		115	56 - 152
cis-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	70 - 125
cis-1,3-Dichloropropene	50.0	45.5		ug/Kg		91	64 - 127
Dibromochloromethane	50.0	45.5		ug/Kg		91	68 - 125
Dibromomethane	50.0	47.2		ug/Kg		94	70 - 120
Dichlorodifluoromethane	50.0	47.4		ug/Kg		95	40 - 159
Ethylbenzene	50.0	49.3		ug/Kg		99	70 - 123
Hexachlorobutadiene	50.0	41.2		ug/Kg		82	51 - 150
Isopropylbenzene	50.0	49.7		ug/Kg		99	70 - 126
Methyl tert-butyl ether	50.0	42.1		ug/Kg		84	55 - 123
Methylene Chloride	50.0	50.6		ug/Kg		101	69 - 125
Naphthalene	50.0	43.5		ug/Kg		87	53 - 144
n-Butylbenzene	50.0	49.4		ug/Kg		99	68 - 125
N-Propylbenzene	50.0	49.7		ug/Kg		99	69 - 127
p-Isopropyltoluene	50.0	46.9		ug/Kg		94	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-537159/4
Matrix: Solid
Analysis Batch: 537159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	50.0	48.8		ug/Kg		98	70 - 123
Styrene	50.0	49.6		ug/Kg		99	70 - 120
tert-Butylbenzene	50.0	45.4		ug/Kg		91	70 - 121
Tetrachloroethene	50.0	46.5		ug/Kg		93	70 - 128
Toluene	50.0	49.7		ug/Kg		99	70 - 125
trans-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	70 - 125
trans-1,3-Dichloropropene	50.0	42.7		ug/Kg		85	62 - 128
Trichloroethene	50.0	48.1		ug/Kg		96	70 - 125
Trichlorofluoromethane	50.0	48.3		ug/Kg		97	55 - 128
Vinyl chloride	50.0	55.7		ug/Kg		111	64 - 126
Xylenes, Total	100	92.1		ug/Kg		92	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*94*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-536296/1-A
Matrix: Water
Analysis Batch: 536331

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 536296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		04/01/20 08:16	04/01/20 15:33	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		04/01/20 08:16	04/01/20 15:33	1
Acenaphthene	<0.25		0.80	0.25	ug/L		04/01/20 08:16	04/01/20 15:33	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		04/01/20 08:16	04/01/20 15:33	1
Anthracene	<0.27		0.80	0.27	ug/L		04/01/20 08:16	04/01/20 15:33	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		04/01/20 08:16	04/01/20 15:33	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		04/01/20 08:16	04/01/20 15:33	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		04/01/20 08:16	04/01/20 15:33	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		04/01/20 08:16	04/01/20 15:33	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		04/01/20 08:16	04/01/20 15:33	1
Chrysene	<0.055		0.16	0.055	ug/L		04/01/20 08:16	04/01/20 15:33	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		04/01/20 08:16	04/01/20 15:33	1
Fluoranthene	<0.36		0.80	0.36	ug/L		04/01/20 08:16	04/01/20 15:33	1
Fluorene	<0.20		0.80	0.20	ug/L		04/01/20 08:16	04/01/20 15:33	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		04/01/20 08:16	04/01/20 15:33	1
Naphthalene	<0.25		0.80	0.25	ug/L		04/01/20 08:16	04/01/20 15:33	1
Phenanthrene	<0.24		0.80	0.24	ug/L		04/01/20 08:16	04/01/20 15:33	1
Pyrene	<0.34		0.80	0.34	ug/L		04/01/20 08:16	04/01/20 15:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*34 - 110*	*04/01/20 08:16*	*04/01/20 15:33*	*1*
Nitrobenzene-d5 (Surr)	*83*		*36 - 120*	*04/01/20 08:16*	*04/01/20 15:33*	*1*
Terphenyl-d14 (Surr)	*107*		*40 - 145*	*04/01/20 08:16*	*04/01/20 15:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-536296/2-A
Matrix: Water
Analysis Batch: 536331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 536296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	32.0	23.4		ug/L		73	38 - 110
2-Methylnaphthalene	32.0	23.6		ug/L		74	34 - 110
Acenaphthene	32.0	24.3		ug/L		76	46 - 110
Acenaphthylene	32.0	27.1		ug/L		85	47 - 113
Anthracene	32.0	31.6		ug/L		99	67 - 118
Benzo[a]anthracene	32.0	34.0		ug/L		106	70 - 126
Benzo[a]pyrene	32.0	34.2		ug/L		107	70 - 135
Benzo[b]fluoranthene	32.0	32.2		ug/L		101	69 - 136
Benzo[g,h,i]perylene	32.0	33.2		ug/L		104	70 - 135
Benzo[k]fluoranthene	32.0	32.7		ug/L		102	70 - 133
Chrysene	32.0	34.1		ug/L		107	68 - 129
Dibenz(a,h)anthracene	32.0	30.7		ug/L		96	70 - 134
Fluoranthene	32.0	35.2		ug/L		110	68 - 126
Fluorene	32.0	28.2		ug/L		88	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	31.5		ug/L		99	65 - 133
Naphthalene	32.0	23.1		ug/L		72	36 - 110
Phenanthrene	32.0	30.8		ug/L		96	65 - 120
Pyrene	32.0	33.5		ug/L		105	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*96*		*34 - 110*
Nitrobenzene-d5 (Surr)	*84*		*36 - 120*
Terphenyl-d14 (Surr)	*106*		*40 - 145*

Lab Sample ID: LCSD 500-536296/3-A
Matrix: Water
Analysis Batch: 536331

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 536296

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	32.0	24.3		ug/L		76	38 - 110	4	20
2-Methylnaphthalene	32.0	24.6		ug/L		77	34 - 110	4	20
Acenaphthene	32.0	24.0		ug/L		75	46 - 110	1	20
Acenaphthylene	32.0	26.7		ug/L		83	47 - 113	1	20
Anthracene	32.0	31.3		ug/L		98	67 - 118	1	20
Benzo[a]anthracene	32.0	33.1		ug/L		103	70 - 126	3	20
Benzo[a]pyrene	32.0	33.2		ug/L		104	70 - 135	3	20
Benzo[b]fluoranthene	32.0	32.1		ug/L		100	69 - 136	0	20
Benzo[g,h,i]perylene	32.0	31.9		ug/L		100	70 - 135	4	20
Benzo[k]fluoranthene	32.0	31.7		ug/L		99	70 - 133	3	20
Chrysene	32.0	33.3		ug/L		104	68 - 129	2	20
Dibenz(a,h)anthracene	32.0	29.6		ug/L		93	70 - 134	3	20
Fluoranthene	32.0	34.8		ug/L		109	68 - 126	1	20
Fluorene	32.0	27.5		ug/L		86	53 - 120	3	20
Indeno[1,2,3-cd]pyrene	32.0	30.7		ug/L		96	65 - 133	3	20
Naphthalene	32.0	24.2		ug/L		76	36 - 110	5	20
Phenanthrene	32.0	30.5		ug/L		95	65 - 120	1	20
Pyrene	32.0	32.7		ug/L		102	70 - 126	2	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-536296/3-A
Matrix: Water
Analysis Batch: 536331

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 536296

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*91*		*34 - 110*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*
Terphenyl-d14 (Surr)	*103*		*40 - 145*

Lab Sample ID: MB 500-537532/1-A
Matrix: Solid
Analysis Batch: 537620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 537532

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Acenaphthene	<6.0		33	6.0	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Anthracene	<5.6		33	5.6	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Chrysene	<9.1		33	9.1	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Fluoranthene	<6.2		33	6.2	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Fluorene	<4.7		33	4.7	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Naphthalene	<5.1		33	5.1	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Phenanthrene	<4.6		33	4.6	ug/Kg		04/09/20 18:16	04/10/20 12:13	1
Pyrene	<6.6		33	6.6	ug/Kg		04/09/20 18:16	04/10/20 12:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*43 - 145*	*04/09/20 18:16*	*04/10/20 12:13*	*1*
Nitrobenzene-d5 (Surr)	*85*		*37 - 147*	*04/09/20 18:16*	*04/10/20 12:13*	*1*
Terphenyl-d14 (Surr)	*123*		*42 - 157*	*04/09/20 18:16*	*04/10/20 12:13*	*1*

Lab Sample ID: LCS 500-537532/2-A
Matrix: Solid
Analysis Batch: 537620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 537532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1300		ug/Kg		98	68 - 111
2-Methylnaphthalene	1330	1410		ug/Kg		106	69 - 112
Acenaphthene	1330	1310		ug/Kg		99	65 - 124
Acenaphthylene	1330	1330		ug/Kg		100	68 - 120
Anthracene	1330	1270		ug/Kg		95	70 - 114
Benzo[a]anthracene	1330	1310		ug/Kg		98	67 - 122
Benzo[a]pyrene	1330	1280		ug/Kg		96	65 - 133
Benzo[b]fluoranthene	1330	1270		ug/Kg		95	69 - 129
Benzo[g,h,i]perylene	1330	1430		ug/Kg		107	72 - 131
Benzo[k]fluoranthene	1330	1260		ug/Kg		94	68 - 127

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-537532/2-A
Matrix: Solid
Analysis Batch: 537620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 537532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	1330	1320		ug/Kg		99	63 - 120
Dibenz(a,h)anthracene	1330	1430		ug/Kg		107	64 - 131
Fluoranthene	1330	1170		ug/Kg		88	62 - 120
Fluorene	1330	1330		ug/Kg		100	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1440		ug/Kg		108	68 - 130
Naphthalene	1330	1280		ug/Kg		96	63 - 110
Phenanthrene	1330	1260		ug/Kg		95	62 - 120
Pyrene	1330	1370		ug/Kg		102	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*100*		*43 - 145*
Nitrobenzene-d5 (Surr)	*87*		*37 - 147*
Terphenyl-d14 (Surr)	*111*		*42 - 157*

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: TW6 0-2.5
Date Collected: 03/30/20 10:15
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	536511	04/02/20 11:47	LWN	TAL CHI

Client Sample ID: TW6 0-2.5
Date Collected: 03/30/20 10:15
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-1
Matrix: Solid
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			536581	03/26/20 10:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	537159	04/08/20 01:31	JDD	TAL CHI

Client Sample ID: TW6 2.5-5
Date Collected: 03/30/20 10:20
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	536511	04/02/20 11:47	LWN	TAL CHI

Client Sample ID: TW6 2.5-5
Date Collected: 03/30/20 10:20
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-2
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			536581	03/26/20 10:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	537159	04/08/20 01:57	JDD	TAL CHI

Client Sample ID: TW6
Date Collected: 03/30/20 11:05
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	536979	04/07/20 06:23	JDD	TAL CHI

Client Sample ID: TW5 0-2.5
Date Collected: 03/30/20 10:50
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	536511	04/02/20 11:47	LWN	TAL CHI

Client Sample ID: TW5 0-2.5
Date Collected: 03/30/20 10:50
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-4
Matrix: Solid
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			536581	03/26/20 10:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	537159	04/08/20 02:23	JDD	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: TW5 2.5-5
Date Collected: 03/30/20 10:55
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	536511	04/02/20 11:47	LWN	TAL CHI

Client Sample ID: TW5 2.5-5
Date Collected: 03/30/20 10:55
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-5
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			536581	03/26/20 10:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	537159	04/08/20 02:50	JDD	TAL CHI

Client Sample ID: TW5
Date Collected: 03/30/20 12:00
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	536979	04/07/20 06:48	JDD	TAL CHI
Total/NA	Analysis	8260B	DL	10	536979	04/07/20 07:13	JDD	TAL CHI

Client Sample ID: TW4 0-2.5
Date Collected: 03/30/20 11:40
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	536511	04/02/20 11:47	LWN	TAL CHI

Client Sample ID: TW4 0-2.5
Date Collected: 03/30/20 11:40
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-7
Matrix: Solid
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			536581	03/26/20 11:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	537159	04/08/20 03:16	JDD	TAL CHI

Client Sample ID: TW4 2.5-5
Date Collected: 03/30/20 11:45
Date Received: 03/31/20 10:35

Lab Sample ID: 500-180040-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	536511	04/02/20 11:47	LWN	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 24. 28. 32 S. Main St.- 19376313

Job ID: 500-180040-1

Client Sample ID: TW4 2.5-5

Lab Sample ID: 500-180040-8
Date Collected: 03/30/20 11:45
Matrix: Solid
Date Received: 03/31/20 10:35
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			536581	03/26/20 11:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	537159	04/08/20 03:42	JDD	TAL CHI

Client Sample ID: TW4

Lab Sample ID: 500-180040-9
Date Collected: 03/30/20 12:25
Matrix: Water
Date Received: 03/31/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	536979	04/07/20 07:38	JDD	TAL CHI

Client Sample ID: DUP

Lab Sample ID: 500-180040-10
Date Collected: 03/30/20 12:26
Matrix: Water
Date Received: 03/31/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	536979	04/07/20 08:04	JDD	TAL CHI

Client Sample ID: TW7 0-2.5

Lab Sample ID: 500-180040-11
Date Collected: 03/30/20 12:35
Matrix: Solid
Date Received: 03/31/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	536511	04/02/20 11:47	LWN	TAL CHI

Client Sample ID: TW7 0-2.5

Lab Sample ID: 500-180040-11
Date Collected: 03/30/20 12:35
Matrix: Solid
Date Received: 03/31/20 10:35
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			537532	04/09/20 18:16	JP1	TAL CHI
Total/NA	Analysis	8270D		10	537620	04/10/20 20:55	AJD	TAL CHI

Client Sample ID: TW7 5-7.5

Lab Sample ID: 500-180040-12
Date Collected: 03/30/20 12:40
Matrix: Solid
Date Received: 03/31/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	536511	04/02/20 11:47	LWN	TAL CHI

Client Sample ID: TW7 5-7.5

Lab Sample ID: 500-180040-12
Date Collected: 03/30/20 12:40
Matrix: Solid
Date Received: 03/31/20 10:35
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			537532	04/09/20 18:16	JP1	TAL CHI
Total/NA	Analysis	8270D		1	537620	04/10/20 15:23	AJD	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Job ID: 500-180040-1
Project/Site: 24. 28. 32 S. Main St.- 19376313

Client Sample ID: TW7
Lab Sample ID: 500-180040-13
Date Collected: 03/30/20 12:50
Matrix: Water
Date Received: 03/31/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			536296	04/01/20 08:16	DAK	TAL CHI
Total/NA	Analysis	8270D		1	536331	04/01/20 20:00	AJD	TAL CHI

Client Sample ID: HCL TB
Lab Sample ID: 500-180040-14
Date Collected: 03/30/20 00:00
Matrix: Water
Date Received: 03/31/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	536979	04/07/20 08:29	JDD	TAL CHI

Client Sample ID: MeOH TB
Lab Sample ID: 500-180040-15
Date Collected: 03/30/20 00:00
Matrix: Solid
Date Received: 03/31/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	536511	04/02/20 11:47	LWN	TAL CHI

Client Sample ID: MeOH TB
Lab Sample ID: 500-180040-15
Date Collected: 03/30/20 00:00
Matrix: Solid
Date Received: 03/31/20 10:35
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			536783	03/30/20 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	537159	04/08/20 04:08	JDD	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Job ID: 500-180040-1
Project/Site: 24. 28. 32 S. Main St.- 19376313

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: R. Ley	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-80447-36884.1
Client Contact: Erin Gross	Phone: (262) 665-4043	E-Mail: sandie.fredrick@testamericainc.com		Page: Page ~~1 of 1~~ 1 of 2
Company: Stantec Consulting Corp				Job #: 500 - 180040
Address: 12075 Corporate Pkwy, Suite 200	Due Date Requested:		Analysis Requested	
City: Mequon	TAT Requested (days): Standard			
State, Zip: WI, 53092				
Phone: (608) 628-6278	PO #: 193706313			
Email: erin.gross@stantec.com	WO #:			
Project Name: 24, 28 & 32 S Main St 193706313	Project #: 50006565			
Site:	SSOW#:			

500-180040 COC

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOC	8270D - PAH	8260B - VOC	Total Number of containers	Special Instructions/Note:
		Preservation Code:					N	N	A		
1 TW6 0-2.5	3/30/2020	1015	G	Solid			X			2	
2 TW6 2.5-5		1020		Solid			X			2	
3 TW6		1105		~~Solid~~ Water					X	3	
4 TW5 0-2.5		1050		Solid			X			2	
5 TW5 2.5-5		1055		Solid			X			2	
6 TW5		1200		Water					X	3	
7 TW4 0-2.5		1140		~~Water~~ Solid			X			2	
8 TW4 2.5-5		1145		~~Water~~ Solid			X			2	
9 TW4		1225		water					X	3	
10 DUP		1226		water					X	3	
11 TW7 0-2.5	↓	1235	↓	Solid		ND	X			2	☆PAH only☆

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Ryan Ley	3/30/2020 1630	Stantec	Paula Bulkley	3/31/20 1035	TA CHI
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.4

Ver: 01/16/2019

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: R. Key	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-80447-36884.2 (~~500-80470-36894.1~~)
Client Contact: ~~Mike Krause~~ Erin Gross	Phone: (262) 665-4043	E-Mail: sandie.fredrick@testamericainc.com		Page: Page ~~1 of~~ 2 of 2
Company: ~~ARCADIS U.S., Inc.~~ Stantec Consulting Corp.				Job #: 500-180040
Address: 12075 Corporate Pkwy, Suite 208 ~~126 North Jefferson Street, Suite 400~~	Due Date Requested:	Analysis Requested		Preservation Codes:
City: ~~Milwaukee~~ Mequon	TAT Requested (days): Standard			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: ~~WI, 53202~~ WI, 53092				
Phone: ~~(608) 628-6278~~ (262) 665-4043	PO #: ~~20018504.00002~~ 193706313			
Email: ~~mike.krause@arcadis.com~~ Erin.gross@Stantec.com	WO #:			Other:
Project Name: ~~Brenntag/Milsolv WI000680.0049.00002~~	Project #: ~~50013696~~ 500016565			
Site	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~8260_5ml_VOC~~	8270D - PAH	VOC Trip Blank	Total Number of containers	Special Instructions/Note:
				Preservation Code:					N	A		
12	TW7 5-7.5	3/30/2020	1240	G	~~Water~~ Soil				X		2	
13	TW7	3/30/2020	1250	G	Water				X		2	
14	HCL TB	—	—	—	Water					X	1	
15	MeOH TB	—	—	—	Solid					X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Rex Key	Date/Time: 3/30/2020 1630	Company: Stantec	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver. 01/16/2019

4/13/2020


TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID:RRLA (262) 202-5955
REX KEY
STANTEC CONSULTING
12075 CORPORATE PARKWAY

MEQUON, WI 53092
UNITED STATES US

SHIP DATE: 18MAR20
ACTWGT: 25.00 LB MAN
CAD: 525155/CAFE3211

TO

TESTAMERICA CHICAGO
2417 BOND STREET

UNIVERSITY PARK IL 60484-3101
(708) 534-5200 REF:
INV:
PO: DEPT:

RMA:

FedEx Express

FedEx
TRK# 0221 7125 4942 2963

TUE - 31 MAR 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD

500-180040 Waybill

#3831830 03/30 56BJ3/9C25/FE4A

Login Sample Receipt Checklist

Client: Stantec Consulting Corp. Job Number: 500-180040-1

Login Number: 180040 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Buckley, Paula M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C – CPAH CALCULATIONS

cPAH Risk Assessment for SB-1 (0-2.5)

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

For 7 cPAHs: Individual exceedance not assessed, but assessed via a separate cumulative-only cancer risk threshold level of 5e-06.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, click "Get Summary" in Row 924 .***

(Contaminants not listed can be added starting at Row 912.)

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAHs / Comparison / Hazard Index / Cumulative Cancer Risk: cPAH Risk Threshold: **5.00E-06** — cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: **1.00E-06** — Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca						
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca						
Toluene	108-88-3	5,240.	-	818.	Csat						
Xylenes	1330-20-7	818.	-	260.	Csat						
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca						
Dichloroethane, 1,2-	107-06-2	43.7	0.652	0.652	ca						
Dibromoethane, 1,2-	106-93-4	100.	0.05	0.05	ca						
Trichloroethylene	79-01-6	5.68	1.3	1.3	ca						
Tetrachloroethylene	127-18-4	109.	33.	33.	ca						
Vinyl Chloride	75-01-4	89.2	0.067	0.067	ca						
Dichloroethylene, 1,1-	75-35-4	320.	-	320.	nc						
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc						
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc						
Trichloroethane, 1,1,1-	71-55-6	11,500.	-	640.	Csat						
Carbon Tetrachloride	56-23-5	131.	0.916	0.916	ca						
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat						
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat						
Dioxane, 1,4-	123-91-1	1,020.	5.72	5.72	ca						
Naphthalene	91-20-3	178.	5.52	5.52	ca						
Nonane, n-	111-84-2	13.4	-	6.86	Csat						
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.031	2.7E-07	*cPAH*	0.0017	2.7E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc						
Acenaphthylene	208-96-8	-	-								
Anthracene	120-12-7	17,900.	-	17,900.	nc						
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.021	1.8E-08	*cPAH*		1.8E-08
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca						
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.025	2.2E-08	*cPAH*		2.2E-08
Benzo[g,h,i]perylene	191-24-2	-	-								
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.027	2.3E-09	*cPAH*		2.3E-09
Chrysene	218-01-9	-	115.	115.	ca		0.031	2.7E-10	*cPAH*		2.7E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.007	5.8E-08	*cPAH*		5.8E-08
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca						
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca						
Fluoranthene	206-44-0	2,390.	-	2,390.	nc						
Fluorene	86-73-7	2,390.	-	2,390.	nc						
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.023	2.0E-08	*cPAH*		2.0E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca						
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc						
Nitropyrene, 4-	57835-92-4	-	0.424	0.424	ca						
Perylene	198-55-0	-	-								

Find ... Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Vanadium Pentoxide	1314-62-1	663.		528.	528.	ca						
Vernolate	1929-77-7	78.2	-		78.2	nc						
Vinclozolin	50471-44-8	75.9	-		75.9	nc						
Vinyl Acetate	108-05-4	1,300.	-		1,300.	nc						
Vinyl Bromide	593-60-2	6.18		0.173	0.173	ca						
Warfarin	81-81-2	19.	-		19.	nc						
Xylene, m-	108-38-3	783.	-		388.	Csat						
Xylene, o-	95-47-6	915.	-		434.	Csat						
Xylene, P-	106-42-3	798.	-		390.	Csat						
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc						
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc						
Zineb	12122-67-7	3,160.	-		3,160.	nc						
Zirconium	7440-67-7	6.26	-		6.26	nc						
Test1Chem(DRO)	Wis. DRO											
Test2Chem(GRO)	Wis. GRO											
Test3Chem(TPH)	TPH											

Type BRRTS No. Here (If Known)

3.9E-07	0	0.0017	3.9E-07
cPAH Risk ≤ 5e-06 (to pass)	Exceedance Count = 0 (to pass)	HI ≤ 1.0 (to pass)	Cumulative CR ≤ 1e-05 (to pass)

Bottom-Line:

7. 03/14/2017 Yes, levels are below direct-contact concern.

cPAH Risk Assessment for SB-2 (2.5-5)

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

For 7 cPAHs: Individual exceedance not assessed, but assessed via a separate cumulative-only cancer risk threshold level of 5e-06.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, click "Get Summary" in Row 924 .***

(Contaminants not listed can be added starting at Row 912.)

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAHs / Comparison / Hazard Index / Cumulative Cancer Risk: cPAH Risk Threshold: **5.00E-06** — cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: **1.00E-06** — Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca						
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca						
Toluene	108-88-3	5,240.	-	818.	Csat						
Xylenes	1330-20-7	818.	-	260.	Csat						
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca						
Dichloroethane, 1,2-	107-06-2	43.7	0.652	0.652	ca						
Dibromoethane, 1,2-	106-93-4	100.	0.05	0.05	ca						
Trichloroethylene	79-01-6	5.68	1.3	1.3	ca						
Tetrachloroethylene	127-18-4	109.	33.	33.	ca						
Vinyl Chloride	75-01-4	89.2	0.067	0.067	ca						
Dichloroethylene, 1,1-	75-35-4	320.	-	320.	nc						
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc						
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc						
Trichloroethane, 1,1,1-	71-55-6	11,500.	-	640.	Csat						
Carbon Tetrachloride	56-23-5	131.	0.916	0.916	ca						
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat						
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat						
Dioxane, 1,4-	123-91-1	1,020.	5.72	5.72	ca						
Naphthalene	91-20-3	178.	5.52	5.52	ca						
Nonane, n-	111-84-2	13.4	-	6.86	Csat						
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.011	9.6E-08	*cPAH*	0.0006	9.6E-08
Acenaphthene	83-32-9	3,590.	-	3,590.	nc						
Acenaphthylene	208-96-8	-	-								
Anthracene	120-12-7	17,900.	-	17,900.	nc						
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.005	4.4E-09	*cPAH*		4.4E-09
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca						
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.013	1.1E-08	*cPAH*		1.1E-08
Benzo[g,h,i]perylene	191-24-2	-	-								
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.011	9.6E-10	*cPAH*		9.6E-10
Chrysene	218-01-9	-	115.	115.	ca		0.01	8.7E-11	*cPAH*		8.7E-11
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.007	6.3E-08	*cPAH*		6.3E-08
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca						
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca						
Fluoranthene	206-44-0	2,390.	-	2,390.	nc						
Fluorene	86-73-7	2,390.	-	2,390.	nc						
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.023	2.0E-08	*cPAH*		2.0E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca						
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc						
Nitropyrene, 4-	57835-92-4	-	0.424	0.424	ca						
Perylene	198-55-0	-	-								

Find ... Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Vanadium Pentoxide	1314-62-1	663.		528.	528.	ca						
Vernolate	1929-77-7	78.2	-		78.2	nc						
Vinclozolin	50471-44-8	75.9	-		75.9	nc						
Vinyl Acetate	108-05-4	1,300.	-		1,300.	nc						
Vinyl Bromide	593-60-2	6.18		0.173	0.173	ca						
Warfarin	81-81-2	19.	-		19.	nc						
Xylene, m-	108-38-3	783.	-		388.	Csat						
Xylene, o-	95-47-6	915.	-		434.	Csat						
Xylene, P-	106-42-3	798.	-		390.	Csat						
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc						
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc						
Zineb	12122-67-7	3,160.	-		3,160.	nc						
Zirconium	7440-67-7	6.26	-		6.26	nc						
Test1Chem(DRO)	Wis. DRO											
Test2Chem(GRO)	Wis. GRO											
Test3Chem(TPH)	TPH											

Type BRRTS No. Here (If Known)

1.9E-07	0	0.0006	1.9E-07
cPAH Risk ≤ 5e-06 (to pass)	Exceedance Count = 0 (to pass)	HI ≤ 1.0 (to pass)	Cumulative CR ≤ 1e-05 (to pass)

Bottom-Line:

7. 03/14/2017 Yes, levels are below direct-contact concern.

cPAH Risk Assessment for SB-3 (0-1)

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

For 7 cPAHs: Individual exceedance not assessed, but assessed via a separate cumulative-only cancer risk threshold level of 5e-06.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, click "Get Summary" in Row 924 .***

(Contaminants not listed can be added starting at Row 912.)

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAHs / Comparison / Hazard Index / Cumulative Cancer Risk: cPAH Risk Threshold: **5.00E-06** — cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: **1.00E-06** — Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca						
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca						
Toluene	108-88-3	5,240.	-	818.	Csat						
Xylenes	1330-20-7	818.	-	260.	Csat						
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca						
Dichloroethane, 1,2-	107-06-2	43.7	0.652	0.652	ca						
Dibromoethane, 1,2-	106-93-4	100.	0.05	0.05	ca						
Trichloroethylene	79-01-6	5.68	1.3	1.3	ca						
Tetrachloroethylene	127-18-4	109.	33.	33.	ca						
Vinyl Chloride	75-01-4	89.2	0.067	0.067	ca						
Dichloroethylene, 1,1-	75-35-4	320.	-	320.	nc						
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc						
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc						
Trichloroethane, 1,1,1-	71-55-6	11,500.	-	640.	Csat						
Carbon Tetrachloride	56-23-5	131.	0.916	0.916	ca						
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat						
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat						
Dioxane, 1,4-	123-91-1	1,020.	5.72	5.72	ca						
Naphthalene	91-20-3	178.	5.52	5.52	ca						
Nonane, n-	111-84-2	13.4	-	6.86	Csat						
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		4.7	4.1E-05	*cPAH*	0.264	4.1E-05
Acenaphthene	83-32-9	3,590.	-	3,590.	nc						
Acenaphthylene	208-96-8	-	-								
Anthracene	120-12-7	17,900.	-	17,900.	nc						
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		3.8	3.3E-06	*cPAH*		3.3E-06
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca						
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		6.3	5.5E-06	*cPAH*		5.5E-06
Benzo[g,h,i]perylene	191-24-2	-	-								
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		2.7	2.3E-07	*cPAH*		2.3E-07
Chrysene	218-01-9	-	115.	115.	ca		4.3	3.7E-08	*cPAH*		3.7E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.45	3.9E-06	*cPAH*		3.9E-06
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca						
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca						
Fluoranthene	206-44-0	2,390.	-	2,390.	nc						
Fluorene	86-73-7	2,390.	-	2,390.	nc						
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		1.6	1.4E-06	*cPAH*		1.4E-06
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca						
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc						
Nitropyrene, 4-	57835-92-4	-	0.424	0.424	ca						
Perylene	198-55-0	-	-								

Find ... Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Vanadium Pentoxide	1314-62-1	663.		528.	528.	ca						
Vernolate	1929-77-7	78.2	-		78.2	nc						
Vinclozolin	50471-44-8	75.9	-		75.9	nc						
Vinyl Acetate	108-05-4	1,300.	-		1,300.	nc						
Vinyl Bromide	593-60-2	6.18		0.173	0.173	ca						
Warfarin	81-81-2	19.	-		19.	nc						
Xylene, m-	108-38-3	783.	-		388.	Csat						
Xylene, o-	95-47-6	915.	-		434.	Csat						
Xylene, P-	106-42-3	798.	-		390.	Csat						
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc						
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc						
Zineb	12122-67-7	3,160.	-		3,160.	nc						
Zirconium	7440-67-7	6.26	-		6.26	nc						
Test1Chem(DRO)	Wis. DRO											
Test2Chem(GRO)	Wis. GRO											
Test3Chem(TPH)	TPH											

Type BRRTS No. Here (If Known)

5.5E-05	0	0.264	5.5E-05
cPAH Risk ≤ 5e-06 (to pass)	Exceedance Count = 0 (to pass)	HI ≤ 1.0 (to pass)	Cumulative CR ≤ 1e-05 (to pass)

Bottom-Line:

7. 03/14/2017

NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.

cPAH Risk Assessment for SB-4 (0-2.5)

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

For 7 cPAHs: Individual exceedance not assessed, but assessed via a separate cumulative-only cancer risk threshold level of 5e-06.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, click "Get Summary" in Row 924 .***

(Contaminants not listed can be added starting at Row 912.)

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAHs / Comparison / Hazard Index / Cumulative Cancer Risk: cPAH Risk Threshold: **5.00E-06** — cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: **1.00E-06** — Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca						
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca						
Toluene	108-88-3	5,240.	-	818.	Csat						
Xylenes	1330-20-7	818.	-	260.	Csat						
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca						
Dichloroethane, 1,2-	107-06-2	43.7	0.652	0.652	ca						
Dibromoethane, 1,2-	106-93-4	100.	0.05	0.05	ca						
Trichloroethylene	79-01-6	5.68	1.3	1.3	ca						
Tetrachloroethylene	127-18-4	109.	33.	33.	ca						
Vinyl Chloride	75-01-4	89.2	0.067	0.067	ca						
Dichloroethylene, 1,1-	75-35-4	320.	-	320.	nc						
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc						
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc						
Trichloroethane, 1,1,1-	71-55-6	11,500.	-	640.	Csat						
Carbon Tetrachloride	56-23-5	131.	0.916	0.916	ca						
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat						
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat						
Dioxane, 1,4-	123-91-1	1,020.	5.72	5.72	ca						
Naphthalene	91-20-3	178.	5.52	5.52	ca						
Nonane, n-	111-84-2	13.4	-	6.86	Csat						
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		1.5	1.3E-05	*cPAH*	0.0843	1.3E-05
Acenaphthene	83-32-9	3,590.	-	3,590.	nc						
Acenaphthylene	208-96-8	-	-								
Anthracene	120-12-7	17,900.	-	17,900.	nc						
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.046	4.0E-08	*cPAH*		4.0E-08
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca						
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		1.5	1.3E-06	*cPAH*		1.3E-06
Benzo[g,h,i]perylene	191-24-2	-	-								
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		1.3	1.1E-07	*cPAH*		1.1E-07
Chrysene	218-01-9	-	115.	115.	ca		1.5	1.3E-08	*cPAH*		1.3E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.066	5.7E-07	*cPAH*		5.7E-07
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca						
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca						
Fluoranthene	206-44-0	2,390.	-	2,390.	nc						
Fluorene	86-73-7	2,390.	-	2,390.	nc						
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.43	3.7E-07	*cPAH*		3.7E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca						
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc						
Nitropyrene, 4-	57835-92-4	-	0.424	0.424	ca						
Perylene	198-55-0	-	-								

Find ... Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Vanadium Pentoxide	1314-62-1	663.		528.	528.	ca						
Vernolate	1929-77-7	78.2	-		78.2	nc						
Vinclozolin	50471-44-8	75.9	-		75.9	nc						
Vinyl Acetate	108-05-4	1,300.	-		1,300.	nc						
Vinyl Bromide	593-60-2	6.18		0.173	0.173	ca						
Warfarin	81-81-2	19.	-		19.	nc						
Xylene, m-	108-38-3	783.	-		388.	Csat						
Xylene, o-	95-47-6	915.	-		434.	Csat						
Xylene, P-	106-42-3	798.	-		390.	Csat						
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc						
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc						
Zineb	12122-67-7	3,160.	-		3,160.	nc						
Zirconium	7440-67-7	6.26	-		6.26	nc						
Test1Chem(DRO)	Wis. DRO											
Test2Chem(GRO)	Wis. GRO											
Test3Chem(TPH)	TPH											

Type BRRTS No. Here (If Known)

1.5E-05	0	0.0843	1.5E-05
cPAH Risk ≤ 5e-06 (to pass)	Exceedance Count = 0 (to pass)	HI ≤ 1.0 (to pass)	Cumulative CR ≤ 1e-05 (to pass)

Bottom-Line:

7. 03/14/2017

NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.

cPAH Risk Assessment for SB-5 (0-2.5)

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

For 7 cPAHs: Individual exceedance not assessed, but assessed via a separate cumulative-only cancer risk threshold level of 5e-06.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, click "Get Summary" in Row 924 .***

(Contaminants not listed can be added starting at Row 912.)

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAHs / Comparison / Hazard Index / Cumulative Cancer Risk: cPAH Risk Threshold: **5.00E-06** — cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: **1.00E-06** — Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca						
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca						
Toluene	108-88-3	5,240.	-	818.	Csat						
Xylenes	1330-20-7	818.	-	260.	Csat						
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca						
Dichloroethane, 1,2-	107-06-2	43.7	0.652	0.652	ca						
Dibromoethane, 1,2-	106-93-4	100.	0.05	0.05	ca						
Trichloroethylene	79-01-6	5.68	1.3	1.3	ca						
Tetrachloroethylene	127-18-4	109.	33.	33.	ca						
Vinyl Chloride	75-01-4	89.2	0.067	0.067	ca						
Dichloroethylene, 1,1-	75-35-4	320.	-	320.	nc						
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc						
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc						
Trichloroethane, 1,1,1-	71-55-6	11,500.	-	640.	Csat						
Carbon Tetrachloride	56-23-5	131.	0.916	0.916	ca						
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat						
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat						
Dioxane, 1,4-	123-91-1	1,020.	5.72	5.72	ca						
Naphthalene	91-20-3	178.	5.52	5.52	ca						
Nonane, n-	111-84-2	13.4	-	6.86	Csat						
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.53	4.6E-06	*cPAH*	0.0298	4.6E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc						
Acenaphthylene	208-96-8	-	-								
Anthracene	120-12-7	17,900.	-	17,900.	nc						
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.024	2.1E-08	*cPAH*		2.1E-08
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca						
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.62	5.4E-07	*cPAH*		5.4E-07
Benzo[g,h,i]perylene	191-24-2	-	-								
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.29	2.5E-08	*cPAH*		2.5E-08
Chrysene	218-01-9	-	115.	115.	ca		0.56	4.9E-09	*cPAH*		4.9E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.034	3.0E-07	*cPAH*		3.0E-07
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca						
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca						
Fluoranthene	206-44-0	2,390.	-	2,390.	nc						
Fluorene	86-73-7	2,390.	-	2,390.	nc						
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.2	1.7E-07	*cPAH*		1.7E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca						
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc						
Nitropyrene, 4-	57835-92-4	-	0.424	0.424	ca						
Perylene	198-55-0	-	-								

Find ... Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Vanadium Pentoxide	1314-62-1	663.		528.	528.	ca						
Vernolate	1929-77-7	78.2	-		78.2	nc						
Vinclozolin	50471-44-8	75.9	-		75.9	nc						
Vinyl Acetate	108-05-4	1,300.	-		1,300.	nc						
Vinyl Bromide	593-60-2	6.18		0.173	0.173	ca						
Warfarin	81-81-2	19.	-		19.	nc						
Xylene, m-	108-38-3	783.	-		388.	Csat						
Xylene, o-	95-47-6	915.	-		434.	Csat						
Xylene, P-	106-42-3	798.	-		390.	Csat						
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc						
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc						
Zineb	12122-67-7	3,160.	-		3,160.	nc						
Zirconium	7440-67-7	6.26	-		6.26	nc						
Test1Chem(DRO)	Wis. DRO											
Test2Chem(GRO)	Wis. GRO											
Test3Chem(TPH)	TPH											

Type BRRTS No. Here (If Known)

5.7E-06	0	0.0298	5.7E-06
cPAH Risk ≤ 5e-06 (to pass)	Exceedance Count = 0 (to pass)	HI ≤ 1.0 (to pass)	Cumulative CR ≤ 1e-05 (to pass)

Bottom-Line:

7. 03/14/2017

NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.

cPAH Risk Assessment for SB-6 (0-2.5)

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

For 7 cPAHs: Individual exceedance not assessed, but assessed via a separate cumulative-only cancer risk threshold level of 5e-06.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, click "Get Summary" in Row 924 .***

(Contaminants not listed can be added starting at Row 912.)

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAHs / Comparison / Hazard Index / Cumulative Cancer Risk: cPAH Risk Threshold: **5.00E-06** — cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: **1.00E-06** — Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca						
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca						
Toluene	108-88-3	5,240.	-	818.	Csat						
Xylenes	1330-20-7	818.	-	260.	Csat						
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca						
Dichloroethane, 1,2-	107-06-2	43.7	0.652	0.652	ca						
Dibromoethane, 1,2-	106-93-4	100.	0.05	0.05	ca						
Trichloroethylene	79-01-6	5.68	1.3	1.3	ca						
Tetrachloroethylene	127-18-4	109.	33.	33.	ca						
Vinyl Chloride	75-01-4	89.2	0.067	0.067	ca						
Dichloroethylene, 1,1-	75-35-4	320.	-	320.	nc						
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc						
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc						
Trichloroethane, 1,1,1-	71-55-6	11,500.	-	640.	Csat						
Carbon Tetrachloride	56-23-5	131.	0.916	0.916	ca						
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat						
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat						
Dioxane, 1,4-	123-91-1	1,020.	5.72	5.72	ca						
Naphthalene	91-20-3	178.	5.52	5.52	ca						
Nonane, n-	111-84-2	13.4	-	6.86	Csat						
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.11	9.6E-07	*cPAH*	0.0062	9.6E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc						
Acenaphthylene	208-96-8	-	-								
Anthracene	120-12-7	17,900.	-	17,900.	nc						
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.054	4.7E-08	*cPAH*		4.7E-08
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca						
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.12	1.0E-07	*cPAH*		1.0E-07
Benzo[g,h,i]perylene	191-24-2	-	-								
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.056	4.9E-09	*cPAH*		4.9E-09
Chrysene	218-01-9	-	115.	115.	ca		0.15	1.3E-09	*cPAH*		1.3E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.037	3.2E-07	*cPAH*		3.2E-07
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca						
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca						
Fluoranthene	206-44-0	2,390.	-	2,390.	nc						
Fluorene	86-73-7	2,390.	-	2,390.	nc						
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.049	4.3E-08	*cPAH*		4.3E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca						
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc						
Nitropyrene, 4-	57835-92-4	-	0.424	0.424	ca						
Perylene	198-55-0	-	-								

Find ... Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Vanadium Pentoxide	1314-62-1	663.		528.	528.	ca						
Vernolate	1929-77-7	78.2	-		78.2	nc						
Vinclozolin	50471-44-8	75.9	-		75.9	nc						
Vinyl Acetate	108-05-4	1,300.	-		1,300.	nc						
Vinyl Bromide	593-60-2	6.18		0.173	0.173	ca						
Warfarin	81-81-2	19.	-		19.	nc						
Xylene, m-	108-38-3	783.	-		388.	Csat						
Xylene, o-	95-47-6	915.	-		434.	Csat						
Xylene, P-	106-42-3	798.	-		390.	Csat						
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc						
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc						
Zineb	12122-67-7	3,160.	-		3,160.	nc						
Zirconium	7440-67-7	6.26	-		6.26	nc						
Test1Chem(DRO)	Wis. DRO											
Test2Chem(GRO)	Wis. GRO											
Test3Chem(TPH)	TPH											

Type BRRTS No. Here (If Known)

1.5E-06	0	0.0062	1.5E-06
cPAH Risk ≤ 5e-06 (to pass)	Exceedance Count = 0 (to pass)	HI ≤ 1.0 (to pass)	Cumulative CR ≤ 1e-05 (to pass)

Bottom-Line:

7. 03/14/2017 Yes, levels are below direct-contact concern.

cPAH Risk Assessment for TW-1 (2.5-5)

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

For 7 cPAHs: Individual exceedance not assessed, but assessed via a separate cumulative-only cancer risk threshold level of 5e-06.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, click "Get Summary" in Row 924 .***

(Contaminants not listed can be added starting at Row 912.)

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAHs / Comparison / Hazard Index / Cumulative Cancer Risk: cPAH Risk Threshold: **5.00E-06** — cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: **1.00E-06** — Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca						
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca						
Toluene	108-88-3	5,240.	-	818.	Csat						
Xylenes	1330-20-7	818.	-	260.	Csat						
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca						
Dichloroethane, 1,2-	107-06-2	43.7	0.652	0.652	ca						
Dibromoethane, 1,2-	106-93-4	100.	0.05	0.05	ca						
Trichloroethylene	79-01-6	5.68	1.3	1.3	ca						
Tetrachloroethylene	127-18-4	109.	33.	33.	ca						
Vinyl Chloride	75-01-4	89.2	0.067	0.067	ca						
Dichloroethylene, 1,1-	75-35-4	320.	-	320.	nc						
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc						
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc						
Trichloroethane, 1,1,1-	71-55-6	11,500.	-	640.	Csat						
Carbon Tetrachloride	56-23-5	131.	0.916	0.916	ca						
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat						
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat						
Dioxane, 1,4-	123-91-1	1,020.	5.72	5.72	ca						
Naphthalene	91-20-3	178.	5.52	5.52	ca						
Nonane, n-	111-84-2	13.4	-	6.86	Csat						
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.59	5.1E-06	*cPAH*	0.0331	5.1E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc						
Acenaphthylene	208-96-8	-	-								
Anthracene	120-12-7	17,900.	-	17,900.	nc						
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.59	5.2E-07	*cPAH*		5.2E-07
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca						
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.68	5.9E-07	*cPAH*		5.9E-07
Benzo[g,h,i]perylene	191-24-2	-	-								
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.24	2.1E-08	*cPAH*		2.1E-08
Chrysene	218-01-9	-	115.	115.	ca		0.63	5.5E-09	*cPAH*		5.5E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.068	5.9E-07	*cPAH*		5.9E-07
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca						
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca						
Fluoranthene	206-44-0	2,390.	-	2,390.	nc						
Fluorene	86-73-7	2,390.	-	2,390.	nc						
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.32	2.8E-07	*cPAH*		2.8E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca						
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc						
Nitropyrene, 4-	57835-92-4	-	0.424	0.424	ca						
Perylene	198-55-0	-	-								

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Vanadium Pentoxide	1314-62-1	663.	528.	528.	ca						
Vernolate	1929-77-7	78.2	-	78.2	nc						
Vinclozolin	50471-44-8	75.9	-	75.9	nc						
Vinyl Acetate	108-05-4	1,300.	-	1,300.	nc						
Vinyl Bromide	593-60-2	6.18	0.173	0.173	ca						
Warfarin	81-81-2	19.	-	19.	nc						
Xylene, m-	108-38-3	783.	-	388.	Csat						
Xylene, o-	95-47-6	915.	-	434.	Csat						
Xylene, P-	106-42-3	798.	-	390.	Csat						
Zinc Cyanide	557-21-1	3,910.	-	3,910.	nc						
Zinc Phosphide	1314-84-7	23.5	-	23.5	nc						
Zineb	12122-67-7	3,160.	-	3,160.	nc						
Zirconium	7440-67-7	6.26	-	6.26	nc						
Test1Chem(DRO)	Wis. DRO										
Test2Chem(GRO)	Wis. GRO										
Test3Chem(TPH)	TPH										

Type BRRTS No. Here (If Known)

7.1E-06	0	0.0331	7.1E-06
cPAH Risk ≤ 5e-06 (to pass)	Exceedance Count = 0 (to pass)	HI ≤ 1.0 (to pass)	Cumulative CR ≤ 1e-05 (to pass)

Bottom-Line:

7. 03/14/2017

NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.

cPAH Risk Assessment for TW-1/DUP-2 (2.5-5)

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

For 7 cPAHs: Individual exceedance not assessed, but assessed via a separate cumulative-only cancer risk threshold level of 5e-06.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, click "Get Summary" in Row 924 .***

(Contaminants not listed can be added starting at Row 912.)

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAHs / Comparison / Hazard Index / Cumulative Cancer Risk: cPAH Risk Threshold: **5.00E-06** — cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: **1.00E-06** — Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca						
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca						
Toluene	108-88-3	5,240.	-	818.	Csat						
Xylenes	1330-20-7	818.	-	260.	Csat						
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca						
Dichloroethane, 1,2-	107-06-2	43.7	0.652	0.652	ca						
Dibromoethane, 1,2-	106-93-4	100.	0.05	0.05	ca						
Trichloroethylene	79-01-6	5.68	1.3	1.3	ca						
Tetrachloroethylene	127-18-4	109.	33.	33.	ca						
Vinyl Chloride	75-01-4	89.2	0.067	0.067	ca						
Dichloroethylene, 1,1-	75-35-4	320.	-	320.	nc						
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc						
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc						
Trichloroethane, 1,1,1-	71-55-6	11,500.	-	640.	Csat						
Carbon Tetrachloride	56-23-5	131.	0.916	0.916	ca						
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat						
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat						
Dioxane, 1,4-	123-91-1	1,020.	5.72	5.72	ca						
Naphthalene	91-20-3	178.	5.52	5.52	ca						
Nonane, n-	111-84-2	13.4	-	6.86	Csat						
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.06	5.2E-07	*cPAH*	0.0034	5.2E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc						
Acenaphthylene	208-96-8	-	-								
Anthracene	120-12-7	17,900.	-	17,900.	nc						
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.058	5.1E-08	*cPAH*		5.1E-08
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca						
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.063	5.5E-08	*cPAH*		5.5E-08
Benzo[g,h,i]perylene	191-24-2	-	-								
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.029	2.5E-09	*cPAH*		2.5E-09
Chrysene	218-01-9	-	115.	115.	ca		0.063	5.5E-10	*cPAH*		5.5E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.01	8.7E-08	*cPAH*		8.7E-08
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca						
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca						
Fluoranthene	206-44-0	2,390.	-	2,390.	nc						
Fluorene	86-73-7	2,390.	-	2,390.	nc						
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.04	3.5E-08	*cPAH*		3.5E-08
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca						
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc						
Nitropyrene, 4-	57835-92-4	-	0.424	0.424	ca						
Perylene	198-55-0	-	-								

Find ... Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Vanadium Pentoxide	1314-62-1	663.		528.	528.	ca						
Vernolate	1929-77-7	78.2	-		78.2	nc						
Vinclozolin	50471-44-8	75.9	-		75.9	nc						
Vinyl Acetate	108-05-4	1,300.	-		1,300.	nc						
Vinyl Bromide	593-60-2	6.18		0.173	0.173	ca						
Warfarin	81-81-2	19.	-		19.	nc						
Xylene, m-	108-38-3	783.	-		388.	Csat						
Xylene, o-	95-47-6	915.	-		434.	Csat						
Xylene, P-	106-42-3	798.	-		390.	Csat						
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc						
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc						
Zineb	12122-67-7	3,160.	-		3,160.	nc						
Zirconium	7440-67-7	6.26	-		6.26	nc						
Test1Chem(DRO)	Wis. DRO											
Test2Chem(GRO)	Wis. GRO											
Test3Chem(TPH)	TPH											

Type BRRTS No. Here (If Known)

7.5E-07	0	0.0034	7.5E-07
cPAH Risk ≤ 5e-06 (to pass)	Exceedance Count = 0 (to pass)	HI ≤ 1.0 (to pass)	Cumulative CR ≤ 1e-05 (to pass)

Bottom-Line:

7. 03/14/2017 Yes, levels are below direct-contact concern.

cPAH Risk Assessment for TW-2 (0-2.5)

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

For 7 cPAHs: Individual exceedance not assessed, but assessed via a separate cumulative-only cancer risk threshold level of 5e-06.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, click "Get Summary" in Row 924 .***

(Contaminants not listed can be added starting at Row 912.)

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAHs / Comparison / Hazard Index / Cumulative Cancer Risk: cPAH Risk Threshold: **5.00E-06** — cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: **1.00E-06** — Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca						
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca						
Toluene	108-88-3	5,240.	-	818.	Csat						
Xylenes	1330-20-7	818.	-	260.	Csat						
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca						
Dichloroethane, 1,2-	107-06-2	43.7	0.652	0.652	ca						
Dibromoethane, 1,2-	106-93-4	100.	0.05	0.05	ca						
Trichloroethylene	79-01-6	5.68	1.3	1.3	ca						
Tetrachloroethylene	127-18-4	109.	33.	33.	ca						
Vinyl Chloride	75-01-4	89.2	0.067	0.067	ca						
Dichloroethylene, 1,1-	75-35-4	320.	-	320.	nc						
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc						
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc						
Trichloroethane, 1,1,1-	71-55-6	11,500.	-	640.	Csat						
Carbon Tetrachloride	56-23-5	131.	0.916	0.916	ca						
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat						
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat						
Dioxane, 1,4-	123-91-1	1,020.	5.72	5.72	ca						
Naphthalene	91-20-3	178.	5.52	5.52	ca						
Nonane, n-	111-84-2	13.4	-	6.86	Csat						
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.014	1.2E-07	*cPAH*	0.0008	1.2E-07
Acenaphthene	83-32-9	3,590.	-	3,590.	nc						
Acenaphthylene	208-96-8	-	-								
Anthracene	120-12-7	17,900.	-	17,900.	nc						
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.005	4.5E-09	*cPAH*		4.5E-09
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca						
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.013	1.1E-08	*cPAH*		1.1E-08
Benzo[g,h,i]perylene	191-24-2	-	-								
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.011	9.6E-10	*cPAH*		9.6E-10
Chrysene	218-01-9	-	115.	115.	ca		0.012	1.0E-10	*cPAH*		1.0E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.007	6.4E-08	*cPAH*		6.4E-08
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca						
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca						
Fluoranthene	206-44-0	2,390.	-	2,390.	nc						
Fluorene	86-73-7	2,390.	-	2,390.	nc						
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.011	9.6E-09	*cPAH*		9.6E-09
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca						
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc						
Nitropyrene, 4-	57835-92-4	-	0.424	0.424	ca						
Perylene	198-55-0	-	-								

Find ... Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Vanadium Pentoxide	1314-62-1	663.		528.	528.	ca						
Vernolate	1929-77-7	78.2	-		78.2	nc						
Vinclozolin	50471-44-8	75.9	-		75.9	nc						
Vinyl Acetate	108-05-4	1,300.	-		1,300.	nc						
Vinyl Bromide	593-60-2	6.18		0.173	0.173	ca						
Warfarin	81-81-2	19.	-		19.	nc						
Xylene, m-	108-38-3	783.	-		388.	Csat						
Xylene, o-	95-47-6	915.	-		434.	Csat						
Xylene, P-	106-42-3	798.	-		390.	Csat						
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc						
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc						
Zineb	12122-67-7	3,160.	-		3,160.	nc						
Zirconium	7440-67-7	6.26	-		6.26	nc						
Test1Chem(DRO)	Wis. DRO											
Test2Chem(GRO)	Wis. GRO											
Test3Chem(TPH)	TPH											

Type BRRTS No. Here (If Known)

2.1E-07	0	0.0008	2.1E-07
cPAH Risk ≤ 5e-06 (to pass)	Exceedance Count = 0 (to pass)	HI ≤ 1.0 (to pass)	Cumulative CR ≤ 1e-05 (to pass)

Bottom-Line:

7. 03/14/2017 Yes, levels are below direct-contact concern.

cPAH Risk Assessment for TW-3 (3-5)

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

For 7 cPAHs: Individual exceedance not assessed, but assessed via a separate cumulative-only cancer risk threshold level of 5e-06.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, click "Get Summary" in Row 924 .***

(Contaminants not listed can be added starting at Row 912.)

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAHs / Comparison / Hazard Index / Cumulative Cancer Risk: cPAH Risk Threshold: **5.00E-06** — cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: **1.00E-06** — Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca						
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca						
Toluene	108-88-3	5,240.	-	818.	Csat						
Xylenes	1330-20-7	818.	-	260.	Csat						
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca						
Dichloroethane, 1,2-	107-06-2	43.7	0.652	0.652	ca						
Dibromoethane, 1,2-	106-93-4	100.	0.05	0.05	ca						
Trichloroethylene	79-01-6	5.68	1.3	1.3	ca						
Tetrachloroethylene	127-18-4	109.	33.	33.	ca						
Vinyl Chloride	75-01-4	89.2	0.067	0.067	ca						
Dichloroethylene, 1,1-	75-35-4	320.	-	320.	nc						
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc						
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc						
Trichloroethane, 1,1,1-	71-55-6	11,500.	-	640.	Csat						
Carbon Tetrachloride	56-23-5	131.	0.916	0.916	ca						
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat						
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat						
Dioxane, 1,4-	123-91-1	1,020.	5.72	5.72	ca						
Naphthalene	91-20-3	178.	5.52	5.52	ca						
Nonane, n-	111-84-2	13.4	-	6.86	Csat						
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.38	3.3E-06	*cPAH*	0.0213	3.3E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc						
Acenaphthylene	208-96-8	-	-								
Anthracene	120-12-7	17,900.	-	17,900.	nc						
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.24	2.1E-07	*cPAH*		2.1E-07
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca						
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.68	5.9E-07	*cPAH*		5.9E-07
Benzo[g,h,i]perylene	191-24-2	-	-								
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.68	5.9E-08	*cPAH*		5.9E-08
Chrysene	218-01-9	-	115.	115.	ca		0.38	3.3E-09	*cPAH*		3.3E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.034	3.0E-07	*cPAH*		3.0E-07
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca						
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca						
Fluoranthene	206-44-0	2,390.	-	2,390.	nc						
Fluorene	86-73-7	2,390.	-	2,390.	nc						
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.17	1.5E-07	*cPAH*		1.5E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca						
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc						
Nitropyrene, 4-	57835-92-4	-	0.424	0.424	ca						
Perylene	198-55-0	-	-								

Find ... Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Vanadium Pentoxide	1314-62-1	663.		528.	528.	ca						
Vernolate	1929-77-7	78.2	-		78.2	nc						
Vinclozolin	50471-44-8	75.9	-		75.9	nc						
Vinyl Acetate	108-05-4	1,300.	-		1,300.	nc						
Vinyl Bromide	593-60-2	6.18		0.173	0.173	ca						
Warfarin	81-81-2	19.	-		19.	nc						
Xylene, m-	108-38-3	783.	-		388.	Csat						
Xylene, o-	95-47-6	915.	-		434.	Csat						
Xylene, P-	106-42-3	798.	-		390.	Csat						
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc						
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc						
Zineb	12122-67-7	3,160.	-		3,160.	nc						
Zirconium	7440-67-7	6.26	-		6.26	nc						
Test1Chem(DRO)	Wis. DRO											
Test2Chem(GRO)	Wis. GRO											
Test3Chem(TPH)	TPH											

Type BRRTS No. Here (If Known)

4.6E-06	0	0.0213	4.6E-06
cPAH Risk ≤ 5e-06 (to pass)	Exceedance Count = 0 (to pass)	HI ≤ 1.0 (to pass)	Cumulative CR ≤ 1e-05 (to pass)

Bottom-Line:

7. 03/14/2017 Yes, levels are below direct-contact concern.

cPAH Risk Assessment for TW-7 (0-2.5)

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

For 7 cPAHs: Individual exceedance not assessed, but assessed via a separate cumulative-only cancer risk threshold level of 5e-06.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, click "Get Summary" in Row 924 .***

(Contaminants not listed can be added starting at Row 912.)

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAHs / Comparison / Hazard Index / Cumulative Cancer Risk: cPAH Risk Threshold: **5.00E-06** — cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: **1.00E-06** — Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca						
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca						
Toluene	108-88-3	5,240.	-	818.	Csat						
Xylenes	1330-20-7	818.	-	260.	Csat						
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca						
Dichloroethane, 1,2-	107-06-2	43.7	0.652	0.652	ca						
Dibromoethane, 1,2-	106-93-4	100.	0.05	0.05	ca						
Trichloroethylene	79-01-6	5.68	1.3	1.3	ca						
Tetrachloroethylene	127-18-4	109.	33.	33.	ca						
Vinyl Chloride	75-01-4	89.2	0.067	0.067	ca						
Dichloroethylene, 1,1-	75-35-4	320.	-	320.	nc						
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc						
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc						
Trichloroethane, 1,1,1-	71-55-6	11,500.	-	640.	Csat						
Carbon Tetrachloride	56-23-5	131.	0.916	0.916	ca						
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat						
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat						
Dioxane, 1,4-	123-91-1	1,020.	5.72	5.72	ca						
Naphthalene	91-20-3	178.	5.52	5.52	ca						
Nonane, n-	111-84-2	13.4	-	6.86	Csat						
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		4.8	4.2E-05	*cPAH*	0.2697	4.2E-05
Acenaphthene	83-32-9	3,590.	-	3,590.	nc						
Acenaphthylene	208-96-8	-	-								
Anthracene	120-12-7	17,900.	-	17,900.	nc						
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		4.5	3.9E-06	*cPAH*		3.9E-06
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca						
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		6.7	5.8E-06	*cPAH*		5.8E-06
Benzo[g,h,i]perylene	191-24-2	-	-								
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		2.9	2.5E-07	*cPAH*		2.5E-07
Chrysene	218-01-9	-	115.	115.	ca		4.6	4.0E-08	*cPAH*		4.0E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.73	6.3E-06	*cPAH*		6.3E-06
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca						
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca						
Fluoranthene	206-44-0	2,390.	-	2,390.	nc						
Fluorene	86-73-7	2,390.	-	2,390.	nc						
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		1.4	1.2E-06	*cPAH*		1.2E-06
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca						
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc						
Nitropyrene, 4-	57835-92-4	-	0.424	0.424	ca						
Perylene	198-55-0	-	-								

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Vanadium Pentoxide	1314-62-1	663.	528.	528.	ca						
Vernolate	1929-77-7	78.2	-	78.2	nc						
Vinclozolin	50471-44-8	75.9	-	75.9	nc						
Vinyl Acetate	108-05-4	1,300.	-	1,300.	nc						
Vinyl Bromide	593-60-2	6.18	0.173	0.173	ca						
Warfarin	81-81-2	19.	-	19.	nc						
Xylene, m-	108-38-3	783.	-	388.	Csat						
Xylene, o-	95-47-6	915.	-	434.	Csat						
Xylene, P-	106-42-3	798.	-	390.	Csat						
Zinc Cyanide	557-21-1	3,910.	-	3,910.	nc						
Zinc Phosphide	1314-84-7	23.5	-	23.5	nc						
Zineb	12122-67-7	3,160.	-	3,160.	nc						
Zirconium	7440-67-7	6.26	-	6.26	nc						
Test1Chem(DRO)	Wis. DRO										
Test2Chem(GRO)	Wis. GRO										
Test3Chem(TPH)	TPH										

Type BRRTS No. Here (If Known)

5.9E-05	0	0.2697	5.9E-05
cPAH Risk ≤ 5e-06 (to pass)	Exceedance Count = 0 (to pass)	HI ≤ 1.0 (to pass)	Cumulative CR ≤ 1e-05 (to pass)

Bottom-Line:

7. 03/14/2017

NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.

cPAH Risk Assessment for TW-7 (2.5-5)

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

For 7 cPAHs: Individual exceedance not assessed, but assessed via a separate cumulative-only cancer risk threshold level of 5e-06.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5202* .

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, click "Get Summary" in Row 924 .***

(Contaminants not listed can be added starting at Row 912.)

Find ... Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAHs / Comparison / Hazard Index / Cumulative Cancer Risk: cPAH Risk Threshold: **5.00E-06** — cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: **1.00E-06** — Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca						
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca						
Toluene	108-88-3	5,240.	-	818.	Csat						
Xylenes	1330-20-7	818.	-	260.	Csat						
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca						
Dichloroethane, 1,2-	107-06-2	43.7	0.652	0.652	ca						
Dibromoethane, 1,2-	106-93-4	100.	0.05	0.05	ca						
Trichloroethylene	79-01-6	5.68	1.3	1.3	ca						
Tetrachloroethylene	127-18-4	109.	33.	33.	ca						
Vinyl Chloride	75-01-4	89.2	0.067	0.067	ca						
Dichloroethylene, 1,1-	75-35-4	320.	-	320.	nc						
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	-	1,560.	nc						
Dichloroethylene, 1,2-cis-	156-59-2	156.	-	156.	nc						
Trichloroethane, 1,1,1-	71-55-6	11,500.	-	640.	Csat						
Carbon Tetrachloride	56-23-5	131.	0.916	0.916	ca						
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat						
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat						
Dioxane, 1,4-	123-91-1	1,020.	5.72	5.72	ca						
Naphthalene	91-20-3	178.	5.52	5.52	ca						
Nonane, n-	111-84-2	13.4	-	6.86	Csat						
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.007	5.7E-08	*cPAH*	0.0004	5.7E-08
Acenaphthene	83-32-9	3,590.	-	3,590.	nc						
Acenaphthylene	208-96-8	-	-								
Anthracene	120-12-7	17,900.	-	17,900.	nc						
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.006	5.1E-09	*cPAH*		5.1E-09
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca						
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.007	6.3E-09	*cPAH*		6.3E-09
Benzo[g,h,i]perylene	191-24-2	-	-								
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.01	8.7E-10	*cPAH*		8.7E-10
Chrysene	218-01-9	-	115.	115.	ca		0.009	8.1E-11	*cPAH*		8.1E-11
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.007	5.7E-08	*cPAH*		5.7E-08
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca						
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca						
Fluoranthene	206-44-0	2,390.	-	2,390.	nc						
Fluorene	86-73-7	2,390.	-	2,390.	nc						
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.009	7.7E-09	*cPAH*		7.7E-09
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca						
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc						
Nitropyrene, 4-	57835-92-4	-	0.424	0.424	ca						
Perylene	198-55-0	-	-								

Find ... Contaminant	CAS Number	NC RCL (mg/kg)		C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	cPAH Risk	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Vanadium Pentoxide	1314-62-1	663.		528.	528.	ca						
Vernolate	1929-77-7	78.2	-		78.2	nc						
Vinclozolin	50471-44-8	75.9	-		75.9	nc						
Vinyl Acetate	108-05-4	1,300.	-		1,300.	nc						
Vinyl Bromide	593-60-2	6.18		0.173	0.173	ca						
Warfarin	81-81-2	19.	-		19.	nc						
Xylene, m-	108-38-3	783.	-		388.	Csat						
Xylene, o-	95-47-6	915.	-		434.	Csat						
Xylene, P-	106-42-3	798.	-		390.	Csat						
Zinc Cyanide	557-21-1	3,910.	-		3,910.	nc						
Zinc Phosphide	1314-84-7	23.5	-		23.5	nc						
Zineb	12122-67-7	3,160.	-		3,160.	nc						
Zirconium	7440-67-7	6.26	-		6.26	nc						
Test1Chem(DRO)	Wis. DRO											
Test2Chem(GRO)	Wis. GRO											
Test3Chem(TPH)	TPH											

Type BRRTS No. Here (If Known)

1.3E-07	0	0.0004	1.3E-07
cPAH Risk ≤ 5e-06 (to pass)	Exceedance Count = 0 (to pass)	HI ≤ 1.0 (to pass)	Cumulative CR ≤ 1e-05 (to pass)

Bottom-Line:

7. 03/14/2017 Yes, levels are below direct-contact concern.