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August 19, 2019

Program Assistant
Wisconsin Department of Natural Resources
Remediation & Redevelopment Program
2300 North Dr. Luther Martin King Jr Drive
Milwaukee, Wisconsin 53212

Reference: *Site Investigation Report & Remedial Action Plan*
1681-1683 N Van Buren Property
Milwaukee, Wisconsin
FID No. 341143220
BRRTS No. 02-41-562442

KEY ENGINEERING GROUP, LTD.
File No. 1604-1011-0002

Dear Program Assistant:

On behalf of Endeavour Corp Inc., please find enclosed the *Site Investigation Report and Remedial Action Plan* (SIR and RAP) for the property located at 1681 North Van Buren Street, in Milwaukee, Wisconsin.

Sincerely,

KEY ENGINEERING GROUP, LTD.

Toni L. Schoen
Senior Project Manager

D'Arcy J. Gravelle, PG, CPG
Principal Hydrogeologist

Enclosure: *Site Investigation Report/Remedial Action Plan*

KEY ENGINEERING GROUP LTD. Inc.
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SITE INVESTIGATION REPORT
&
REMEDIAL ACTION PLAN

1681-1683 N Van Buren Property
Milwaukee, Wisconsin
FID No. 341143220
BRRTS No. 02-41-562442

August 19, 2019

PREPARED FOR

Endeavour Corp Inc.
330 East Kilbourn Avenue, Suite 1160
Milwaukee, Wisconsin 53202

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NR 700 SUBMITTAL CERTIFICATIONS

"I, D'Arcy J. Gravelle, 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, Wis. Adm. Code."

D'Arcy J. Gravelle, PG, CPG — 8/19/19 Date

"I, Kurt McClung, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Kurt McClung, PE — 8/19/19 Date

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ACRONYMS

bgs	Below Ground Surface
BRRTS	Bureau of Remediation and Redevelopment Tracking System
cis-1,2-DCE	cis-1,2-Dichloroethene
ES	Enforcement Standard
ERP	Environmental Repair Program
KEY	Key Engineering Group, Ltd.
LUST	Leaking Underground Storage Tank
mg/kg	Milligrams Per Kilogram
PAH	Polycyclic Aromatic Hydrocarbon
PAL	Preventive Action Limit
PCE	Tetrachloroethene
PID	Photoionization Detector
RAP	Remedial Action Plan
RCL	Residual Contaminant Level
TCE	Trichloroethene
µg/l	Micrograms Per Liter
µg/m^3	Micrograms Per Cubic Meter
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compounds
Wis. Admin. Code	Wisconsin Administrative Code
WDNR	Wisconsin Department of Natural Resources

1.0 INTRODUCTION

Key Engineering Group, Ltd (KEY) completed a site investigation and developed a remedial action plan (RAP) for the property located at 1681 North Van Buren Street, in the City Milwaukee, Milwaukee County, Wisconsin (Site) as related to chlorinated volatile organic compounds (VOCs).

On August 11, 2014, the Wisconsin Department of Natural Resources (WDNR) reported a release on behalf of the property owner for chlorinated VOCs detected in soil at the Site based on information provided in a *Supplemental Information & Proposed Work Plan for Additional Site Investigation* for Comedy Club, the contaminated neighboring property located at 615 East Brady Street. This report stated that the Site was previously operated a dry-cleaning business from 1963 to 1966. Soil samples collected between 2005 to 2006 during the investigation of petroleum contamination (leaking underground storage tank (LUST) case BRRTS No. 03-41-548862) identified solvent contamination. "The solvent contamination appears to be from a source originating on your property which is distinct from the chlorinated solvents identified on the Comedy Club site. The leaking underground storage tank case at this site (BRRTS No. 03-41-548862) which was closed on January 31, 2008 did not address the non-petroleum contamination." BRRTS No. 02-41-562442 was assigned as an Environmental Repair Program case to manage the chlorinated VOC impacts.

The LUST case file is not available from the WDNR. The boring and well sample location maps and soil and groundwater tables from the LUST case were saved in KEY's electronic files. This report presents a detailed summary of available site history, a description of investigation activities completed during the investigation of the LUST case (2005 through 2008) and the more recent investigation activities completed between 2014 and 2019, a summary of findings, observations, and analytical results as related to the chlorinated VOCs, and a remedial strategy to address the residual chlorinated VOC impacts.

2.0 BACKGROUND

2.1 Site Location and Contacts

The Site is comprised of one parcel of land located at 1681 North Van Buren Street, in the City of Milwaukee, Milwaukee County, Wisconsin with parcel number is 3600006100. Site is located at 43˚05'27.02'' North latitude, 87˚90'36.69'' West longitude. Wisconsin Traverse Mercator (WTM91) coordinates are x 690725, y 288800. The Site is located in the northwest quarter, southwest quarter of Section 21, Township 7 North, Range 22 East. The Site location is presented on Figure 1 (USGS, 1971). A copy of the deed is included in Appendix 1.

The following contact information is provided for the Site and environmental consultant:

Responsible Party (RP):
Mr. Randy Roth, Agent
Endeavour Corp Inc.
330 East Kilbourn Avenue, Suite 1160
Milwaukee, Wisconsin 53202

Site Owner:
Mr. Randy Roth, Agent
TR Partners LLC
330 East Kilbourn Avenue, Suite 1160
Milwaukee, Wisconsin 53202

Environmental Consultant:
Kenneth W. Wein, CHMM
Key Engineering Group Ltd.
735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202

Driller:
Horizon Construction and Exploration
766 Tower Drive
Fredonia, Wisconsin 53021

Laboratories:
Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9 (soil and groundwater)
Green Bay, Wisconsin 54302
1700 Elm Street, Suite 200 (vapor and air)
Minneapolis, Minnesota 55414

Eurofins TestAmerica
2417 Bond Street
University Park, Illinois 60484

2.1 Site Description

The Site consists of a rectangular shaped parcel of land located in a commercial and residential area on the southwest corner of North Van Buren and East Brady Street. The Site is approximately 0.43 acres in an area zoned as LB-2 Commercial local business. The building is currently operated by two tenants, including Polished Nail Bar and DigiCOPY. Polished Nail Bar is a nail salon and DigiCOPY offers printing and copying services. A copy of the deed is presented in Appendix 1.

The Site is developed with an approximately 5,395 square building located on the east side of the property. The building is slab on grade construction. A site layout map is presented as Figure 2.

The site is accessible from North Van Buren Street and East Brady Street. An asphalt parking lot exists on the east and north sides of the building. A grass area exists at the southeast corner of the Site. The Site is serviced with municipal water and sewer, and natural gas and electricity by WE Energies.

The Site is located in an area of commercial and residential land-use activity. Surrounding land-use is described as follows:

North: East Brady Street and a City of Milwaukee park.

South: Residential properties

East: North Van Buren Street

Residential properties

Libby's Fine Food/Good Spirits – bar and restaurant

Angelo's Piano Lounge – bar

Hybrid - bar

West: Residential properties

Up Down – bar and restaurant

2.2 Site History

KEY reviewed historical aerial photographs, Sanborn maps, and City of Milwaukee records to determine the past land use. The 1910 Sanborn map shows several residential houses, a stable, and two stores were presented onsite. The 1951 Sanborn maps shows the 1910 residences and stores have been razed and replaced with a gasoline station with three gasoline underground storage tanks (USTs), two residences, a store, and two apartment buildings. The same configuration of buildings is presented in the 1937 aerial photograph. A dry cleaner was reported present onsite between 1963 to 1966. The 1967 aerial photograph and 1968 Sanborn maps show a filling station. The filling station is not present on the 1963 aerial photograph. In September 1978, the property was purchased by Giovanni Safina, who operated a restaurant called "Giovanni's." The property was sold to RR 101, LLC in October 2012 and sold to TR Partners LLC in April 2015.

2.3 Site Regulatory History

On March 27, 2007, the WDNR was notified of a petroleum release at 1683 North Van Buren Street. Bureau of Remediation and Redevelopment Tracking System (BRRTS) number 03-41-548862 was assigned to this LUST case. An investigation was completed between 2005 and 2008. The case was closed on January 31, 2008 with continuing obligations including maintenance of a barrier cap due to the presence of residual soil contamination and a NR140 preventive action limit (PAL) exemption for benzo(b)fluoranthene was granted. The building was identified as a structural impediment. The Geographic Information System (GIS) Registry with continuing obligations is included in Appendix 2.

On August 11, 2014, the WDNR reported a release on behalf of the property owner for chlorinated VOCs detected in soil at the Site based on information provided in a *Supplemental Information & Proposed Work Plan for Additional Site Investigation* for Comedy Club, the contaminated neighboring property located at 615 East Brady Street. This report stated that the Site was previously operated a dry-cleaning business from 1963-66. Soil samples collected between 2005 to 2006 during the investigation of petroleum contamination (BRRTS No. 03-41-548862) also identified solvent contamination. "The solvent contamination appears to be from a source originating on your property which is distinct from the chlorinated solvents identified on the Comedy Club site. The leaking underground storage tank case at this site (BRRTS#03-41-548862) which was closed on January 31, 2008 did not address the non-petroleum contamination." BRRTS No. 02-41-562442 was assigned as an Environmental Repair Program case to manage the chlorinated VOC impacts.

3.0 SITE INVESTIGATION ACTIVITIES

Investigation activities were completed between November 2005 through July 2019 to complete the investigation phase. The objective of the investigation activities was to determine the extent and degree of soil, groundwater, and vapor impacts. Sample locations are presented on Figure 2. Investigation activities included the following:

- Advanced 43 soil borings (GP-1, GP-2, GP-6A/6B, GP-10, GP-11 through GP14, GP-28 through GP-30, SP-1 through SP-14, SP-15 through SP-28, KB-12A, KB-31, and KB-32).
- Collected and analyzed 72 VOC soil samples.
- Collected and analyzed three groundwater samples for VOCs from TW-1 and MW-1.
- Collected and analyzed seven sub-slab vapor points (VS-1 through VS-3 and VP-1 through VP-4) and two indoor air samples (AS-1 and IA-1) for VOCs.

Below is a summary of the investigation activity procedures.

3.1 Soil Boring Drilling and Soil Sample Collection

Forty-three (43) direct-push soil borings (GP-1, GP-2, GP-6A/6B, GP-10, GP-11 through GP14, GP-28 through GP-30, SP-1 through SP-14, SP-15 through SP-28, KB-12A, KB-31, and KB-32) were advanced using a Geoprobe Large Bore Soil Sampler. Soil samples were collected by driving a steel sampling rod (sampler) with acetate liners to the desired sampling depth using the hydraulic ram and hammer on the Geoprobe rig. Once the sampler reaches the desired depth, the sampler was opened by removing a stop pin in the sampler. The sampler was driven an additional 4 to 5 feet to push a soil sample into the sampler, preserving the sample in a 1-inch by 4 or 5-foot acetate liner inside the sampler. The acetate sleeves will allow continuous collection of soil samples from each boring.

Soil samples were field screened for the presence of total ionizable VOC vapors using a calibrated photoionization detector (PID). The screening samples were warmed and the headspace PID reading of the soil was taken by inserting the probe end of the PID into the plastic bag through the seal.

After field screening, selected retained soil samples were submitted to a WDNR certified laboratory for analysis. Soil samples were selected based on soil screening data, presence of fill material or native soil, olfactory evidence, staining, or a depth above the soil/water interface. Soil samples for laboratory analysis were placed in laboratory supplied containers and transported to the laboratory under chain of custody protocol. Soil samples were analyzed for VOCs using Method 8260B.

A KEY scientist monitored the drilling activities and visually screened and described the texture and engineering properties of the soil. Soil descriptions and field screening PID results were recorded on soil boring logs. Soil Boring Logs (WDNR Form 4400-122) and Borehole Filling and Sealing Forms (WDNR Form 3300-005) not previously submitted are included in Appendix 3.

3.2 Groundwater Elevations and Sampling

Static groundwater measurements were collected from the monitoring well MW-1 on June 22, 2006 and November 1, 2006. The monitoring well was opened and allowed to equilibrate prior to measuring depth to groundwater. Measurements were collected from the north side of the casing using an electronic water

level capable of measuring to an accuracy of plus or minus 0.01 feet. Groundwater elevations are summarized in Table 1. The water level meter was decontaminated between well locations using non-phosphate laboratory grade detergent water and rinsed with distilled water.

Groundwater samples were collected from the monitoring well MW-1 on June 22, 2006 and November 1, 2006 and TW-1 on May 10, 2006 after collecting static groundwater depths. Groundwater samples were collected and submitted from each monitoring well for laboratory analysis of VOCs using Method 8260 Groundwater samples were collected from monitoring wells using dedicated disposable bailers. Three well volumes were purged from each well and allowed to fully recharge prior to sampling. The groundwater samples were transferred to laboratory supplied containers, stored on ice and submitted to a WDNR certified laboratory for analysis. Purge water was containerized in steel 55-gallon drums.

3.3 In-Situ Hydraulic Conductivity Testing

Hydraulic conductivity testing was not conducted at the site. However, based on geology and low yield from monitoring well MW-1, the hydraulic conductivity for the Site is estimated between 10^{-4} to 10^{-5} centimeters per second.

3.4 Sub-Slab Vapor and Indoor Air Sampling

Three sub-slab vapor samples (VS-1 through VS-3) and indoor air sample AS-1 were collected in the heating season between October 20, 2014 and November 17, 2015 from under the building floor in the nail salon, which is located near the chlorinated VOC impacts. The sample locations are presented on Figure 2.

Below is a summary of the sampling procedures:

At the sampling location, a 5/8-inch-diameter hole was drilled through the slab foundation using a hammer drill to reach the sub-slab soil. Concrete dust was removed from the hole. The sub-slab probe was inserted into the hole and sealed with a bentonite putty mixture. The probe is a brass fitting, tapered on one end to fit the 5/8-inch diameter probe hole. It is outfitted with a male 3/16-inch hose adaptor on each end.

The sampling components were connected to the sub-slab probe, and a helium shroud was used to cover the sub-slab probe. A “shut-in test” was used to check for leaks in the fittings between the probe and sampling canister. A vacuum gauge was connected to the sampling line between the sub-slab probe and the Summa canister. Valves to the probe and canister were closed and air was removed from the line using a hand pump to induce a vacuum in the line. With all external valves to the sampling line closed, the vacuum gauge remained steady for one minute.

To test the probe seal, helium was released into the shroud and a sub-slab sample was withdrawn to detect the presence/absence of helium with a hand-held meter. Initially, the meter detected helium. The probe was re-sealed and re-tested until no helium was detected. After the “shut-in test” and helium shroud were used to test for leaks, a minimum of three volumes of air were purged from the sampling line. The valve on the Summa canister was then opened to collect the sub-slab vapor sample. The 6-liter canister was allowed to draw vapor for 30 minutes. The vacuum gauge read 30 inches of mercury before the sample collection and 8 inches of mercury after 30 minutes. After collecting the vapor sample, the probe was removed, and the probe hole was abandoned by filling the hole with bentonite to a level that was flush with the floor.

On April 28, 2018, four sub-slab vapor samples (VP-1 through VP-4) and one indoor air sample (IA-1) in the cooling season from under the building floor in the nail salon, which is located near the residual chlorinated VOC soil impacts. The sample locations are presented on Figure 2. Below is a summary of the sampling procedures.

Sub-slab vapor sampling points VP-1 through VP-4 were installed using a Cox-Calvin Vapor Pins®. The vapor pins were installed using a hammer drill. A 1.5-inch hole was drilled through the concrete floor to approximately 1.5 inches deep. A smaller 5/8-inch hole was drilled through the larger hole (1.5-inch diameter) and through the concrete floor into the underlying gravel. A bottle brush and Shop Vac were used to remove the concrete dust from inside the hole. The vapor pin, which consists of a stainless-steel hose barb inserted into a silicon tube, were driven/hammered into the hole. The silicon tube created a seal between the hose barb and concrete. Tubing was connected from the summa to the top of the hose barb to collect vapor from beneath the concrete floor. A water dam was used to verify the seal was adequate and no leaks were occurring prior to collecting each sample.

3.5 Quality Assurance/Quality Control

The down-hole drilling equipment was decontaminated prior to mobilization and between boring locations. Decontamination consisted of cleaning the rods and augers with pressurized hot water. Hand equipment was decontaminated between each use. Decontamination consisted of a tap water and detergent, Alconox® wash, tap water rinse, and a distilled water rinse.

Groundwater monitoring well development, sampling and testing equipment were decontaminated with an Alconox® detergent/distilled water wash and two distilled water rinses.

KEY followed chain of custody protocols from sample collection to laboratory analysis. Each sample was identified and labeled with a field sample identification number consisting of a sample location identifier and date collected.

3.6 Management of Investigation Derived Wastes

Soil cuttings and wastewaters from decontamination and purge water were collected and placed in 55-gallon Wisconsin Department of Transportation approved steel drums. The drums were transported offsite for disposal or treatment. Copies of manifests were previously submitted to the WDNR.

4.0 SITE CHARACTERIZATION

In accordance with NR 716.07 Wis. Admin. Code and the standard risk assessment process of evaluating sources, pathways, and receptors, KEY completed a desktop survey of potential receptors. The following sections present a summary of the potential receptors identified at or near the Site.

4.1 Occupants and Workers

The following exposure pathways were identified.

- For soil, the potential exposure pathways include ingestion (commercial/industrial worker and construction worker), dermal contact (commercial/industrial worker and construction worker), inhalation (commercial/industrial worker and construction worker), and migration to groundwater.
- For groundwater, the potential exposure pathway is ingestion (commercial/industrial worker and construction worker).
- For vapor, the potential exposure pathway is inhalation (commercial/industrial worker and construction worker).

4.2 Sensitive Habitats

KEY conducted site visits and reviewed documents such as topographic maps and WDNR water resources maps to evaluate whether the following sensitive receptors are on the site or at nearby properties located within 1,200 feet of the Sites:

- Wetlands
- Species, habitat or ecosystems sensitive to the contamination
- Outstanding water resources and exceptional water resources
- Sites or facilities of historical or archeological significance

No sensitive wetlands or outstanding resource waters were identified on or adjacent to the Site. Confirmation of a wetland was reported by OTIE in a Wetland Delineation Report located at 1701 North Water Street, in Milwaukee. A letter from the WDNR recognizing the wetland confirmation was received. The wetland was identified approximately 370 feet from the Site along the Milwaukee River. The surface water data viewer and confirmation letter from the WDNR are included in Appendix 4

4.3 Utilities

The Site water, gas, and sewer lines are located near the south side of the property where there are no known soil impacts. The communication and power lines are overhead except for an underground electric line that provides power to the sign in the northeast corner of the property. This electric line is likely located within the upper three feet from ground surface and not surrounded by permeable backfill. There is an underground electric line along the curb for the streetlights that is likely installed within the upper three feet in clay. There is also a communication line corridor located under East Brady Street between approximately 7.75 and 10 feet north of the curb and located between 3 and 4 feet bgs. According to the City of Milwaukee, the communication lines are “fiber and/or clay tile ducts encased in protective concrete.” The utility locations are presented in Figure 2.

There are low levels of chlorinated VOCs along the north property line in the upper four feet of soil and under the sidewalk along East Brady Street. The estimated extent of soil impacts is presented on Figures 6 through 8. Due to the dense clay soils at the Site, no free product is present, groundwater is located at approximately 40 feet bgs, and the shallow utilities are not surrounded by a permeable material or are cased in concrete, the right of way utilities are likely not a conduit for migration of impacts.

4.4 Water Wells

A search for the location of potential water supply wells located within 1,200 feet of the Site was completed using the Wisconsin Department of Agriculture, Trading, and Consumer Protection (DATCP) Well Constructor's Report database (DATCP, 2015). Two private water supply wells were identified approximately 550 feet northeast and 450 feet northwest of the Site. The approximate water supply well locations are presented in Figure 1. Since the are no groundwater impacts onsite, the water supply wells are not considered at risk. Well Constructor Reports are included in Appendix 4.

4.5 Surface Water and Site Topography

The nearest surface water body is the Milwaukee River, which is located approximately 400 feet northwest the Site and is located at an elevation of approximately 580 feet amsl. The topography of the site is relatively flat, with an elevation ranging from approximately 628 feet above mean sea level. The topography slopes to the northwest towards the Milwaukee River. The location of the Site and the Milwaukee River are presented on Figure 1.

4.6 Site Geology

The site geology was obtained through the advancement of investigation borings. A thin layer of sand and gravel (subbase) is present under the asphalt and concrete, underlying by native stiff clay with trace sand and gravel to a maximum depth of 45 feet bgs. Intermittent sand and gravel lenses were observed in two borings. Bedrock was not encountered during drilling, however based on water supply well constructor's reports, limestone bedrock may be encountered as shallow as 58 feet bgs (DATCP, 2019). The location of and geologic cross section A-A' is presented on Figures 4 and 5, respectively.

4.7 Site Hydrogeology

In June 2006, boring GP-9R was advanced to a depth of 45 feet bgs as part of the LUST investigation. Monitoring well (MW-1) was installed in this borehole. Depth to groundwater was measured on June 22, and November 11, 2006 at 39.69 feet and 39.65 feet below top of casing. A summary of groundwater measurements is presented in Table 1. This well was abandoned as part of the LUST investigation. Based on the area topography, the groundwater flow direction is expected to be to the northwest towards the Milwaukee River.

5.0 SITE INVESTIGATION RESULTS

Below is a summary of the soil, groundwater, and vapor analytical results from the investigation completed between 2005 and 2019.

5.1 Soil Regulatory Criteria

The WDNR Remediation & Redevelopment Program has prepared a spreadsheet (updated in December 2018) with direct contact residual contaminant levels (RCLs) for non-industrial land use and protection of groundwater pathway RCLs for each analyte. The Site is currently zoned LB2 – commercial local business.

5.2 Soil Analytical Results

The soil investigation included the advancement of 43 soil borings (GP-1, GP-2, GP-6A/6B, GP-10, GP-11 through GP14, GP-28 through GP-30, SP-1 through SP-14, SP-15 through SP-28, KB-12A, KB-31, and KB-32) and installation of one monitoring well (MW-1) and one temporary well (TW-1). The borings and wells were advanced to depths ranging from 4 to 45 feet bgs. A total of 72 soil samples were collected and submitted for laboratory analysis including VOCs. Soil analytical results from onsite and offsite at the former Comedy Club property to the west of the site are summarized in Tables 2 and 3, respectively. The soil boring locations are presented on Figure 2. The soil laboratory analytical reports not previously submitted are included in Appendix 5.

A total of 53 soil samples were collected and submitted for laboratory analysis of VOCs. The petroleum VOCs were addressed in the LUST case (BRRTS No. 03-41-548862), which was closed by the WDNR on January 31, 2008. Below is a summary of the chlorinated VOC soil analytical exceedances.

Non-Industrial Direct Contact RCL Exceedances

Chlorinated VOCs were detected below their respective non-industrial direct contact RCLs.

Protection of Groundwater RCL Exceedances

Chlorinated VOCs were detected above their respective protection of groundwater RCLs between 0 and 4 feet bgs for PCE (compared to 0.0045 milligrams per kilogram [mg/kg]), TCE (compared to 0.0036 mg/kg), and cis-1,2-DCE (compared to 0.0412 mg/kg) at the following locations and concentrations.

- SP-2 for PCE (9.4 mg/kg), TCE (0.40 mg/kg), and cis-1,2-DCE (0.043J mg/kg)
- SP-4 for PCE (0.66 mg/kg), TCE (0.308 mg/kg), and cis-1,2-DCE (0.087 mg/kg)
- GP-9 for TCE (0.11 mg/kg) and cis-1,2-DCE (0.46 mg/kg)
- GP-12 for PCE (0.258 mg/kg) and TCE (0.0478J mg/kg)
- GP-13 for PCE (0.584 mg/kg) and TCE (0.0342 mg/kg)
- GP-28 for PCE (0.205)
- GP-29 for PCE (0.377 mg/kg) and TCE (0.0439J mg/kg)
- KB-31 for PCE (0.067 mg/kg)
- SP-15 for PCE (6.4 mg/kg) and TCE (0.28 mg/kg)
- SP-16 for PCE (3.5 mg/kg)
- SP-27 for PCE (0.64 mg/kg)

Chlorinated VOCs were detected above their respective protection of groundwater RCLs greater than 4 feet bgs at the following locations and concentrations.

- SP-1 from 8 to 10 feet for PCE (2.96 mg/kg), TCE (1.09 mg/kg), and cis-1,2-DCE (0.283 mg/kg)
- SP-2 from 8 to 10 feet for PCE (0.097 mg/kg)
- SP-4 from 8 to 10 feet for TCE (0.087 mg/kg) and cis-1,2-DCE (0.058J mg/kg)
- SP-5 from 8 to 10 feet for PCE (2.96 mg/kg), TCE (1.09 mg/kg), and cis-1,2-DCE (0.283 mg/kg)
- GP-9 from 8 to 10 feet for TCE (0.49 mg/kg) and cis-1,2-DCE (0.3 mg/kg)
- GP-12 from 7 to 9 feet for PCE (7.83 mg/kg), TCE (0.479 mg/kg) and cis-1,2-DCE (0.417 mg/kg)
- GP-13 from 7.5 to 10 feet for PCE (2.35 mg/kg) and TCE (0.229 mg/kg)
- SP-15 from 8 to 10 feet for PCE (1.3 mg/kg) and from 16 to 18 feet for PCE (2.5 mg/kg) and TCE (0.083 mg/kg)

Source and Delineation

The source of chlorinated VOCs is likely attributed to the former dry cleaner that was located onsite. There was also a former dry cleaner on the property to the west. A release of chlorinated VOCs occurred on both properties.

PCE isoconcentration maps for 0 to 4 feet, 5 to 10 feet, and 11 to 32 feet are presented as Figures 6 through 8, respectively. Soil concentrations are posted on each figure for all available PCE concentrations located onsite and on the property to the west. The isoconcentration contours presented on the figures represent the location of the impacts present onsite and commingling in the shared public alley located between the properties.

Below is a summary of key findings and observations from the PCE isoconcentration map for 0 to 4 feet bgs.

- The highest onsite PCE concentrations are present from 2 to 4 feet bgs at the north property line at SP-2 at 9.4 mg/kg. There appears to migration north of this location under the sidewalk at SP-15 at 6.4 mg/kg and SP16 at 3.5 mg/kg. There are lower PCE concentrations in the public alley and along the western side of the site building ranging from 0.067 mg/kg to 0.377 mg/kg.
- Based on the soil samples collected near the perimeter of the building, there are likely low concentrations of PCE located under the building. Vapor sampling was completed under the building to evaluate the risk of vapor intrusion.
- A significant source of PCE was identified near the former dry-cleaning machines offsite at boring GP-45 at 77.7 mg/kg from 3 to 4 feet bgs.

Below is a summary of key findings and observations from the PCE isoconcentration map for 5 to 10 feet bgs.

- The areal extent of the PCE impacts along the north property line are slightly larger with impacts present at SP-1 from 8 to 10 feet at 2.96 mg/kg. However, the areal extent of the impacts under the sidewalk at SP-15 have reduced from 9.4 mg/kg from 2 to 4 feet to 1.3 mg/kg from 8 to 10 feet.
- The vertical extent of PCE in the public alley along the western side of the building and near the northeast corner of the building has been delineated by PCE reported below laboratory detection limits each boring sampled between 7 and 10 feet bgs.

Below is a summary of key findings and observations from the PCE isoconcentration map for 11 to 32 feet bgs.

- Most soil samples were collected from 11 to 18 feet bgs. One soil sample was collected from monitoring well MW-1 from 30 to 32 feet bgs.
- The vertical extent of PCE has been delineated onsite by PCE concentrations reported below laboratory detection limits in borings SP-20 and SP-21 along the north property line from samples from 16 to 18 feet bgs.
- The vertical extent of PCE is not delineated under the sidewalk at boring SP-15. The deepest soil sample from this boring was 16 to 18 feet with PCE detected at 2.5 mg/kg. Although the impacts at this boring have not been horizontally or vertically delineated, the impacts are below the non-industrial RCL, are present under the right of way, not expected to impact groundwater which is presented at approximately 40 feet bgs (based on the depth to water at MW-1), and likely do not intersect the communication lines in the right of way. Further delineation to the north would require drilling in the right of way of Brady Street within a traffic lane, where the City of Milwaukee will not easily permit access.

Overall, the soil investigation for chlorinated VOCs is considered complete. Groundwater samples were collected to evaluate the potential for groundwater impacts at MW-1.

The remedial strategy for soil at the Site will be a barrier cap consisting of the building and north parking lot to limit infiltration of precipitation to groundwater. The soil exceedances will also be listed on the WDNR's Geographic Information System (GIS) Registry at the time of case closure and the City of Milwaukee will be notified of the soil impacts in the right of way of Brady Street and alley west of the Site.

5.3 Soil Excavation as Part of LUST Case

Two soil excavations were completed in 2006. Details of these excavations were included in the LUST case. This file is no longer available through KEY or the WDNR. Based on the map included in Appendix 2, one excavation was completed at November 20, 2006 north of the building. This excavation measured approximately 16 feet by 19 feet by 5 feet. Approximately 87 tons of soil was excavated and disposed of at a landfill. A second excavation was completed north and northeast of the building between December 11 and 12, 2006. This excavation was approximately 45 feet by 45 feet and 0.5 feet. This excavation was for preparation of placing new asphalt in the area. Approximately 87 tons of soil was excavated and disposed of at a landfill.

5.4 Groundwater Analytical Results

The groundwater investigation included the installation and sampling of two wells (TW-1 and MW-1) as part of the LUST case. Groundwater samples were collected and submitted for laboratory analysis of VOCs each well. Groundwater VOC analytical results are presented in Table 3. The well locations are presented on Figure 2. The groundwater laboratory reports were previously submitted to the WDNR with the LUST case.

Groundwater analytical results were compared to the NR 140 Wis. Admin. Code ESs and PALs.

- VOCs were reported below laboratory detection limits in TW-1 in May 2006.

- VOCs were detected in June 2006 for benzene at 0.20 J micrograms per liter (µg/L) and VOCs were reported below laboratory detection limits in November 2006 in MW-1. The benzene concentration was "J" flagged as "estimated" by the laboratory.

Based on the above groundwater analytical results, there are no chlorinated VOCs detected in the groundwater.

5.5 Sub-Slab Vapor and Indoor Air Analytical Results

Sub-slab vapor samples were collected from the Site to evaluate the risk of vapor intrusion. Indoor air samples were also collected to confirm indoor air quality and determine if there was a potential source of chlorinated VOCs.

Sub-slab vapor analytical results were compared to the small commercial vapor risk screening levels (VRSLs) and indoor air analytical results were compared to the small commercial vapor action levels (VALs). The building is slab on grade and less than 25,000 square feet. Sample locations are presented on Figure 2. Sub-slab vapor and indoor air analytical results are summarized in Table 5. Vapor laboratory reports not previously submitted are presented in Appendix 6.

5.6 Sub-Slab Vapor and Indoor Air Samples

On October 20, 2014, one sub-slab vapor sample (VS-1) was collected from the northeast corner of the building where chlorinated VOCs were detected in soil. An indoor air sample (AS-1) was collected from inside the nail salon and submitted for VOCs.

On November 17, 2015, two sub-slab vapor samples (VS-2 and VS-3) were also collected from under the northeast corner of the building. The vapor sample was submitted for laboratory analysis of select VOCs including PCE, TCE, cis-1,2-DCE and trans-1,2-DCE.

On April 28, 2018, four sub-slab vapor samples (VP-1 through VP-4) were collected from under the northeast corner of the building where chlorinated VOCs were detected in soil. An indoor air sample (IA-1) was also collected from inside the nail salon and submitted for VOCs.

- VOCs were detected below the small commercial VRSL in sub-slab vapor samples VS-1 through VS-3 and VP-1 through VP-4 collected during heating and cooling seasons.

- Ethyl acetate was detected above the small commercial VAL of 310 micrograms per cubic meter (µg/m^3) in AS-1 at 1,980 µg/m^3 and IA-1 at 2,880 µg/m^3, respectively. Ethyl acetate is analyte found in nail polish remover. This portion of the building is operated by Polished Nail Bar, a nail salon. Therefore, since this analyte is expected to be found in the indoor air at a nail salon and not associated with the off gassing from the residual soil impacts at the Site, no vapor mitigation efforts are not warranted to address this exceedance.

6.0 SITE INVESTIGATION FINDINGS AND CONCLUSIONS

Below is a summary of the key findings and conclusions from the site investigation.

- Site investigation activities included the advancement of 43 soil borings (GP-1, GP-2, GP-6A/6B, GP-10, GP-11 through GP14, GP-28 through GP-30, SP-1 through SP-14, SP-15 through SP-28, KB-12A, KB-31, and KB-32), installation, development, and groundwater sampling of one monitoring well (MW-1) and one temporary well (TW-1), and completion of a vapor intrusion assessment.

- The Site soils consist of a thin layer of sand and gravel (subbase) under the asphalt and concrete, underlying by stiff clay with trace sand and gravel grading from brown to gray to a maximum depth of 45 feet bgs. Two intermittent sand and gravel lenses were observed in two borings.

- Groundwater measured in wells at approximately 40 feet bgs.

- No sensitive wetlands or outstanding resource waters were identified on or adjacent to the Site.

- The site utilities are located outside the footprint of residual soil impacts and the utilities located under Brady Street are shallow and are likely not installed in a permeable material that would serve as pathway for migration.

- The source of chlorinated VOCs is likely attributed to the former dry cleaner that was located onsite. There was also a former dry cleaner on the property to the west. A release of chlorinated VOCs occurred on both properties.

- Soil samples were collected and submitted for laboratory analysis of VOCs. The Site is currently zoned commercial.
  - Chlorinated VOCs were detected below their respective non-industrial and industrial direct contact RCLs.
  - There are PCE, TCE, and cis-1,2-DCE soil concentrations above their respective protection of groundwater RCLs.
  - The highest onsite PCE concentrations are present from 2 to 4 feet bgs along the north property line at SP-2 and in the sidewalk at SP-15 and SP-16. PCE concentrations in the upper 4 feet ranges from 0.051 mg/kg to 9.4 mg/kg. There are lower PCE concentrations in the public alley and along the western side of the site building ranging from 0.067 mg/kg to 0.377 mg/kg.
  - PCE has been vertically delineated onsite between 2 and 16 feet bgs.
  - Residual soil impacts are still present from 16 to 18 feet at one offsite boring (SP-15) in the sidewalk. This soil impact is below the non-industrial RCL, not expected to impact groundwater which is presented at approximately 40 feet bgs (based on the depth to water at MW-1), and likely does not intersect the communication lines in the right of way. Further delineation to the north would require drilling in the right of way of Brady Street within a traffic line, which the City of Milwaukee is not amendable to allowing. Therefore, further soil sampling is not proposed.

- Groundwater samples were collected and submitted for laboratory analysis of VOCs.
    - VOCs were not detected above laboratory detection limits or their respective preventive action limits in TW-1 or MW-1.

- A vapor intrusion assessment was completed at the site.
    - Seven sub-slab vapor samples were collected in heating and cooling seasons between October 2014 and April 2019 for VOC analysis. VOCs were detected below small commercial VRSLs in each vapor sample.
    - Two indoor air samples (AS-1 and IA-1) were collected between November 2014 and April 2018 for VOC analysis. Ethyl acetate, a common analyte in nail polish, was detected above its VAL in the nail salon. This analyte is not associated with the chlorinated VOCs detected in the soil at the Site.
    - No vapor mitigation efforts are warranted for the Site.

- The investigation for soil, groundwater, and vapor is considered complete.

7.0 REMEDIAL ACTION PLAN

Environmental investigation activities were conducted between 2005 and 2019. Investigation activities have been focused on chlorinated VOCs related to the former presence of a dry cleaner onsite. Based on the analytical results, the extent and degree of soil have been delineated onsite, there are no groundwater PAL or ES exceedances, and the risk of vapor intrusion has been evaluated. This RAP was prepared to provide a remedial strategy to address the residual soil impacts present on and offsite.

7.1 Soil Remedy

The non-industrial direct contact and protection of groundwater RCLs were compared to the soil VOC analytical results. Chlorinated VOCs were detected below their respective non-industrial and industrial direct contact RCLs. There are PCE, TCE, and cis-1,2-DCE soil concentrations above their respective protection of groundwater RCLs. The highest onsite PCE concentrations are present from 2 to 4 feet bgs along the north property line at SP-2 and in the sidewalk at SP-15 and SP-16. PCE concentrations in the upper 4 feet ranges from 0.051 mg/kg to 9.4 mg/kg. There are lower PCE concentrations in the public alley and along the western side of the site building ranging from 0.067 mg/kg to 0.377 mg/kg. PCE has been vertically delineated onsite between 2 and 16 feet bgs.

The soil remedy for the Site will include a barrier cap. The barrier cap will include a portion of the building and a portion of the asphalt parking lot. The location of the proposed barrier cap is presented on Figure 11. The purpose of the barrier cap will be to limit the potential for infiltration of precipitation. The Site will also be placed on the WDNR GIS Registry for residual soil impacts and a notification of continuing obligations for residual soil contamination will be submitted to the City of Milwaukee for soil impacts in the right of way of East Brady Street and in the alley west of the site.

7.2 Groundwater Remedy

Groundwater was encountered at approximately 40 feet bgs. Two groundwater samples were collected from MW-1 and one groundwater sample was collected from TW-1 and laboratory analyzed for VOCs. VOCs were not detected above laboratory detection limits or their respective PALs in the wells. Since there are no groundwater impacts, a groundwater remedy is not proposed.

7.3 Vapor Remedy

Seven sub-slab vapors were collected beneath the north portion of the building where residual soil impacts are present and laboratory analyzed for VOCs. The sub-slab vapor samples were collected in heating and cooling seasons. VOCs were detected below their respective VRSLs in each sample.

Two indoor air samples were collected from the nail salon in a heating and a cooling season. Ethyl acetate, a common analyte in nail polish remover, was detected above its VAL. Since ethyl acetate is associated with nail salon products and not a constituent of concern, no vapor mitigation efforts are not warranted to address this exceedance. The Occupational Safety and Health Administration permissible exposure limit (PEL) for ethyl acetate is 1,400,000 $\mu g/m^3$. The ethyl acetate concentrations are below the PEL.

8.0 GENERAL QUALIFICATIONS

Our study was performed using the degree of care and skill ordinarily exercised under similar circumstances, by environmental consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusions and recommendations included in this report.

The findings of this report, to the best of knowledge, are valid as of the date of this study. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

Specified information contained in this report has been obtained from publicly available sources and other secondary sources of information produced by entities other than Key Engineering Group, Ltd. Although care has been taken by Key Engineering Group, Ltd., in compiling this information, Key Engineering Group, Ltd., disclaims any and all liability for any errors, omissions or inaccuracies of the third parties in such in disclaims formation and data.

This report was prepared for Endeavour Corp. The report is the property of Endeavour Corp. and Key Engineering Group, Ltd. and cannot be used without written consent from both parties.

9.0 REFERENCES

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Tables

Table 1. Groundwater Elevations

1681 North Van Buren Street, Milwaukee, Wisconsin

WELL IDENTIFICATION (DATE MEASURED)	TOP OF WELL CASING ELEVATION (FEET MSL)	DEPTH TO GROUNDWATER (FEET BTOC)	GROUNDWATER ELEVATION (FEET)
MW-1			
6/22/2006	100.00	39.69	60.31
11/01/2006		39.65	60.35

Notes:
BTOC - below top of casing
MSL - mean sea level

Table 2. Soil Analytical Results

1681-1683 North Van Buren Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	SP-1		SP-2		SP-3		SP-4		SP-5		SP-6		SP-7		SP-9		GP-1
Sample Depth (feet bgs)				2'-4'	8'-10'	2'-4'	8'-10'	2'-4'	10'-12'	2'-4'	8'-10'	2'-4'*	8'-10'	2'-4'*	8'-10'	2'-4'	10'-12'	2'-4'	10'-12'	10'-11'
Sample Date				11/2/06		11/2/06		11/2/06		11/2/06		11/2/06		11/2/06		11/2/06		11/2/06		11/7/05
Detected VOCs (mg/kg)																				
Benzene	1.6	7.07	0.0051	**0.55**	**0.107**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	**0.221**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chloroform	0.454	1.98	0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	156	2,340	0.0412	<0.025	**0.283**	**0.043 J**	<0.025	<0.025	<0.025	**0.087**	**0.058 J**	<0.125	<0.025	0.035 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,1-Dichloroethane	5.06	22.2	0.4834	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	8.02	35.4	1.57	1.27	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	**5.9**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropylbenzene	---	---	---	0.050 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	0.73	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Naphthalene	5.52	24.1	0.6582	0.60	<0.025	0.047 J	<0.025	<0.025	0.063	<0.025	<0.025	<0.125	0.58	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
n-Butylbenzene	108	108	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	264	264	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	1.63	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
p-Isopropyltoluene	162	162	---	0.196	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	183	183	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	0.0256 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
tert-Butylbenzene	145	145	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrachloroethene	33	145	0.0045	<0.025	**2.96**	**9.4**	**0.097**	<0.025	<0.025	**0.66**	<0.025	16.9	<0.025	4.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Toluene	818	818	1.1072	0.0268 J	<0.025	<0.025	0.088	<0.025	<0.025	<0.025	<0.025	<0.125	0.168	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	640	640	0.1402	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	1.3	8.41	0.0036	<0.025	**1.09**	**0.40**	<0.025	<0.025	<0.025	**0.308**	**0.087**	<0.125	<0.025	0.11	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4 -Trimethylbenzene	219	219	---	0.156	<0.025	<0.0259	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,3,5 -Trimethylbenzene	182	182	---	0.0255 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Total Trimethylbenzenes	---	---	0.689	0.1815	<0.050	0.0259	<0.050	<0.050	<0.050	<0.050	<0.050	<0.250	**3.68**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	260	260	3.96	***548 J***	<0.075	<0.075	0.057 J	<0.075	<0.075	<0.075	<0.075	<0.125	2.59	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075

BOLD concentrations exceeded the protection of groundwater residual contaminant level.

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level.

Underlined concentrations exceed the industrial direct contact residual contaminant level.

* Sample not evaluated since a soil sample was collected from an adjacent boring from the same depth at a later date that is more representative.

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

VOCs - volatile organic compounds

Table 2. Soil Analytical Results

1681-1683 North Van Buren Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	GP-2		GP-6B	GP-7*	GP-8	GP-9		GP-9R	GP-10		GP-11		GP-12		GP-13		GP-14	
Sample Depth (feet bgs)				3'-4'	9'-10'	3'-4'	3'-4'	3'-4'	2'-4'	8'-10'	30'-32'	2'-4'	8'-10'	2'-4'	14'-16'	1'-2.5'	7'-9'	1'-2.5'	7.5'-10'	1'-2.5'	7.5'-10'
Sample Date				11/7/05		11/7/05	11/7/05	5/10/06	5/10/06		6/15/06	5/10/06		5/10/06		3/30/09		3/30/09		3/30/09	
Detected VOCs (mg/kg)																					
Benzene	1.6	7.07	0.0051	**0.039**	<0.025	<0.025	<0.025	<0.028	<0.028	**0.18**	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chloroform	0.454	1.98	0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	156	2,340	0.0412	<0.025	<0.025	<0.025	<0.025	<0.028	**0.46**	**0.3**	<0.025	<0.029	<0.029	<0.030	<0.029	0.0341 J	**0.417**	<0.025	<0.025	<0.025	<0.025
1,1-Dichloroethane	5.06	22.2	0.4834	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.025	0.0415 J	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	8.02	35.4	1.57	**2.55**	<0.025	<0.025	<0.025	<0.028	<0.028	0.31	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropylbenzene	---	---	---	0.284	<0.025	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Naphthalene	5.52	24.1	0.6582	**1.1**	<0.025	<0.025	<0.025	<0.028	<0.056	<0.054	<0.025	<0.058	0.23	<0.059	<0.059	<0.025	<0.025	<0.040	<0.040	<0.025	<0.025
n-Butylbenzene	108	108	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0404	<0.0404	<0.0404	<0.025	<0.0404	<0.0404
n-Propylbenzene	264	264	---	1.09	<0.025	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
p-Isopropyltoluene	162	162	---	0.057	<0.025	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	183	183	---	0.117	<0.025	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
tert-Butylbenzene	145	145	---	0.43	<0.025	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	NA	NA	NA	NA	NA	NA
Tetrachloroethene	33	145	0.0045	<0.025	<0.025	<0.025	0.051 J	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	**0.258**	**7.83**	**0.584**	**2.35**	<0.025	<0.025
Toluene	818	818	1.1072	0.17	<0.025	<0.025	<0.025	<0.028	<0.028	0.14	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.025	<0.025	<0.025	<0.025	<0.028	**0.47**	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	640	640	0.1402	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.025	0.0381	<0.025	<0.025	<0.025	<0.025
Trichloroethene	1.3	8.41	0.0036	<0.025	<0.025	<0.025	<0.025	<0.028	**0.11**	**0.49**	<0.025	<0.029	<0.029	<0.030	<0.029	**0.0478 J**	**0.479**	**0.0342**	**0.229**	<0.025	<0.025
1,2,4 -Trimethylbenzene	219	219	---	5.2	0.029 J	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,3,5 -Trimethylbenzene	182	182	---	1.12	<0.025	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Total Trimethylbenzenes	---	---	0.689	**6.32**	<0.054	<0.050	<0.050	<0.056	<0.056	<0.054	<0.050	<0.058	<0.058	<0.060	<0.058	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	260	260	3.96	**5.3**	<0.075	<0.075	<0.075	<0.094	<0.096	0.15	<0.075	<41	<41	<41	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

BOLD concentrations exceeded the protection of groundwater residual contaminant level.

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level.

Underlined concentrations exceed the industrial direct contact residual contaminant level.

* Sample not evaluated since a soil sample was collected from an adjacent boring from the same depth at a later date that is more representative.

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

VOCs - volatile organic compounds

Table 2. Soil Analytical Results

1681-1683 North Van Buren Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	GP-28		GP-29		KB-12A	KB-30		KB-31	KB-32	SP-11		SP-12	SP-13	SP-15		
Sample Depth (feet bgs)				1'-3'	9'-11'	1'-3'	7'-9'	11'-13'	1'-3'	13'-15'	1'-3'	1'-3'	1-3	7'-9'	8'-10'	7-9	2-4	8'-10'	16-18
Sample Date				11/30/09		11/30/09		8/23/16	8/23/16		8/23/16	8/23/16	7/17/19		7/17/19	7/17/19	7/17/19		
Detected VOCs (mg/kg)																			
Benzene	1.6	7.07	0.0051	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0084	<0.0084	<0.0085	<0.0086	<0.0083	<0.0083	<0.0087
Chloroform	0.454	1.98	0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.021	<0.021	<0.022	<0.022	<0.021	<0.021	<0.022
cis-1,2-Dichloroethene	156	2,340	0.0412	<0.025	<0.025	0.0364 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.023	<0.023	<0.024	<0.024	<0.023	<0.023	<0.024
1,1-Dichloroethane	5.06	22.2	0.4834	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.024	<0.024	<0.024	<0.023	<0.023	<0.024
Ethylbenzene	8.02	35.4	1.57	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.011	<0.011	<0.011	<0.011	<0.010	<0.010	<0.011
Isopropylbenzene	---	---	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.023	<0.022	<0.022	<0.023
Naphthalene	5.52	24.1	0.6582	<0.025	<0.025	<0.025	<0.025	<0.040	<0.025	<0.025	<0.025	<0.025	<0.019	<0.019	0.10 B	0.033 J,B	0.021 J,B	<0.019	<0.020
n-Butylbenzene	108	108	---	<0.404	<0.404	<0.404	<0.404	<0.025	<0.404	<0.404	<0.404	<0.404	<0.022	<0.022	<0.023	<0.023	<0.022	<0.022	<0.023
n-Propylbenzene	264	264	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.024	<0.024	<0.024	<0.023	<0.023	<0.025
p-Isopropyltoluene	162	162	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.021	<0.021	<0.021	<0.021	<0.021	<0.020	<0.022
sec-Butylbenzene	183	183	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.024
tert-Butylbenzene	145	145	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.024
Tetrachloroethene	33	145	0.0045	**0.205**	<0.025	**0.377**	<0.025	<0.025	<0.025	<0.025	**0.067**	<0.025	<0.021	<0.021	<0.022	<0.022	**6.4**	**1.3**	**2.5**
Toluene	818	818	1.1072	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0085	<0.0084	<0.0086	<0.0086	<0.0083	<0.0083	<0.0088
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.020	<0.020	<0.020	<0.021	<0.020	<0.020	<0.021
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.020	<0.020	0.045 J	<0.020	<0.019	<0.019	<0.020
1,1,1-Trichloroethane	640	640	0.1402	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.023
Trichloroethene	1.3	8.41	0.0036	<0.025	<0.025	**0.0439 J**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0094	<0.0094	<0.0096	<0.0096	**0.28**	<0.0093	**0.083**
1,2,4 -Trimethylbenzene	219	219	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.021	<0.021	<0.021	<0.021	<0.020	<0.020	<0.021
1,3,5 -Trimethylbenzene	182	182	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.023
Total Trimethylbenzenes	---	---	0.689	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.043	<0.043	<0.043	<0.045	<0.042	<0.042	<0.044
Total Xylenes	260	260	3.96	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.013	<0.013	<0.013	<0.013	<0.012	<0.012	<0.013

BOLD concentrations exceeded the protection of groundwater residual contaminant level.

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level.

Underlined concentrations exceed the industrial direct contact residual contaminant level.

* Sample not evaluated since a soil sample was collected from an adjacent boring from the same depth at a later date that is more representative.

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

VOCs - volatile organic compounds

Table 2. Soil Analytical Results

1681-1683 North Van Buren Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	SP-16			SP-17			SP-18			SP-19			SP-20	SP-21	SP-22	SP-23	SP-24	
Sample Depth (feet bgs)				2-4	8-10	16-18	2-4	8-10	16-18	2-4	8-10	16-18	2-4	8-10	16-18	16'-18'	16-18	8-10	16-18	2-4	8-10
Sample Date				7/17/19			7/17/19			7/17/19			7/17/19			7/17/19	7/17/19	7/17/19	7/17/19	7/17/19	
Detected VOCs (mg/kg)																					
Benzene	1.6	7.07	0.0051	<0.0089	<0.0085	<0.0081	<0.0099	<0.0078	<0.0085	<0.010	<0.0082	<0.0099	<0.0098	<0.010	<0.0084	<0.0087	<0.0094	<0.0087	<0.0099	<0.0097	<0.010
Chloroform	0.454	1.98	0.0033	<0.023	<0.022	<0.021	<0.025	<0.020	<0.022	<0.026	<0.021	<0.025	<0.025	<0.026	<0.021	<0.022	<0.024	<0.022	<0.025	<0.025	<0.025
cis-1,2-Dichloroethene	156	2,340	0.0412	<0.025	<0.024	<0.023	<0.028	<0.022	<0.024	<0.029	<0.023	<0.028	<0.027	<0.029	<0.024	<0.024	<0.026	<0.024	<0.028	<0.027	<0.028
1,1-Dichloroethane	5.06	22.2	0.4834	<0.025	<0.024	<0.023	<0.028	<0.022	<0.024	<0.029	<0.023	<0.028	<0.028	<0.029	<0.024	<0.025	<0.026	<0.024	<0.028	<0.027	<0.028
Ethylbenzene	8.02	35.4	1.57	<0.011	<0.011	<0.010	<0.012	<0.0098	<0.011	<0.013	<0.010	<0.012	<0.012	<0.013	<0.011	<0.011	0.29	<0.011	<0.012	<0.012	<0.012
Isopropylbenzene	---	---	---	<0.023	<0.022	<0.021	<0.026	<0.021	<0.022	<0.027	<0.022	<0.026	<0.026	<0.027	<0.022	<0.023	<0.025	<0.023	<0.026	<0.025	<0.026
Naphthalene	5.52	24.1	0.6582	0.024 J,B	<0.020	<0.019	<0.023	<0.018	<0.019	0.029 J,B	<0.019	0.031 J,B	<0.022	<0.023	<0.019	<0.020	0.036 J	<0.020	<0.023	<0.022	<0.023
n-Butylbenzene	108	108	---	<0.024	<0.023	<0.022	<0.026	<0.021	<0.023	<0.027	<0.022	<0.026	<0.026	<0.027	<0.022	<0.023	<0.025	<0.023	<0.026	<0.026	<0.026
n-Propylbenzene	264	264	---	<0.025	<0.024	<0.023	<0.028	<0.022	<0.024	<0.029	<0.023	<0.028	<0.028	<0.029	<0.024	<0.025	0.10	<0.025	<0.028	<0.027	<0.028
p-Isopropyltoluene	162	162	---	<0.022	<0.021	<0.020	<0.025	<0.019	<0.021	<0.025	<0.020	<0.024	<0.024	<0.025	<0.021	<0.022	<0.023	<0.021	<0.025	<0.024	<0.025
sec-Butylbenzene	183	183	---	<0.024	<0.023	<0.022	<0.027	<0.021	<0.023	<0.028	<0.022	<0.027	<0.027	<0.028	<0.023	<0.024	<0.026	<0.024	<0.027	<0.026	<0.027
tert-Butylbenzene	145	145	---	<0.024	<0.023	<0.022	<0.027	<0.021	<0.023	<0.028	<0.022	<0.027	<0.027	<0.028	<0.023	<0.024	<0.026	<0.024	<0.027	<0.026	<0.027
Tetrachloroethene	33	145	0.0045	**3.5**	<0.022	<0.021	<0.025	<0.020	<0.022	<0.026	<0.021	<0.025	<0.025	<0.026	<0.021	<0.022	<0.024	<0.022	<0.025	<0.025	<0.025
Toluene	818	818	1.1072	<0.0090	<0.0086	<0.0082	<0.010	<0.0079	<0.0085	<0.010	<0.0082	<0.0099	<0.0099	<0.010	<0.0085	<0.0088	<0.0095	<0.0087	<0.010	<0.0097	<0.010
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.021	<0.020	<0.019	<0.024	<0.019	<0.020	<0.024	<0.020	<0.024	<0.024	<0.025	<0.020	<0.021	<0.023	<0.021	<0.024	<0.023	<0.024
1,2,4-Trichlorobenzene	24	113	0.408	<0.021	<0.020	<0.019	<0.023	<0.018	<0.020	<0.024	<0.019	<0.023	<0.023	<0.024	<0.020	<0.020	<0.022	<0.020	<0.023	<0.023	<0.023
1,1,1-Trichloroethane	640	640	0.1402	<0.023	<0.022	<0.021	<0.026	<0.020	<0.022	<0.027	<0.021	<0.026	<0.026	<0.027	<0.022	<0.023	<0.025	<0.023	<0.026	<0.025	<0.026
Trichloroethene	1.3	8.41	0.0036	<0.010	<0.0096	<0.0091	<0.011	<0.0088	<0.0095	<0.011	<0.0092	<0.011	<0.011	<0.011	<0.0094	<0.0098	<0.011	<0.0097	<0.011	<0.011	<0.011
1,2,4 -Trimethylbenzene	219	219	---	<0.022	<0.021	<0.020	<0.024	<0.019	<0.021	<0.025	<0.020	<0.024	<0.024	<0.025	<0.021	<0.021	<0.023	<0.021	<0.024	<0.024	<0.024
1,3,5 -Trimethylbenzene	182	182	---	<0.023	<0.022	<0.021	<0.026	<0.020	<0.022	<0.027	<0.021	<0.026	<0.026	<0.027	<0.022	<0.023	<0.025	<0.023	<0.026	<0.025	<0.026
Total Trimethylbenzenes	---	---	0.689	<0.045	<0.043	<0.041	<0.050	<0.039	<0.043	<0.052	<0.041	<0.050	<0.050	<0.052	<0.043	<0.044	<0.048	<0.044	<0.050	<0.049	<0.050
Total Xylenes	260	260	3.96	<0.013	<0.013	<0.012	<0.015	<0.012	<0.013	<0.015	<0.012	<0.015	<0.015	<0.015	<0.013	<0.013	<0.014	<0.013	<0.015	<0.015	<0.015

BOLD concentrations exceeded the protection of groundwater residual contaminant level.

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level.

Underlined concentrations exceed the industrial direct contact residual contaminant level.

* Sample not evaluated since a soil sample was collected from an adjacent boring from the same depth at a later date that is more representative.

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

VOCs - volatile organic compounds

Table 2. Soil Analytical Results

1681-1683 North Van Buren Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	SP-25	SP-26	SP-27
Sample Depth (feet bgs)				8-10	2-4	2-4
Sample Date				7/17/19	7/17/19	7/17/19
Detected VOCs (mg/kg)						
Benzene	1.6	7.07	0.0051	<0.010	<0.0099	<0.0078
Chloroform	0.454	1.98	0.0033	<0.025	<0.025	<0.020
cis-1,2-Dichloroethene	156	2,340	0.0412	<0.028	<0.028	<0.022
1,1-Dichloroethane	5.06	22.2	0.4834	<0.028	<0.028	<0.022
Ethylbenzene	8.02	35.4	1.57	<0.013	<0.012	<0.0098
Isopropylbenzene	---	---	---	<0.026	<0.026	<0.021
Naphthalene	5.52	24.1	0.6582	<0.023	<0.023	<0.018
n-Butylbenzene	108	108	---	<0.027	<0.026	<0.021
n-Propylbenzene	264	264	---	<0.028	<0.028	<0.022
p-Isopropyltoluene	162	162	---	<0.025	<0.025	<0.019
sec-Butylbenzene	183	183	---	<0.027	<0.027	<0.021
tert-Butylbenzene	145	145	---	<0.027	<0.027	<0.021
Tetrachloroethene	33	145	0.0045	<0.025	<0.025	**0.064**
Toluene	818	818	1.1072	<0.010	<0.010	<0.0079
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.024	<0.024	<0.019
1,2,4-Trichlorobenzene	24	113	0.408	<0.023	<0.023	<0.018
1,1,1-Trichloroethane	640	640	0.1402	<0.026	<0.026	<0.020
Trichloroethene	1.3	8.41	0.0036	<0.011	<0.011	<0.0088
1,2,4 -Trimethylbenzene	219	219	---	<0.025	<0.024	<0.019
1,3,5 -Trimethylbenzene	182	182	---	<0.026	<0.026	<0.020
Total Trimethylbenzenes	---	---	0.689	<0.051	<0.050	<0.039
Total Xylenes	260	260	3.96	<0.015	<0.015	<0.012

BOLD concentrations exceeded the protection of groundwater residual contaminant level.

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level.

Underlined concentrations exceed the industrial direct contact residual contaminant level.

* Sample not evaluated since a soil sample was collected from an adjacent boring from the same depth at a later date that is more representative.

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

VOCs - volatile organic compounds

Table 3. Offsite Soil Analytical Results

Former Comedy Club, 612 East Brady Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	GP-3	GP-3	GP-4		GP-4R	GP-5	GP-5R	GP-12		GP-13		GP-14		GP-15		GP-15R	GP-16	
Sample Depth (feet bgs)				7'-8'	11'-12'	1'-2'	7'-8'	11'-13'	3'-4'	6'-8'	1'-2.5'	7'-9'	1'-2.5'	7.5'-10'	1'-2.5'	7.5'-10'	2.5'-5'	9'-11'	11'-12'	1'-2.5'	10.5'-12
Sample Date				11/7/05	11/7/05	11/7/05		3/30/09	11/7/05	3/30/09	3/30/09		3/30/09		3/30/09		3/30/09		11/30/09	3/30/09	
Detected VOCs (mg/kg)																					
Benzene	1.6	7.07	0.0051	<0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.684	<0.025	<0.025	<0.025
Chloroform	0.454	1.98	0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	156	2340	0.0412	<0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0341 J	**0.417**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,1-Dichloroethane	5.06	22.2	0.4834	<0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0415 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	8.02	35.4	1.57	**53**	0.034	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropylbenzene	---	---	---	7.4	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Naphthalene	5.52	24.1	0.6582	**13.6**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.040	<0.040	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
n-Butylbenzene	108	108	---	21.8	<0.025	<0.025	<0.025	<0.0404	<0.025	<0.0404	<0.0404	<0.0404	<0.0404	<0.025	<0.0404	<0.0404	<0.0404	<0.0404	<0.0404	<0.0404	<0.0404
n-Propylbenzene	264	264	---	40	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
p-Isopropyltoluene	162	162	---	0.98	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	183	183	---	4.4	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
tert-Butylbenzene	145	145	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	33	145	0.0045	<0.5	<0.025	**10**	**0.034 J**	<0.025	**0.087**	<0.025	**0.258**	**7.83**	**0.584**	**2.35**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Toluene	818	818	1.1072	<0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0318 J	<0.025
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	640	640	0.1402	<0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0381	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Trichloroethene	1.3	8.41	0.0036	<0.5	<0.025	**0.041 J**	<0.025	<0.025	**0.06**	<0.025	**0.0478 J**	**0.479**	**0.0342**	**0.229**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4 -Trimethylbenzene	219	219	---	4.6	0.041	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,3,5 -Trimethylbenzene	182	182	---	17	0.034	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Total Trimethylbenzenes	---	---	0.689	**21.6**	0.075	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	260	260	3.96	**46.78**	0.078	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

BOLD concentrations exceeded the protection of groundwater residual contaminant level.

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level.

Underlined concentrations exceed the industrial direct contact residual contaminant level.

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

VOCs - volatile organic compounds

Table 3. Offsite Soil Analytical Results

Former Comedy Club, 612 East Brady Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	GP-17		GP-18		GP-19		GP-20		GP-21		GP-22		GP-23	GP-24		GP-25	
Sample Depth (feet bgs)				2.5'-5'	10.5'-12'	1'-2.5'	10'-12'	1'-2.5'	13.5'-15'	7'-9'	12'-13'	7'-9'	13'-15'	7'-9'	13'-15'	7'-9'	7'-9'	13'-15'	5'-7'	10'-12'
Sample Date				3/30/09		3/30/09		3/30/09		3/30/09		11/30/09		11/30/09		11/30/09	11/30/09		11/30/09	
Detected VOCs (mg/kg)																				
Benzene	1.6	7.07	0.0051	<0.025	<0.025	**<u>0.362 J</u>**	<0.025	<0.5	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chloroform	0.454	1.98	0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	156	2340	0.0412	<0.025	<0.025	<0.25	<0.025	<0.5	<0.025	**3.13**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,1-Dichloroethane	5.06	22.2	0.4834	<0.025	<0.025	<0.25	<0.025	<0.5	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	8.02	35.4	1.57	0.0868	<0.025	**30**	<0.025	**8.65**	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropylbenzene	---	---	---	<0.025	<0.025	3.55	<0.025	2.39	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Naphthalene	5.52	24.1	0.6582	<0.025	<0.025	**22.6**	<0.025	**14**	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
n-Butylbenzene	108	108	---	<0.0404	<0.0404	<0.404	<0.0404	<0.808	<0.0404	<505	<0.0404	<0.0404	<0.0404	<0.0404	<0.0404	<0.0404	<0.0404	<0.025	<0.0404	<0.0404
n-Propylbenzene	264	264	---	0.239	<0.025	13.6	<0.025	8.19	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
p-Isopropyltoluene	162	162	---	<0.025	<0.025	2.22	<0.025	9.87	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	183	183	---	0.149	<0.025	1.52	<0.025	3.85	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
tert-Butylbenzene	145	145	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	33	145	0.0045	<0.025	<0.025	<0.25	<0.025	<0.5	<0.025	**98.8**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	**0.027 J**	<0.025	<0.025	<0.025
Toluene	818	818	1.1072	<0.025	<0.025	0.381 J	<0.025	<0.5	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.025	<0.025	<0.25	<0.025	<0.5	<0.025	**0.346 J**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	640	640	0.1402	<0.025	<0.025	<0.25	<0.025	<0.5	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Trichloroethene	1.3	8.41	0.0036	<0.025	<0.025	<0.25	<0.025	<0.5	<0.025	**<u>15.3</u>**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4 -Trimethylbenzene	219	219	---	0.0354 J	<0.025	45.9	<0.025	<0.5	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,3,5 -Trimethylbenzene	182	182	---	<0.025	<0.025	0.595 J	<0.025	1.83 J	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Total Trimethylbenzenes	---	---	0.689	0.0354 J	<0.050	**46.495**	<0.050	**1.83 J**	<0.050	>0.624	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	260	260	3.96	<0.025	<0.025	**14.16**	<0.025	<0.5	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

BOLD concentrations exceeded the protection of groundwater residual contaminant level.

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level

<u>Underlined</u> concentrations exceed the industrial direct contact residual contaminant level.

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

VOCs - volatile organic compounds

Table 3. Offsite Soil Analytical Results

Former Comedy Club, 612 East Brady Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	GP-26		GP-27		GP-28		GP-29		GP-35	GP-36			GP-37	GP-38		GP-39	
Sample Depth (feet bgs)				3'-5'	9'-11'	7'-9'	13'-15'	1'-3'	9'-11'	1'-3'	7'-9'	19'-20'	1'-2'	9'-10'	14'-15'	3'-4'	3'-4'	7'-8'	3'-4'	6'-7'
Sample Date				11/30/09		11/30/09		11/30/09		11/30/09		9/12/17	9/12/17			10/19/17	10/19/17		10/19/17	
Detected VOCs (mg/kg)																				
Benzene	1.6	7.07	0.0051	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.06	**0.045 J**
Chloroform	0.454	1.98	0.0033	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.07	<0.035
cis-1,2-Dichloroethene	156	2340	0.0412	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0364 J	<0.025	<0.032	**0.227**	<0.032	<0.032	<0.032	<0.032	<0.032	<0.064	<0.032
1,1-Dichloroethane	5.06	22.2	0.4834	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.068	<0.034
Ethylbenzene	8.02	35.4	1.57	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.07	<0.035
Isopropylbenzene	---	---	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.034	<0.034	<0.034	<0.034	<0.034	0.112	<0.034	<0.068	<0.034
Naphthalene	5.52	24.1	0.6582	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.188	<0.094
n-Butylbenzene	108	108	---	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404	<0.04	<0.04	<0.04	<0.04	<0.04	<0.211	<0.04	<0.08	<0.04
n-Propylbenzene	264	264	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.033	<0.033	<0.033	<0.033	<0.033	0.50	<0.033	<0.066	<0.033
p-Isopropyltoluene	162	162	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.058	<0.029
sec-Butylbenzene	183	183	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.033	<0.033	<0.033	<0.033	<0.033	0.10 J	<0.033	<0.066	<0.033
tert-Butylbenzene	145	145	---	NA	NA	NA	NA	NA	NA	NA	NA	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.052	<0.026
Tetrachloroethene	33	145	0.0045	**0.113**	<0.025	<0.025	<0.025	**0.205**	<0.025	**0.377**	<0.025	<0.032	**0.36**	<0.032	<0.032	<0.032	**0.202**	**0.169**	**27.3**	<0.032
Toluene	818	818	1.1072	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.064	<0.032
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.056	<0.028
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	640	640	0.1402	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.06	<0.03
Trichloroethene	1.3	8.41	0.0036	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	**0.0439 J**	<0.025	<0.041	**1.71**	<0.041	<0.041	<0.041	<0.041	<0.041	**0.199 J**	<0.041
1,2,4 -Trimethylbenzene	219	219	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.025
1,3,5 -Trimethylbenzene	182	182	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.064	<0.032
Total Trimethylbenzenes	---	---	0.689	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.114	<0.057
Total Xylenes	260	260	3.96	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.116	<0.116	<0.116	<0.116	<0.116	<0.116	<0.116	<0.232	<0.116

BOLD concentrations exceeded the protection of groundwater residual contaminant level.

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level

Underlined concentrations exceed the industrial direct contact residual contaminant level.

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

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NA - not analyted or not available

VOCs - volatile organic compounds

Table 3. Offsite Soil Analytical Results

Former Comedy Club, 612 East Brady Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	GP-40		GP-41	GP-42		GP-43		GP-44		GP-45		GP-46		GP-47		GP-48	GP-49	
Sample Depth (feet bgs)				3'-4'	5'-6'	3'-4'	3'-4'	7'-8'	3'-4'	7'-8'	3'-4'	7'-8'	3'-4'	7'-8'	3'-4'	7'-8'	3'-4'	7'-8'	7'-8'	3'-4'	7'-8'
Sample Date				10/19/17		10/19/17	10/19/17		4/18/18		4/18/18		4/18/18		4/18/18		4/18/18		4/18/18	4/18/18	
Detected VOCs (mg/kg)																					
Benzene	1.6	7.07	0.0051	<0.03	<0.03	<0.03	<0.03	<0.03	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chloroform	0.454	1.98	0.0033	<0.035	<0.035	<0.035	<0.035	<0.035	<0.025	<0.025	<0.025	<0.026	**0.092B**	**0.0704B**	**0.0362B**	**0.0786B**	<0.025	<0.025	<0.025	<0.025	<0.0257
cis-1,2-Dichloroethene	156	2340	0.0412	<0.032	<0.032	<0.032	<0.032	<0.032	<0.025	<0.0259	**0.0505**	**0.0573**	**0.953**	**0.055**	<0.025	**0.0727**	**1.61**	**0.0722**	**0.319**	<0.025	**0.0645**
1,1-Dichloroethane	5.06	22.2	0.4834	<0.034	<0.034	<0.034	<0.034	<0.034	<0.0256	<0.0377	<0.025	<0.0419	<0.0293	***25.7***	<0.025	<0.0272	<0.027	<0.0304	<0.0289	<0.0266	<0.0413
Ethylbenzene	8.02	35.4	1.57	0.309	<0.035	<0.035	<0.035	<0.035	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropylbenzene	---	---	---	0.253	<0.034	<0.034	<0.034	<0.034	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5.52	24.1	0.6582	<0.094	<0.094	<0.094	<0.094	<0.094	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	108	108	---	1.1	<0.04	<0.04	<0.04	<0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	264	264	---	1.31	<0.033	<0.033	<0.033	<0.033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	162	162	---	0.104	<0.029	<0.029	<0.029	<0.029	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	183	183	---	0.291	<0.033	<0.033	<0.033	<0.033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	145	145	---	<0.026	<0.026	<0.026	<0.026	<0.026	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	33	145	0.0045	**0.054 J**	**0.164**	**0.048 J**	**0.034 J**	**0.132**	<0.025	<0.025	**3.64**	**0.934**	**77.7**	**60.3**	**14**	**0.971**	**0.312**	**1.37**	**5.84**	**1.06**	**1.09**
Toluene	818	818	1.1072	<0.032	<0.032	<0.032	<0.032	<0.032	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.028	<0.028	<0.028	<0.028	<0.028	<0.025	<0.0356	<0.025	<0.0395	<0.0276	<0.025	<0.025	<0.0256	<0.0255	<0.0287	<0.0272	<0.0251	<0.039
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	640	640	0.1402	<0.03	<0.03	<0.03	<0.03	<0.03	<0.025	<0.0251	<0.025	<0.0279	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0275
Trichloroethene	1.3	8.41	0.0036	<0.041	<0.041	<0.041	<0.041	<0.041	<0.025	<0.025	**0.774**	**0.188**	**4.57**	**1.49**	**0.0322**	**0.20**	**0.882**	**0.265**	**4.78**	**0.0411**	**0.210**
1,2,4 -Trimethylbenzene	219	219	---	0.048 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0454	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,3,5 -Trimethylbenzene	182	182	---	<0.032	<0.032	<0.032	<0.032	<0.032	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Total Trimethylbenzenes	---	---	0.689	0.048	<0.057	<0.057	<0.057	<0.057	<0.050	<0.050	<0.050	<0.050	0.0454	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	260	260	3.96	<0.116	<0.116	<0.116	<0.116	<0.116	<0.0619	<0.0914	<0.0323	<0.101	<0.0708	<0.0564	<0.0288	<0.0658	<0.0655	<0.0736	<0.0699	<0.0644	<0.1

BOLD concentrations exceeded the protection of groundwater residual contaminant level.

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level

Underlined concentrations exceed the industrial direct contact residual contaminant level.

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

VOCs - volatile organic compounds

Table 3. Offsite Soil Analytical Results

Former Comedy Club, 612 East Brady Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	GP-50		KB-12A	KB-30		KB-31	KB-32	SP-11		SP-12	SP-13
Sample Depth (feet bgs)				3'-4'	7'-8'	11'-13'	1'-3'	13'-15'	1'-3'	1'-3'	1-3	7'-9'	8'-10'	7-9
Sample Date				4/18/18		8/23/16	8/23/16		8/23/16	8/23/16	7/17/19		7/17/19	7/17/19
Detected VOCs (mg/kg)														
Benzene	1.6	7.07	0.0051	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0084	<0.0084	<0.0085	<0.0086
Chloroform	0.454	1.98	0.0033	<0.025	<0.0284						<0.021	<0.021	<0.022	<0.022
cis-1,2-Dichloroethene	156	2340	0.0412	<0.025	<0.0313	<0.025	<0.025	<0.025	<0.025	<0.025	<0.023	<0.023	<0.024	<0.024
1,1-Dichloroethane	5.06	22.2	0.4834	<0.0283	<0.0457	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.024	<0.024	<0.024
Ethylbenzene	8.02	35.4	1.57	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.011	<0.011	<0.011	<0.011
Isopropylbenzene	---	---	---	NA	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.023
Naphthalene	5.52	24.1	0.6582	NA	NA	<0.040	<0.025	<0.025	<0.025	<0.025	<0.019	<0.019	0.10B	0.033 J,B
n-Butylbenzene	108	108	---	NA	NA	<0.025	<0.404	<0.404	<0.404	<0.404	<0.022	<0.022	<0.023	<0.023
n-Propylbenzene	264	264	---	NA	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.024	<0.024	<0.024
p-Isopropyltoluene	162	162	---	NA	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.021	<0.021	<0.021	<0.021
sec-Butylbenzene	183	183	---	NA	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.023	<0.023	<0.023	<0.023
tert-Butylbenzene	145	145	---	NA	NA	NA	NA	NA	NA	NA	<0.023	<0.023	<0.023	<0.023
Tetrachloroethene	33	145	0.0045	**0.228**	<0.025	<0.025	<0.025	<0.025	**0.067**	<0.025	<0.021	<0.021	<0.022	<0.022
Toluene	818	818	1.1072	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0085	<0.0084	<0.0086	<0.0086
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.0267	<0.0431	<0.025	<0.025	<0.025	<0.025	<0.025	<0.020	<0.020	<0.020	<0.021
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	<0.020	<0.020	0.045 J	<0.020
1,1,1-Trichloroethane	640	640	0.1402	<0.025	<0.0304	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.022
Trichloroethene	1.3	8.41	0.0036	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0094	<0.0094	<0.0096	<0.0096
1,2,4 -Trimethylbenzene	219	219	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.021	<0.021	<0.021	<0.021
1,3,5 -Trimethylbenzene	182	182	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.022
Total Trimethylbenzenes	---	---	0.689	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.043	<0.043	<0.043	<0.045
Total Xylenes	260	260	3.96	<0.0686	<0.111	<0.025	<0.025	<0.025	<0.025	<0.025	<0.013	<0.013	<0.013	<0.013

BOLD concentrations exceeded the protection of groundwater residual contaminant level.

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level

Underlined concentrations exceed the industrial direct contact residual contaminant level.

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

VOCs - volatile organic compounds

Table 4. Groundwater Analytical Results

1681 North Van Buren Street, Milwaukee, Wisconsin

PARAMETERS	Preventive Action Limits	Enforcement Standards	GP-11/TW-1	MW-1	
Date Collected			5/10/06	6/22/06	11/1/06
Detected VOCs (µg/l)					
Benzene	0.5	5	<0.20	0.20 J	<0.47

Notes:

J - analyte detected between limit of detection and limit of quantitation

µg/l - micrograms per liter

VOCs - volatile organic compounds

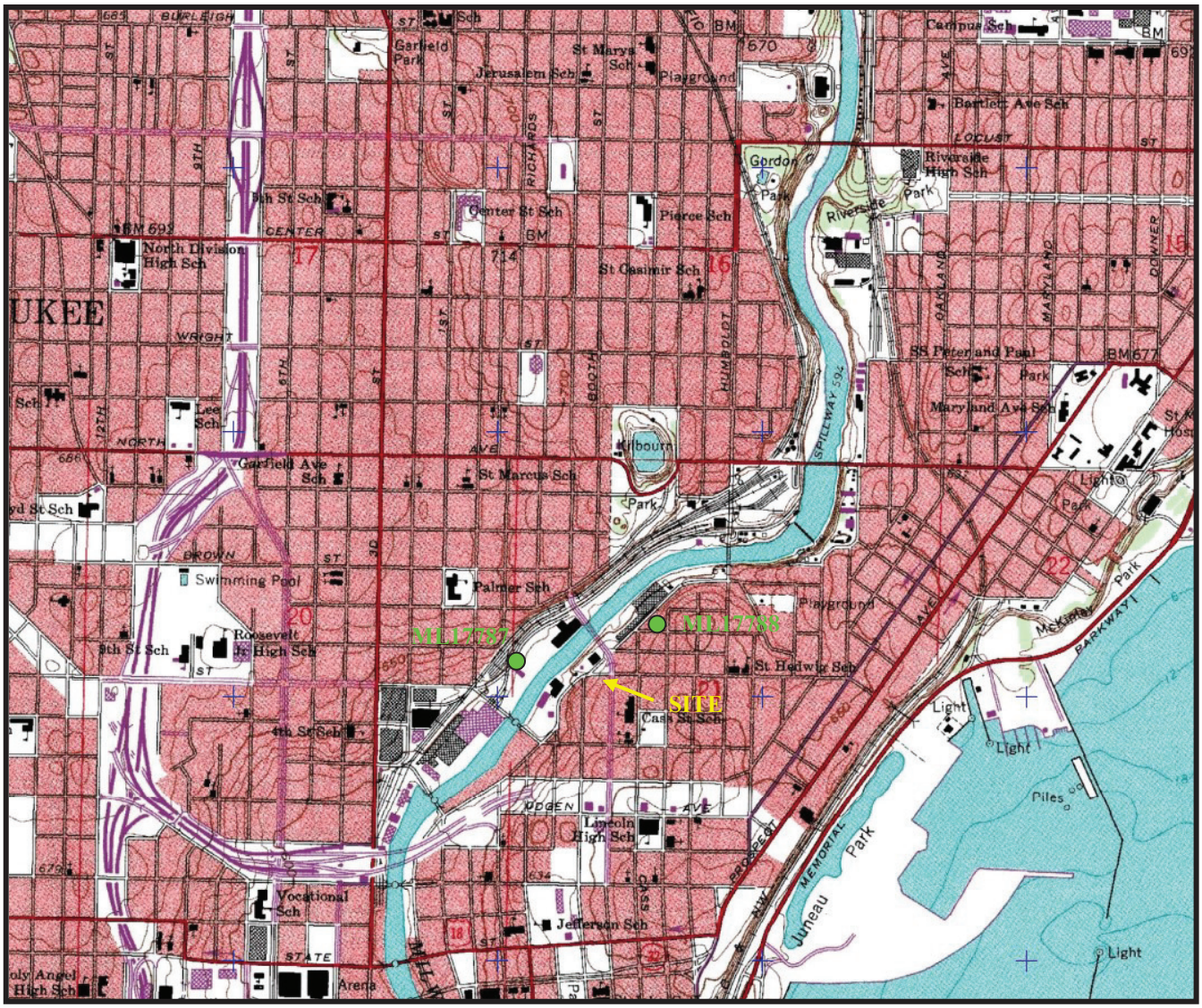
Table 5. Sub-slab Vapor and Indoor Air Analytical Results
1681 North Van Buren Street, Milwaukee, Wisconsin

Sample I.D.	Small Commerical Sub-Slab Vapor Risk Screening Level	Small Commerical Indoor Air Vapor Action Levels	VS-1	VS-2	VS-3	AS-1	VP-1	VP-2	VP-3	VP-4	IA-1
Sample Type - Sub-Slab (SS)/Near-Slab (NS)			SS	SS	SS	IA	SS	SS	SS	SS	IA
Duration of Sample Collection (hrs)			0.5	0.5	0.5	24	0.5	0.5	0.5	0.5	8
Date Collected			10/20/2014	11/17/2015	11/17/2015	11/19/2014	4/28/2019	4/28/2019	4/28/2019	4/28/2019	4/28/2019
Detected VOCs (ug/m^3)											
Acetone	4,620,000	140,000	NA	NA	NA	23,100	1,340	1,780	971	1,440	40,200
Benzene	528	16	NA	NA	NA	<0.43	3.0	2.8	2.7	2.3	<0.21
2-Butanone (MEK)	726,000	22,000	NA	NA	NA	<1.0	20.3	65.2	16.0	22.0	802
Carbon disulfide	102,300	3,100	NA	NA	NA	<0.26	<0.39	2.3	<0.38	2.3	<0.30
Chloroform	175	5.3	NA	NA	NA	<0.66	3.8	2.4	<0.34	<0.35	4.1
Chloromethane	12,870	390	NA	NA	NA	<0.70	<0.28	<0.28	<0.27	3.7	<0.21
Cyclohexane	858,000	26,000	NA	NA	NA	<0.46	<0.63	7.6	6.9	<0.63	<0.48
Dichlorodifluoromethane	14,520	440	NA	NA	NA	3.2 J	2.5	2.4	<0.51	2.9	3.0
cis-1,2-Dichloroethene	--	---	17	4.3	<0.43	<0.72	<0.39	<0.39	<0.38	<0.39	<0.30
trans-1,2-Dichloroethene	--	---	9.0	1.9	<0.67	<0.60	<0.51	<0.51	<0.50	<0.51	<0.39
Ethanol	--	---	NA	NA	NA	1,510	326	97.2	156	233	1,240
Ethyl acetate	10,230	310	NA	NA	NA	1,980	27.0	28.4	24.6	15.8	2,880
Ethylbenzene	1,617	49	NA	NA	NA	<0.66	7.1	5.7	6.8	5.1	1.8
4-Ethyltoluene	--	---	NA	NA	NA	<0.64	2.9 J	4.0 J	4.6	2.1 J	<0.78
n-Heptane	--	---	NA	NA	NA	6.5 J	6.0	6.8	6.6	5.1	<0.52
n-Hexane	102,300	3,100	NA	NA	NA	8.1	7.8	10.5	10.8	24.3	119
2-Hexanone	4,290	130	NA	NA	NA	<0.78	<1.3	1.5 J	1.4 J	1.6 J	1.1 J
Methylene Chloride	85,800	2,600	NA	NA	NA	23.2	8.2	11.5	5.6 J	202	13.4
4-Methyl-2-pentanone (MIBK)	429,000	13,000	NA	NA	NA	75.4	5.7 J	2.0 J	6.8 J	1.2 J	11.0
Naphthalene	119	3.6	NA	NA	NA	<0.95	<2.4	<2.4	2.8 J	<2.4	<1.8
2-Propanol	--	---	NA	NA	NA	<0.34	388	239	205	391	9,490
Styrene	145,200	4,400	NA	NA	NA	<0.50	<0.62	<0.62	0.97 J	<0.62	3.5
Tetrachloroethene	5,940	180	322	347	147	15.8	287	221	49.4	146	72.9
Tetrahydrofuran	--	---	NA	NA	NA	<0.51	6.3	266	10.5	69.0	<0.35
Toluene	726,000	22,000	NA	NA	NA	7.9	11.3	10.2	10.7	10.2	18.0
1,1,1-Trichloroethane	726,000	22,000	NA	NA	NA	<0.51	1.8 J	4.7	<0.54	1.4 J	<0.42
Trichloroethene	290	8.8	117	44	1.4	<0.65	23.6	12.9	4.6	8.1	<0.35
Trichlorofluoromethane	102,300	3,100	NA	NA	NA	<0.51	1.4 J	1.5 J	<0.64	1.8 J	<0.50
1,2,4-Trimethylbenzene	1,023	31	NA	NA	NA	<0.45	11.0	11.7	13.4	7.9	4.6
1,3,5-Trimethylbenzene	--	---	NA	NA	NA	<0.76	3.6	<0.71	3.5	2.4	1.7
m&p-Xylene	14,520	440	NA	NA	NA	<0.51	17.4	14.7	15.8	12.5	4.1
o-Xylene	14,520	440	NA	NA	NA	<1.6	7.1	5.8	6.2	5.1	1.7

Boxed values exceed indoor air vapor action levels
Bold values exceed sub-slab or near slab vapor risk screening levels
J - Concentration estimated
ug/m3 = Micrograms per cubic meter

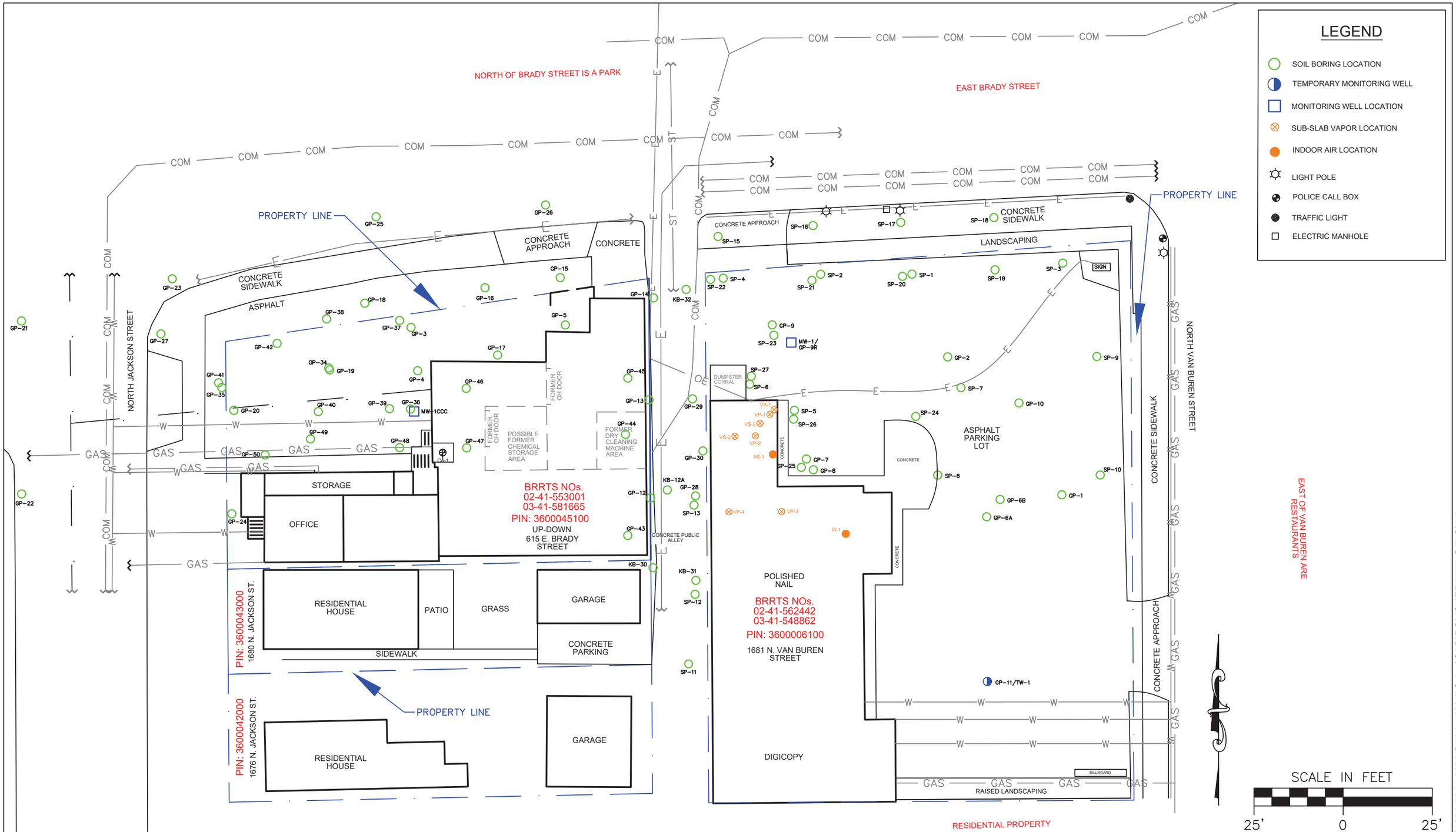
- - no target subslab vapor standard established
All vapor samples collected into 6 liter Summa canisters
Vapor Action Levels based on USEPA Regional Screening Levels (RSLs), November 2014
Occupational Safety and Health Administration permissible exposure limit for ethyl actetate is 1,400,000 micrograms per cubic meter and found in nail polish remover.

Figures



● **POTENTIAL WATER SUPPLY WELL**

N W E S	Project: 1604-1011-0002 Map Source: United States Geologic Survey Map Date: 1971 Quadrangle Map: Milwaukee, Wisconsin 7.5 Minute Series	FIGURE 1 SITE LOCATION MAP 1681 NORTH VAN BUREN STREET MILWAUKEE, WISCONSIN	KEY ENGINEERING GROUP LTD. A Division of SET Environmental Inc



DESIGNED BY: TLS	DATE: 08/16/2019
DRAWN BY: JMD	PROJECT: 1604-1011-0002
APPROVED BY: TLS	SHEET NO.

FIGURE 2
SITE LAYOUT MAP
1681 NORTH VAN BUREN STREET
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

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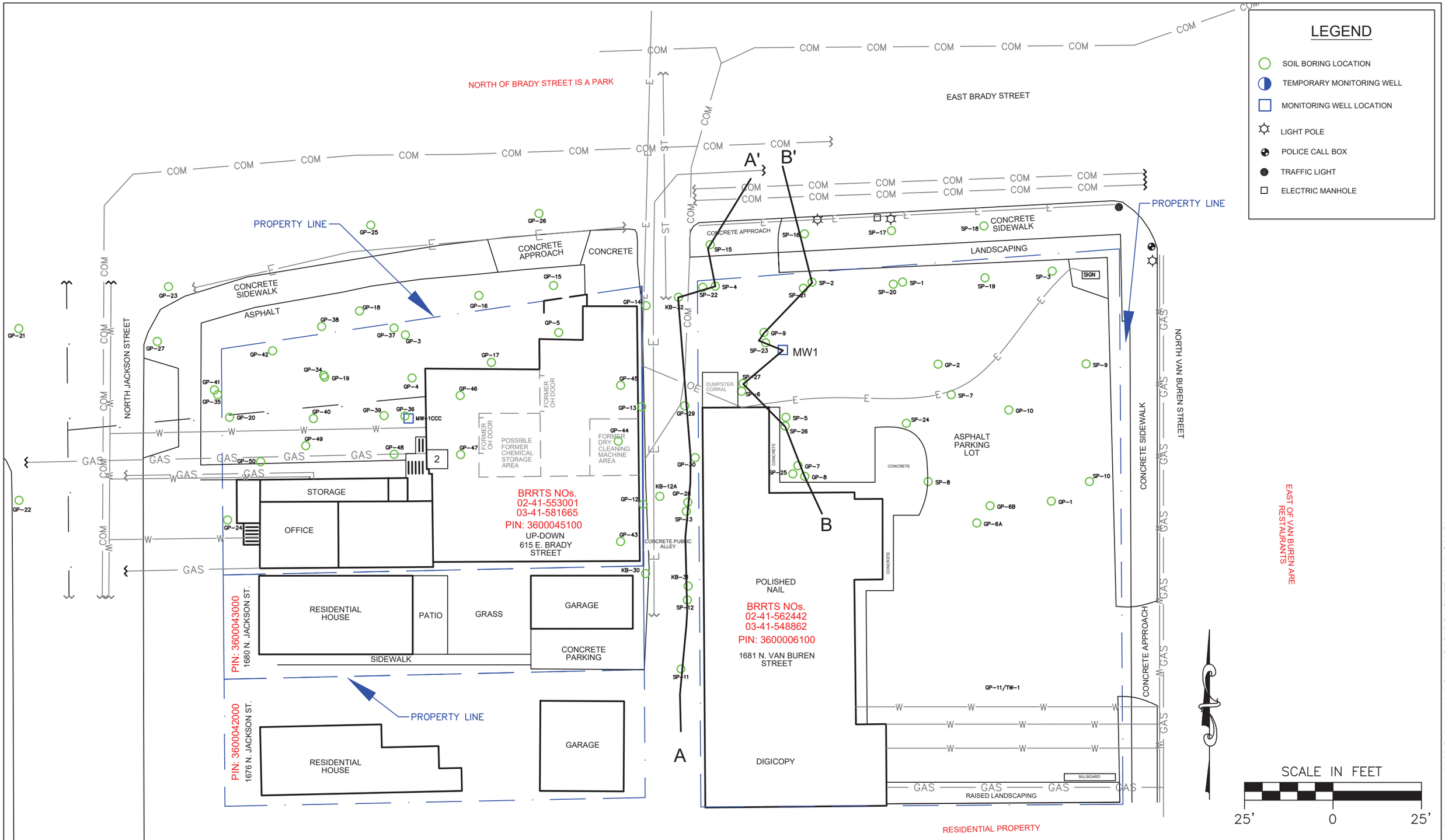

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APPROVED BY: TLS	SHEET NO.

FIGURE 3
LOCATION OF GEOLOGIC CROSS SECTIONS A-A' AND B-B'
1681 NORTH VAN BUREN STREET
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

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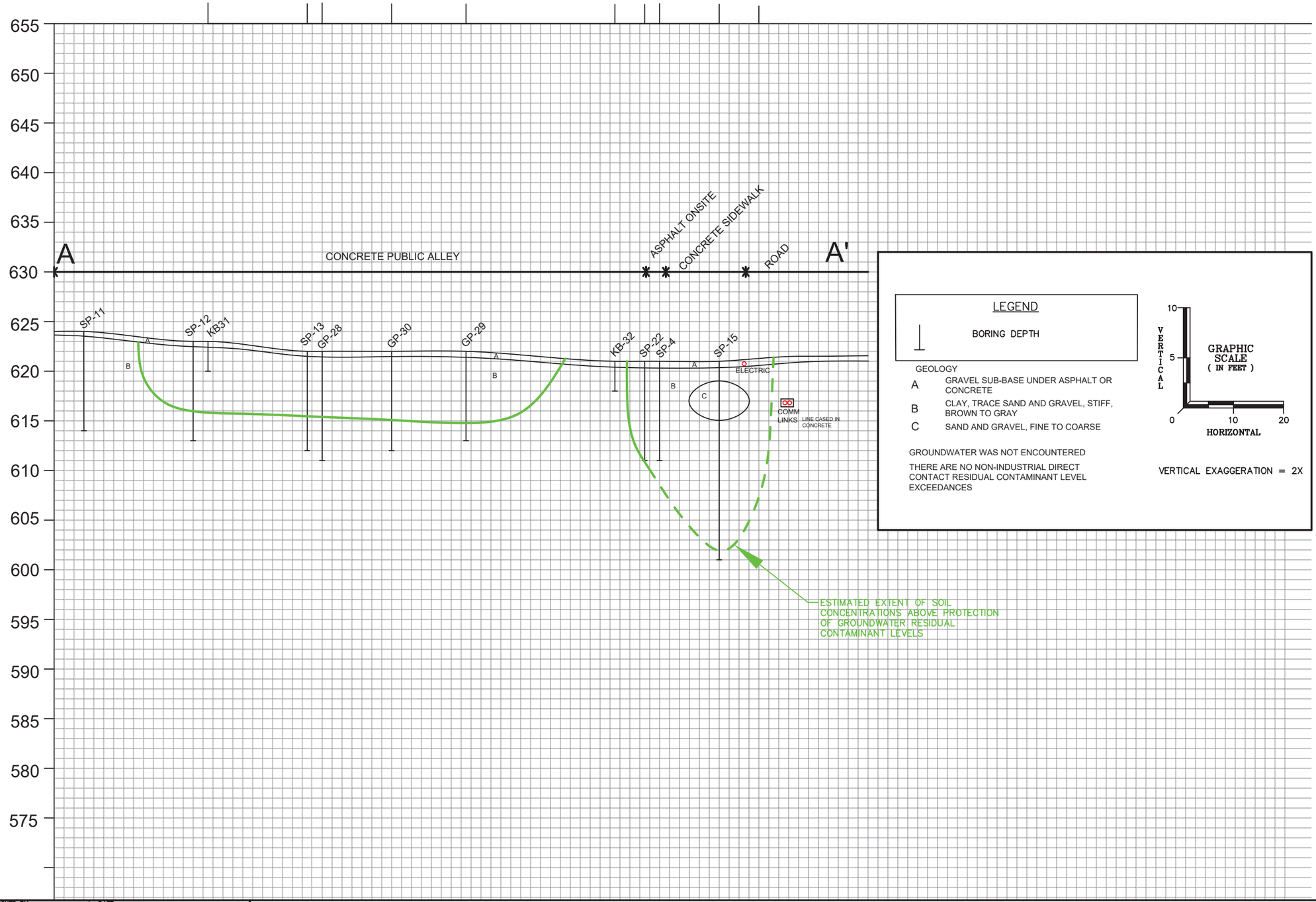

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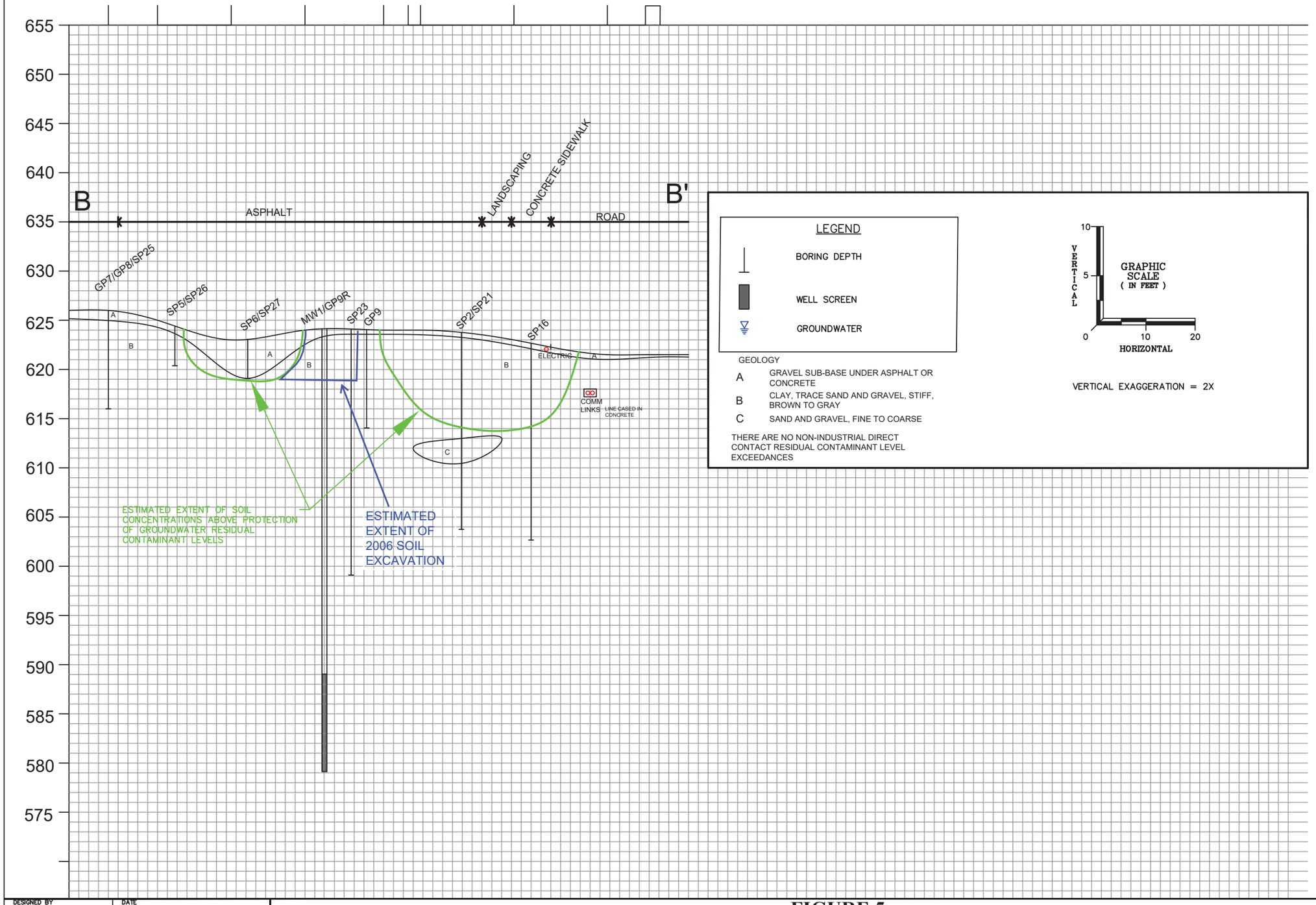
APPROVED BY: TLS	SHEET NO.

FIGURE 4
GEOLOGIC CROSS SECTION A-A'
1681 NORTH VAN BUREN STREET
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)



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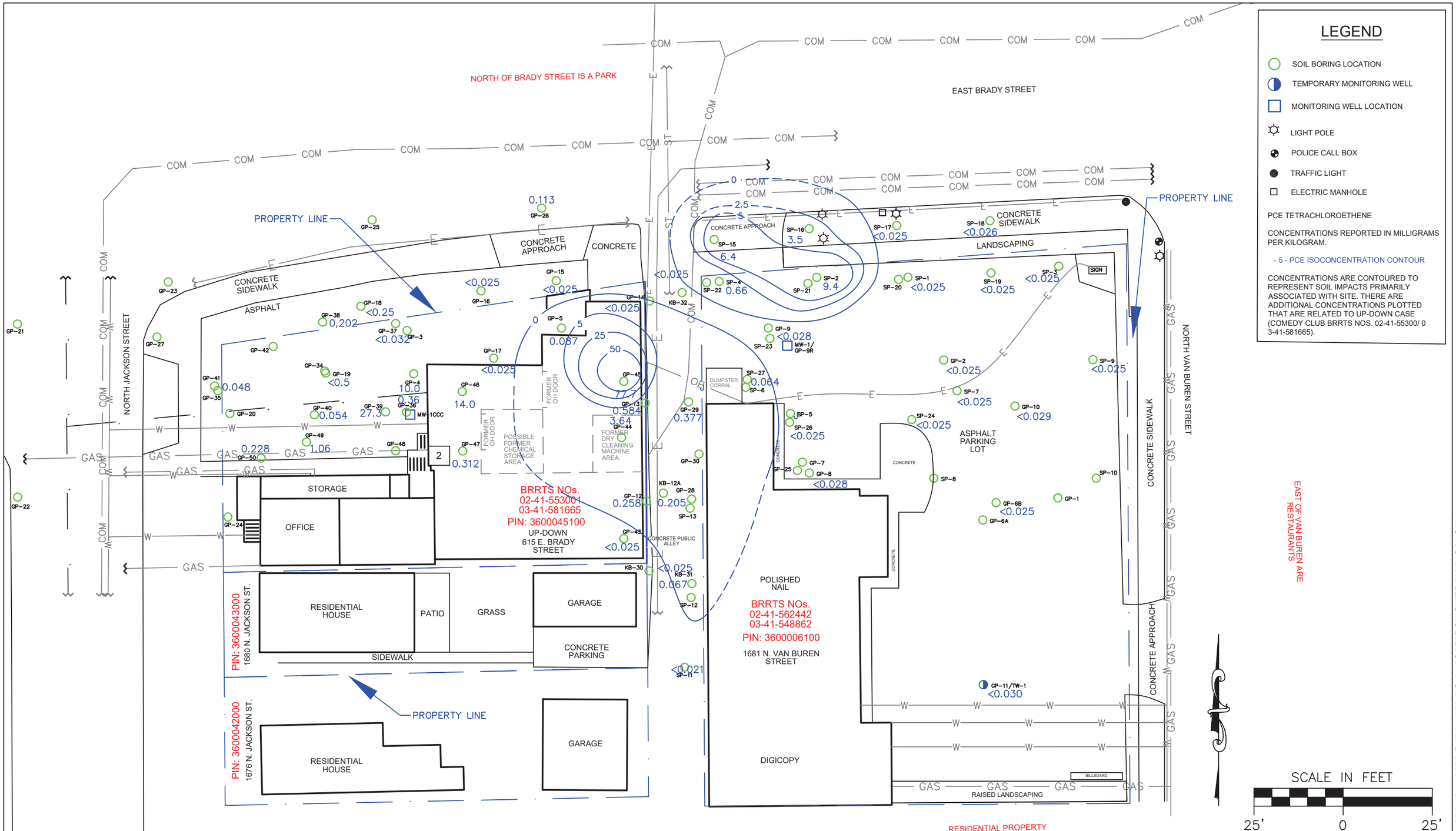
OLW/JMD	1604–1011–0002
APPROVED BY	SHEET NO.
TLS	

FIGURE 5
GEOLOGIC CROSS SECTION B-B'
1681 NORTH VAN BUREN STREET
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)



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JMD	1604–1011–0002
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FIGURE 6
SOIL PCE ISOCONCENTRATION MAP, 0 TO 4 FEET
1681 NORTH VAN BUREN STREET
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

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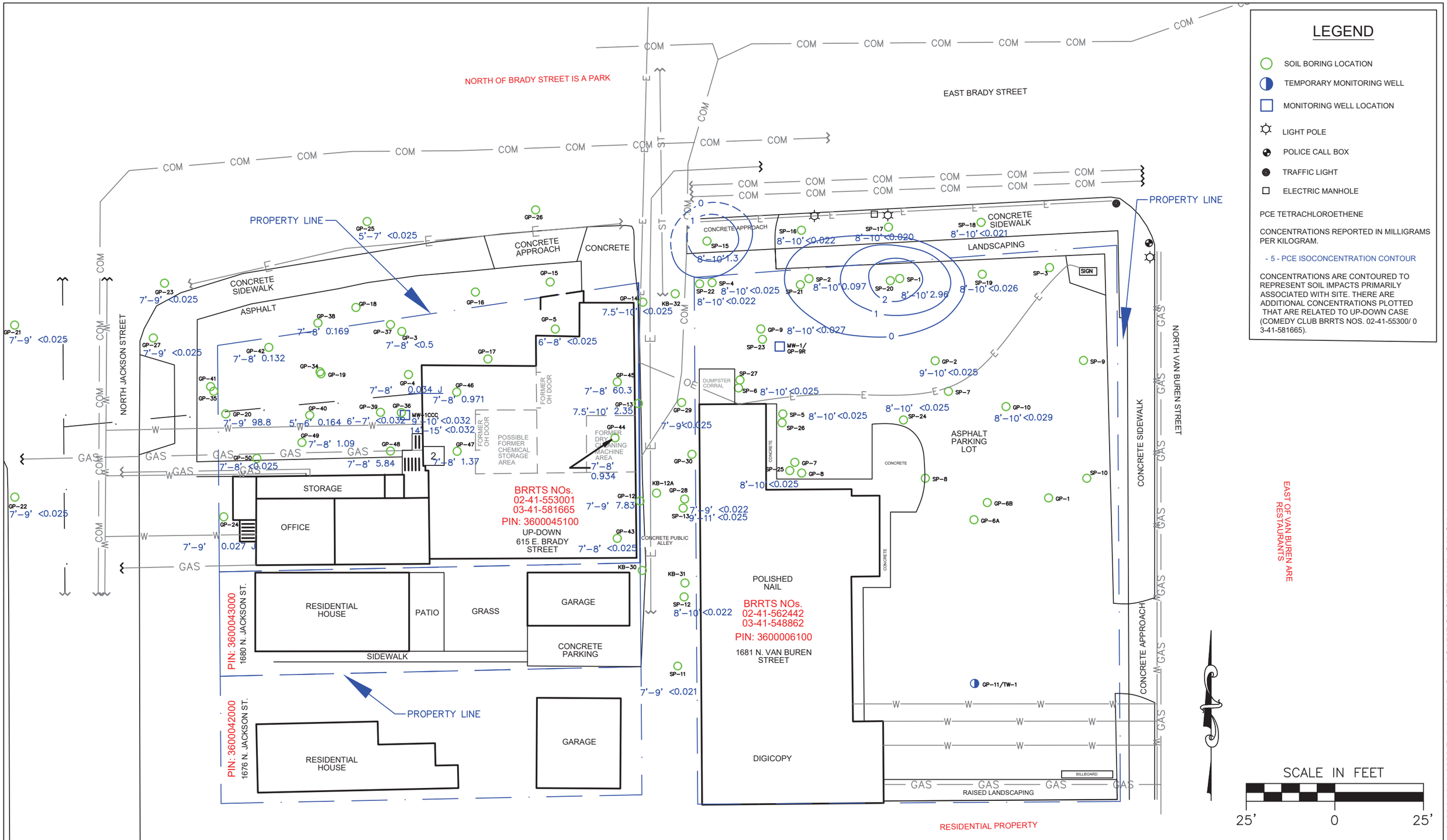

DESIGNED BY	DATE
TLS	08/16/2019
DRAWN BY	PROJECT
JMD	1604–1011–0002
APPROVED BY	SHEET NO.
TLS	

FIGURE 7
SOIL PCE ISOCONCENTRATION MAP, 5 TO 10 FEET
1681 NORTH VAN BUREN STREET
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

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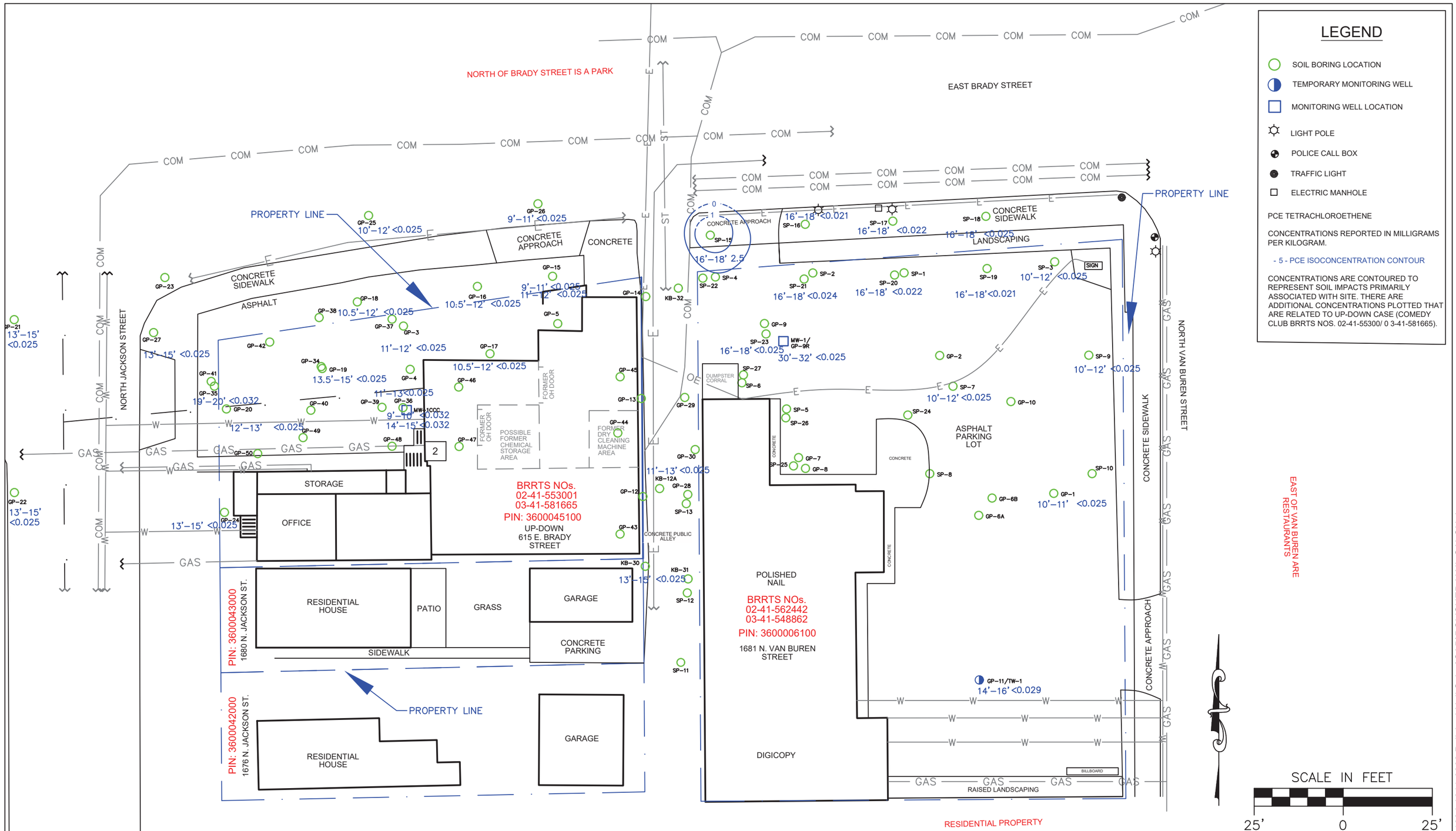

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DRAWN BY: JMD	PROJECT: 1604–1011–0002
APPROVED BY: TLS	SHEET NO.

FIGURE 8
SOIL PCE ISOCONCENTRATION MAP, 11 TO 32 FEET
1681 NORTH VAN BUREN STREET
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

F:\Work in Progress\1604-1011-0002 Polished Nail Salon\CAD\POLISHED NAIL SALON.dwg

LEGEND

- SOIL BORING LOCATION
- TEMPORARY MONITORING WELL
- MONITORING WELL LOCATION
- LIGHT POLE
- POLICE CALL BOX
- TRAFFIC LIGHT
- ELECTRIC MANHOLE
- B - BENZENE
- J - ANALYTE DETECTED BETWEEN LIMIT OF DETECTION AND LIMIT OF QUANTITATION
- ND - NOT DETECTED
- µg/l - MICROGRAMS PER LITER
- VOCs - VOLATILE ORGANIC COMPOUNDS

THERE ARE NO NR140 WIS. ADMIN. CODE PREVENTATIVE ACTION LIMIT EXCEEDANCES IN GROUNDWATER

INFERRED GROUNDWATER FLOW DIRECTION

NORTH OF BRADY STREET IS A PARK

EAST BRADY STREET

NORTH JACKSON STREET

NORTH VAN BUREN STREET

PROPERTY LINE

CONCRETE SIDEWALK

CONCRETE APPROACH

CONCRETE

ASPHALT

LANDSCAPING

SIGN

DUMPSTER CORRAL

FORMER OH DOOR

POSSIBLE FORMER CHEMICAL STORAGE AREA

FORMER DRY CLEANING MACHINE AREA

ASPHALT PARKING LOT

STORAGE

OFFICE

BRRTS NOs.
02-41-553001
03-41-581665
PIN: 3600045100
UP-DOWN
615 E. BRADY STREET

CONCRETE PUBLIC ALLEY

RESIDENTIAL HOUSE

PATIO

GRASS

GARAGE

CONCRETE PARKING

SIDEWALK

PIN: 3600043000
1680 N. JACKSON ST.

PIN: 3600042000
1676 N. JACKSON ST.

RESIDENTIAL HOUSE

GARAGE

POLISHED NAIL

BRRTS NOs.
02-41-562442
03-41-548862
PIN: 3600006100

1681 N. VAN BUREN STREET

DIGICOPY

CONCRETE APPROACH

CONCRETE SIDEWALK

RAISED LANDSCAPING

BILLBOARD

EAST OF VAN BUREN ARE RESTAURANTS

RESIDENTIAL PROPERTY

MW-1
6/22/06 B 0.20J
11/1/06 B <0.47
MW-1/ GP-9R

MW-11CCC

GP-11/TW-1
5/10/06
VOCs ND

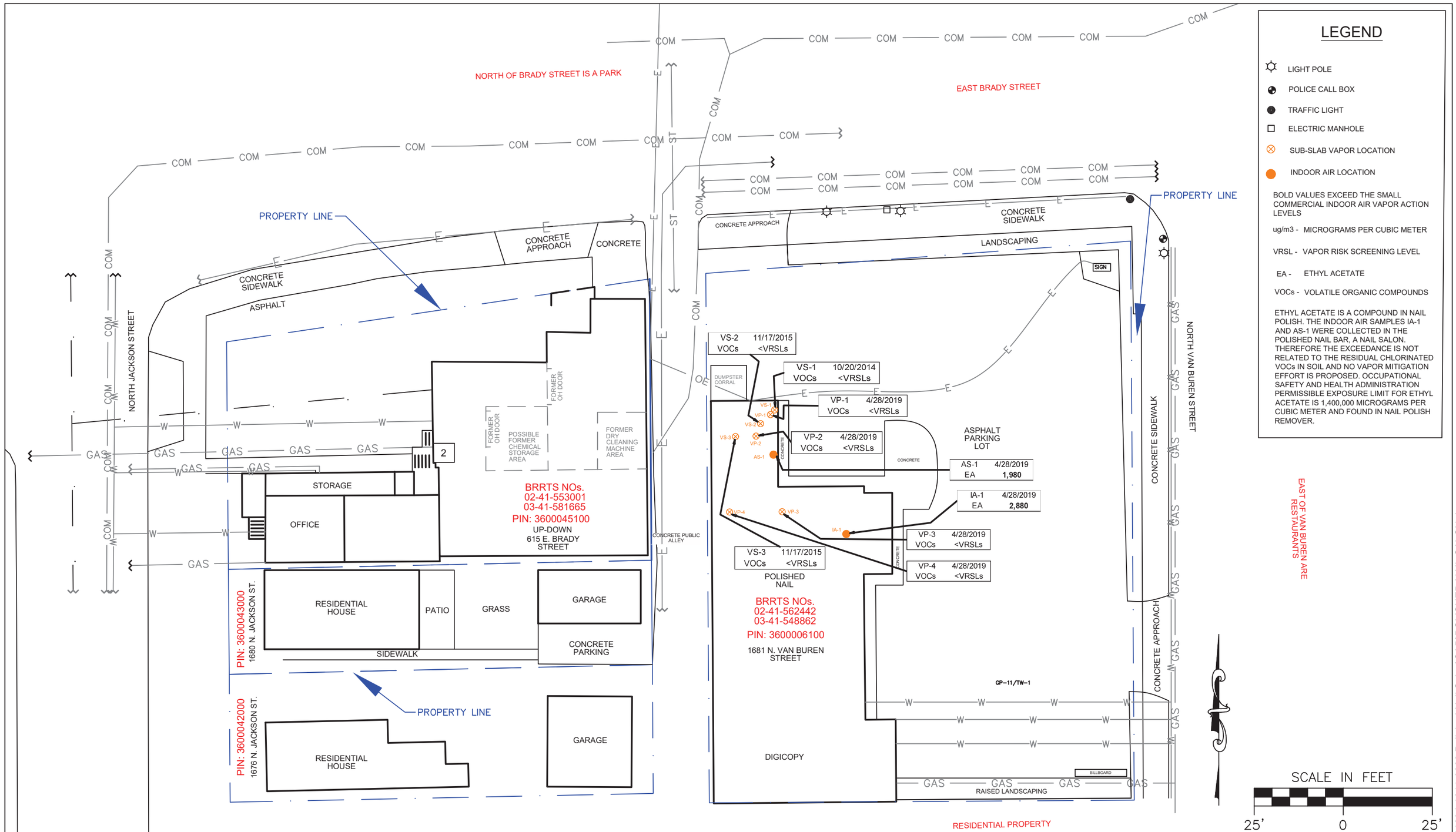
SCALE IN FEET
25' 0 25'

DESIGNED BY	DATE
TLS	08/16/2019
DRAWN BY	PROJECT
JMD	1604-1011-0002
APPROVED BY	SHEET NO.
TLS	

FIGURE 9
GROUNDWATER ANALYTICAL RESULTS
1681 NORTH VAN BUREN STREET
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

F:\Work in Progress\1604-1011-0002 Polished Nail Salon\CAD\POLISHED NAIL SALON.dwg



LEGEND

- LIGHT POLE
- POLICE CALL BOX
- TRAFFIC LIGHT
- ELECTRIC MANHOLE
- SUB-SLAB VAPOR LOCATION
- INDOOR AIR LOCATION

BOLD VALUES EXCEED THE SMALL COMMERCIAL INDOOR AIR VAPOR ACTION LEVELS

ug/m3 - MICROGRAMS PER CUBIC METER

VRSL - VAPOR RISK SCREENING LEVEL

EA - ETHYL ACETATE

VOCs - VOLATILE ORGANIC COMPOUNDS

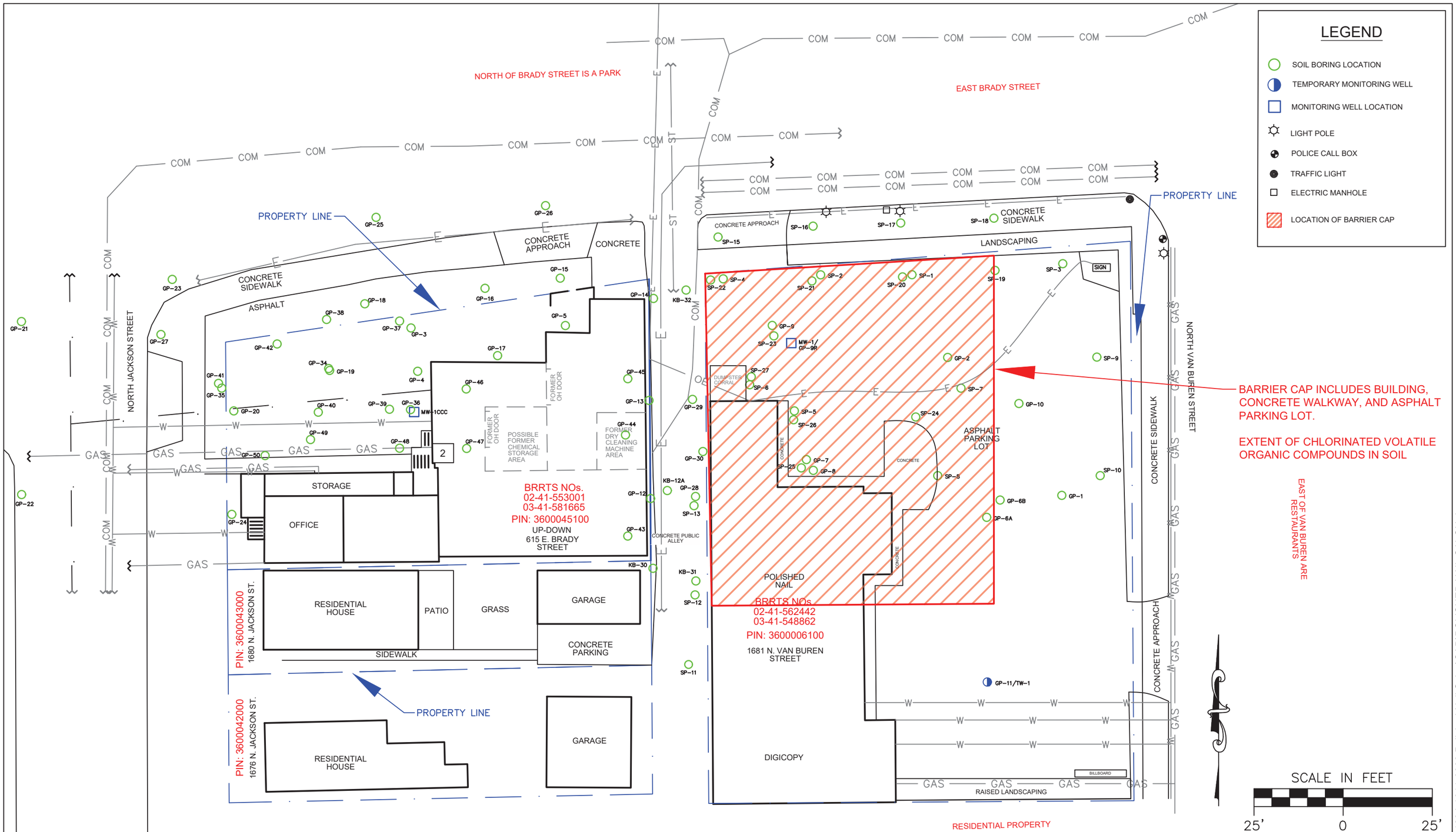
ETHYL ACETATE IS A COMPOUND IN NAIL POLISH. THE INDOOR AIR SAMPLES IA-1 AND AS-1 WERE COLLECTED IN THE POLISHED NAIL BAR, A NAIL SALON. THEREFORE THE EXCEEDANCE IS NOT RELATED TO THE RESIDUAL CHLORINATED VOCs IN SOIL AND NO VAPOR MITIGATION EFFORT IS PROPOSED. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION PERMISSIBLE EXPOSURE LIMIT FOR ETHYL ACETATE IS 1,400,000 MICROGRAMS PER CUBIC METER AND FOUND IN NAIL POLISH REMOVER.

DESIGNED BY: TLS	DATE: 08/16/2019
DRAWN BY: JMD	PROJECT: 1604–1011–0002
APPROVED BY: TLS	SHEET NO.

FIGURE 10
VAPOR ANALYTICAL RESULTS
1681 NORTH VAN BUREN STREET
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

F:\Work in Progress\1604-1011-0002 Polished Nail Salon\CAD\POLISHED NAIL SALON.dwg



DESIGNED BY: TLS	DATE: 08/16/2019
DRAWN BY: JMD	PROJECT: 1604–1011–0002
APPROVED BY: TLS	SHEET NO.

FIGURE 11
LOCATION OF BARRIER CAP
1681 NORTH VAN BUREN STREET
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

F:\Work in Progress\1604-1011-0002 Polished Nail Salon\CAD\POLISHED NAIL SALON.dwg

Appendix 1

DOC.# 10455800

RECORDED
04/28/2015 02:16PM

JOHN LA FAVE
REGISTER OF DEEDS
Milwaukee County, WI
AMOUNT: $30.00
TRANSFER FEE: $3,780.00
FEE EXEMPT #: 0
0
***This document has been electronically recorded and returned to the submitter. **

STATE BAR OF WISCONSIN FORM 3 – 2000

QUIT CLAIM DEED

Document Number

This Deed, made between RR 101, LLC, a Wisconsin limited liability company Grantor, and TR Partners LLC, a Wisconsin limited liability company Grantee.

Grantor quit claims to Grantee the following described real estate in Milwaukee County, State of Wisconsin (if more space is needed, please attach addendum):

All of Lots Three (3), Four (4) and Five (5) and that part of Lot Two (2) in Block Lettered "B" in HATHAWAY'S SUBDIVISION, in the Southwest One-quarter (1/4) of Section Twenty-one (21), in Township Seven (7) North, Range Twenty-two (22) East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin, bounded and described as follows: Commencing at a point in the East line and 2.58 feet South of the Northeast corner of Lot 2; thence South on and along the East line of said Lot 2, 37.42 feet to the Southeast corner of said Lot 2; thence West on and along the South line of said Lot 2, 120 feet to the Southwest corner of said Lot 2; thence North on and along the West line of said Lot 2, 31.15 feet to a point; thence Northeasterly on a line 120.16 feet, more or less, to the point of commencement.

Recording Area

Name and Return Address
TR Partners LLC
Attn: Randall Roth
770 N. Milwaukee Street
Milwaukee, WI 53202

360-0006-100-4
Parcel Identification Number (PIN)
This is not homestead property.

Together with all appurtenant rights, title and interests.

Dated this 24th day of April, 2015.

RR 101, LLC

*

*By Randall Roth, Sole Member

*

*

AUTHENTICATION

Signature(s) _____ authenticated this _____ day of _____, _____.

*

TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, _____ authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Ryan H. Wolter, Esq.

(Signatures may be authenticated or acknowledged. Both are not necessary.)

ACKNOWLEDGMENT

STATE OF Wisconsin)
) ss.
Milwaukee County)

2015 Personally came before me this 24 day of April, the above named Randall Roth to me known to be the person who executed the foregoing instrument and acknowledged the same.

*Kelly A. Krueck
Notary Public, State of Wisconsin
My Commission is permanent. (If not, state expiration date: April 26, 2019.)

*Names of persons signing in any capacity must be typed or printed below their signature.

Appendix 2

GIS REGISTRY INFORMATION

MAY 30 2008

SITE NAME: Former Giovanni's

BRRTS #: 02-41-548862 FID # (if appropriate): 341143220

COMMERCE # (if appropriate): 53202-2017-83A

CLOSURE DATE: January 31, 2008

STREET ADDRESS: 1683 Van Buren St

CITY: Milwaukee 53202

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 690720 Y= 288795

CONTAMINATED MEDIA: Groundwater [ ] Soil [X] Both [ ]

OFF-SOURCE GW CONTAMINATION >ES: [ ] Yes [X] No

IF YES, STREET ADDRESS 1: _____

GPS COORDINATES (meters in WTM91 projection): X= _____ Y= _____

OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL): [ ] Yes [X] No

IF YES, STREET ADDRESS 1: _____

GPS COORDINATES (meters in WTM91 projection): X= _____ Y= _____

CONTAMINATION IN RIGHT OF WAY: [ ] Yes [X] No

DOCUMENTS NEEDED:

Closure Letter, and any conditional closure letter or denial letter issued	X
Copy of any maintenance plan referenced in the final closure letter.	X
Copy of (soil or land use) deed notice *if any required as a condition of closure*	NA
Copy of most recent deed, including legal description, for all affected properties	X
Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties	X
County Parcel ID number, *if used for county*, for all affected properties 360-006-1000-4	X
Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.	X
Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.	X
Tables of Latest **Groundwater Analytical Results (no shading or cross-hatching)**	NA
Tables of Latest **Soil Analytical Results (no shading or cross-hatching)**	X
Isoconcentration map(s), *if required for site investigation (SI)* (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. **If not available, include the latest extent of contaminant plume map.**	NA
GW: Table of water level elevations, with sampling dates, and free product noted if present	NA
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)	NA
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour	X meet
Geologic cross-sections, ***if required for SI.*** (8.5x14' if paper copy)	NA
RP certified statement that legal descriptions are complete and accurate	X
Copies of off-source notification letters (if applicable)	NA
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)	NA

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-3128
FAX 414-263-8606
Telephone 414-263-8500
TTY Access via relay - 711

January 31, 2008

Mr. Randy Roth
Endeavour Project Development
770 North Milwaukee Street
Milwaukee, WI 53244

Subject: Final Case Closure and NR 140 Exemption for the Former Giovanni's Property, 1683 North Van Buren Street, Milwaukee, WI

FID: 341143220
BRRTS: 03-41-548862
PECFA: 53202-2017-83

Dear Mr. Roth:

On January 25, 2008, the Department of Natural Resources ("the Department") reviewed your request for closure of the case described above. The Department reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. On September 19, 2007, Key Engineering submitted a request for case closure for the above named site.

Based on the correspondence and data provided, it appears that your case meets the requirements of ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.

GIS Registry

The conditions of case closure set out below in this letter require that your site be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- If a structural impediment that obstructs a complete site investigation or cleanup is removed or modified, additional environmental work must be completed
- Pavement, an engineered cover or a soil barrier must be maintained over contaminated soil and the state must approve any changes to this barrier

Information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at: http://dnr.wi.gov/org/aw/rr/gis/index.htm. If your property is listed on the GIS Registry because of

remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4)(w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line http://dnr.wi.gov/org/water/dwg/3300254.pdf or at the web address listed above for the GIS Registry.

Closure Conditions

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which you or the current property owner and any subsequent property owners must adhere. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. It is the Department's intent to conduct inspections in the future to ensure that the conditions included in this letter including compliance with referenced maintenance plans are met.

Remaining Residual Soil Contamination

Residual soil contamination remains at the locations indicated on the enclosed Figure 4, and associated data from Tables 1 and Table 1 (continued) as information submitted to the Department of Natural Resources. If soil in the specific locations described above is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Structural Impediments

Structural impediments existing at the time of cleanup, the onsite building, made complete investigation and remediation of the soil contamination on this property impracticable. Pursuant to s. 292.12(2)(b), Wis. Stats., if the structural impediments on this property that are described above are removed, the property owner shall conduct an investigation of the degree and extent of petroleum contamination. . If contamination is found at that time, the Wisconsin Department of Natural Resources shall be immediately notified and the contamination shall be properly remediated in accordance with applicable statutes and rules. If soil in the specific locations described above is excavated, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

Cover or Barrier

Pursuant to s. 292.12(2)(a), Wis. Stats., the asphaltic concrete pavement and Portland cement concrete sidewalk areas that currently exists in the location shown on the attached map shall be maintained in compliance with the attached maintenance plan in order to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

The attached maintenance plan and inspection log are to be kept up-to-date and on-site, and the inspection log need only be submitted to the Department upon request.

Prohibited Activities

The following activities are prohibited on any portion of the property where [pavement, a building foundation, soil cover, engineered cap or other barrier] is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

Vapor Migration

In addition, depending on site-specific conditions, construction over contaminated materials may result in vapor migration into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Chapter NR 140, Wis. Adm. Code Exemption

Recent groundwater monitoring data at this site indicates exceedances of the ch. NR 140, Wis. Adm. Code, preventative action limit, for benzo(b)flouranthene at groundwater monitoring well MW-1 (see Figure 4). The Department may grant an exemption for a substance of public welfare concern, or nitrate, pursuant to s. NR 140.28(3)(a), Wis. Adm. Code, if actions have been taken to achieve the lowest possible concentration for that substance which is technically and economically feasible and the existing or anticipated increase in the concentration of that substance does not present a threat to public health or welfare.

Based on the information you provided, the Department believes that the above criteria have been or will be met because of the soil excavation and depth of the groundwater at this location (40 feet bgs). Therefore, pursuant to s. NR 140.28(3)(a), Wis. Adm. Code, an exemption to the preventative action limit for benzo(b)flouranthene at MW-1, This letter serves as your exemption.

Section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If there is equipment purchased with PECFA funds remaining at the site, contact the Commerce PECFA Program to determine the method for salvaging the equipment.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

The Department appreciates the actions you have taken to investigate and remediate the contamination at this site. If you have any questions or comments, please feel free to contact me at the above address or at (414) 263-8644. Please refer to the FID number at the top of this letter in any future correspondence. Future correspondence should be sent directly to the Remediation and Redevelopment Program Assistant Vicky Stovall (414-263-8688) at the above address.

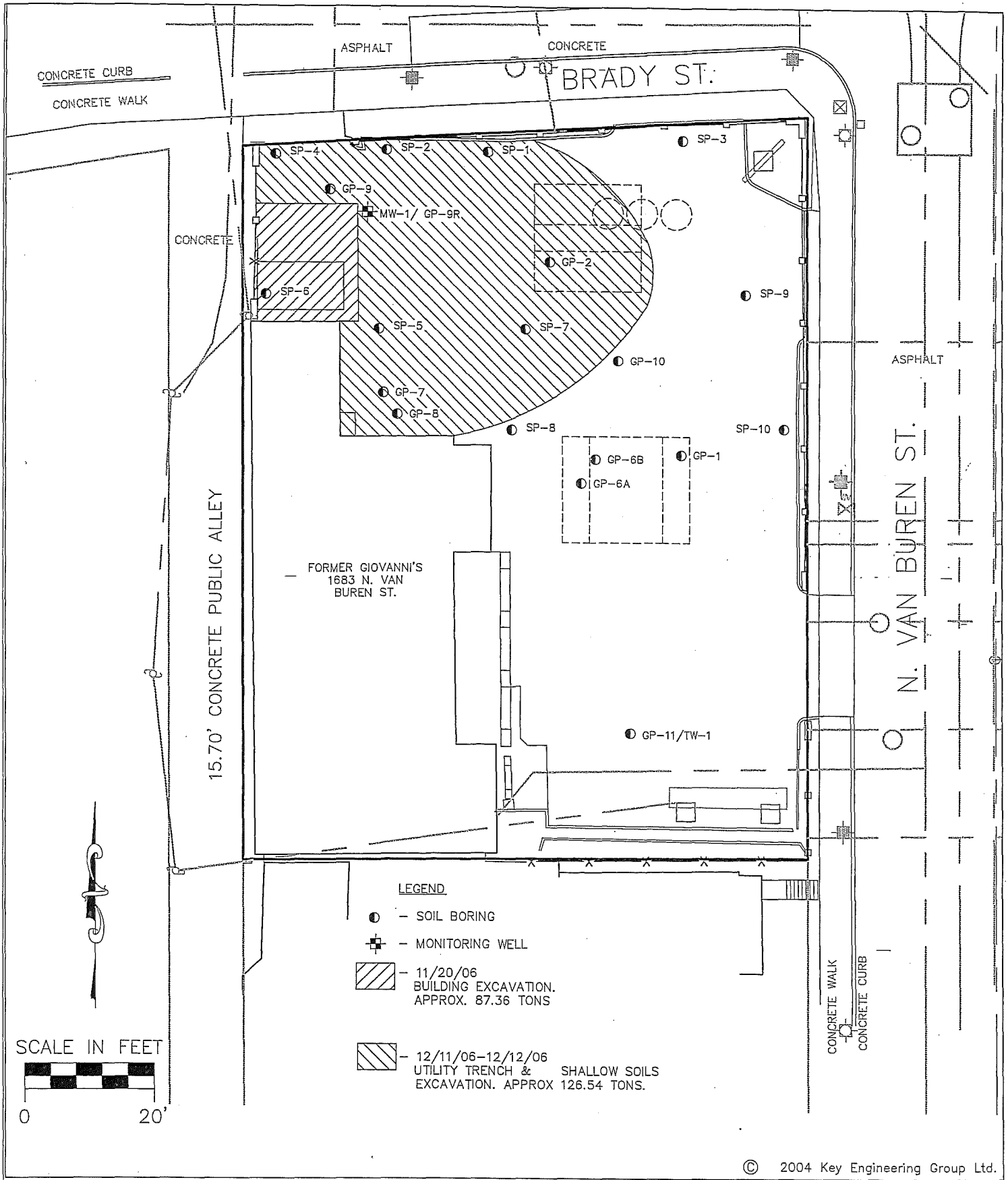
Sincerely,

James A. Schmidt

James A. Schmidt
Remediation and Redevelopment Team Supervisor
Southeast Region

Enclosures: Figure 4, Soil Excavation Areas, Key Environmental
Table 1, Summary of Soil Sample Analytical Results
Table 1 (continued), Summary of Soil Sample Analytical Results
Cap Maintenance Plan, 7 pages

C: Michael Treazise, Key Engineering
WDNR SER Files



DESIGNED BY MRT	DATE 3/26/07
DRAWN BY AMF	PROJECT 1603009
APPROVED BY MRT	SHEET NO. 1
CADFILE G:\ACAD\1603009\FIGURE 2.dwg XREF G:\ACAD\1603009\FIGURE 2.dwg LMAN	

FIGURE 4
SOIL EXCAVATION AREAS
FORMER GIOVANNI'S
1683 N. VAN BUREN ST.
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
ENVIRONMENTAL • CIVIL • RAILROAD
735 N. WATER STREET, SUITE 1000 - MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Sep 04, 2007 – 2:52pm G:\ACAD\1603009\FIGURE 2.dwg

TABLE 1

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

FORMER GIOVANNI'S
1683 North Van Buren Street
Milwaukee, Wisconsin

	SAMPLE IDENTIFICATION														GENERIC RCLs	
PARAMETERS	GP-1	GP-2		GP-6B	GP-7	GP-8	GP-9		GP-9R	GP-10		GP-11		Pile [3]	PROTECTION OF GROUNDWATER	DIRECT CONTACT (NON-INDUSTRIAL)
Date Collected	11/7/05	11/7/05	11/7/05	11/7/05	11/7/05	5/10/06	5/10/06	5/10/06	6/15/06	5/10/06	5/10/06	5/10/06	5/10/06	11/9/06	---	---
Depth (feet bgs)	10-11	3-4	9-10	3-4	3-4	3-4	2-4	8-10	30-32	2-4	8-10	2-4	14-16		---	---
Bulk Dry Density (lbs/ft^3)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GRO	---	---	---	---	---	---	---	---	---	---	---	---	---	9.0		
TPH DRO	---	---	---	---	---	---	---	---	---	---	---	---	---	410		
Detected VOCs (µg/kg)																
Benzene	<25	39	<25	<25	<25	<28	<28	180	<25	<29	<29	<30	<29	<150	5.5 (1)	---
sec-Butylbenzene	<25	117	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
tert-Butylbenzene	<25	430	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
cis-1,2-Dichloroethene	<25	<25	<25	<25	<25	<28	460	300	<25	<29	<29	<30	<29	320	---	---
trans-1,2-Dichloroethene	<25	<25	<25	<25	<25	<28	470	<27	<25	<29	<29	<30	<29	<150	---	---
Ethylbenzene	<25	2,550	<25	<25	<25	<28	<28	310	<25	<29	<29	<30	<29	<150	2,900 (1)	---
Isopropylbenzene	<25	284	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
p-Isopropyltoluene	<25	57	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
Naphthalene	<25	1,100	<25	<25	<25	<55	<56	<54	<25	<58	230	<59	<59	<300	---	---
n-Propylbenzene	<25	1,090	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
Tetrachloroethene	<25	<25	<25	<25	51 J	<28	<28	<27	<25	<29	<29	<30	<29	13,000	---	---
Toluene	<25	170	<25	<25	<25	<28	<28	140	<25	<29	<29	<30	<29	<150	1,500 (1)	---
Trichloroethene	<25	<25	<25	<25	<25	<28	110	490	<25	<29	<29	<30	<29	1,500	---	---
1,2,4-Trimethylbenzene	<25	5,200	29 J	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
1,3,5-Trimethylbenzene	<25	1,120	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
Vinyl Chloride	<25	<25	<25	<25	<25	<39	<39	82	<25	<29	<29	<30	<29	<210	---	---
Xylenes	<75	5,300	<75	<75	<75	<94	<96	150	<25	<41	<41	<41	<29	<510	4,100 (1)	---
Detected PAHs (µg/kg)																
Acenaphthene	<17	357 J	<17	<17	441	---	<56	<54	<17	<58	<59	<59	<59		38,000 (2)	900,000 (2)
Anthracene	<11	678	<11	<11	1,830	---	87	<5.4	<11	12	<5.9	<5.9	9.9		3,000,000 (2)	5,000,000 (2)
Benzo(a)anthracene	<12	920	<12	<12	3,650	---	410	<5.4	22 J	36	16	<5.9	15		17,000 (2)	88 (2)
Benzo(a)pyrene	<8.1	539	<8.1	<8.1	3,160	---	430	<5.4	13 J	37	15	<5.9	8.2		48,000 (2)	8.8 (2)
Benzo(b)fluoranthene	<7.5	1,170	<7.5	<7.5	4,230	---	310	<5.4	15 J	35	15	<5.9	8.5		360,000 (2)	88 (2)
Benzo(g,h,i)perylene	<8.5	433	<8.5	<8.5	1,780	---	250	<5.4	14 J	18	17	<5.9	6.6		6,800,000 (2)	1,800 (2)
Benzo(k)fluoranthene	<14	513	<14	<14	1,180	---	220	<5.4	<14	21	10	<5.9	<5.9		870,000 (2)	880 (2)
Chrysene	<20	1,140	<20	<20	2,450	---	370	<5.4	<20	37	16	<5.9	12		37,000 (2)	8,800 (2)
Dibenzo(a,h)anthracene	<11	<110	<11	<11	245	---	60	<8.1	<11	<8.8	<8.8	<8.9	<8.8		38,000 (2)	8.8 (2)
Fluoranthene	<7.4	3,020	<7.4	<7.4	7,780	---	650	30	24	130	50	16	68		500,000 (2)	600,000 (2)
Fluorene	<9.5	408	<9.5	<9.5	386	---	19	<11	<9.5	<12	<12	<12	<12		100,000 (2)	600,000 (2)
Indeno(1,2,3-cd)pyrene	<9.5	300	<9.5	<9.5	1,250	---	290	<5.4	<9.5	31	14	<5.9	<5.9		680,000 (2)	88 (2)
1-methyl naphthalene	<11	4,850	<11	<11	<55	---	<34	<32	<11	<35	<35	<35	<35		23,000 (2)	1,100,000 (2)
2-methyl naphthalene	<12	10,500	<12	<12	<60	---	120	<27	<12	43	<19	<30	<29		20,000 (2)	600,000 (2)
Naphthalene	<17	15,300	<17	<17	<85	---	<34	<32	<17	<35	<35	<35	<35		400 (2)	20,000 (2)
Phenanthrene	<8.9	1,890	<8.9	<8.9	4,110	---	230	23	23 J	110	37	12	86		1,800 (2)	18,000 (2)
Pyrene	<11	2,470	<11	<11	6,080	---	490	<5.4	24 J	85	32	10	28		8,700,000 (2)	500,000 (2)

Notes:

Bold concentrations exceed NR 746 Table 1 values or generic RCL for non-industrial direct contact
Boxed concentrations exceed generic RCL for protection of groundwater
--- - not analyzed or no standard established
(1) - NR 720 generic RCLS
(2) - Suggested generic RCLs PAHs Interim Guidance (WDNR), Publication RR-519-97, April 1997 corrected).
(3) - A sample was collected from soil excavated from the northwest corner of the parking lot.
(4) - This boring was discontinued after 1.5 feet, due to contact with a solid surface. The boring was subsequently abandoned.
bgs - below ground surface
J - analyte detected between limit of detection and limit of quantitation
lbs/ft^3 - pounds per cubic foot
PAHs - polynuclear aromatic hydrocarbons
RCL - residual contaminant level
µg/kg - micrograms per kilogram
VOCs - volatile organic compounds

TABLE 1 (CONTINUED)

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

FORMER GIOVANNI'S
1683 North Van Buren Street
Milwaukee, Wisconsin

PARAMETERS	SP-1		SP-2		SP-3		SP-4		SP-5		SP-6		SP-7		SP-8		SP-9		SP-10		GENERIC RCLs	
																					PROTECTION OF GROUNDWATER	DIRECT CONTACT (NON-INDUSTRIAL)
Date Collected	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06		
Depth (feet bgs)	2-4	8-10	2-4	8-10	2-4	10-12	2-4	8-10	2-4	8-10	2-4	8-10	2-4	10-12	2-4	8-10	2-4	10-12	2-4	8-10	---	---
Bulk Dry Density (lbs/ft^3)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Detected VOCs (µg/kg)																						
Benzene	550	107	<25	<25	<25	<25	<25	<25	<125	221	<25	<25	<25	<25	---	---	<25	<25	---	---	5.5 (1)	---
sec-Butylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<125	25.6 J	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
tert-Butylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
cis-1,2-Dichloroethene	<25	283	43 J	<25	<25	<25	87	58 J	<125	<25	35 J	<25	<25	<25	---	---	<25	<25	---	---	---	---
trans-1,2-Dichloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
Ethylbenzene	1,270	<25	<25	<25	<25	<25	<25	<25	<125	5,900	<25	<25	<25	<25	---	---	<25	<25	---	---	2,900 (1)	---
Isopropylbenzene	50 J	<25	<25	<25	<25	<25	<25	<25	<125	730	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
p-Isopropyltoluene	196	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
Naphthalene	600	<25	47 J	<25	<25	63	<25	<25	<125	580	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
n-Propylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<125	1,630	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
Tetrachloroethene	<25	2,960	9,400	97	<25	<25	660	<25	16,900	<25	4,000	<25	<25	<25	---	---	<25	<25	---	---	---	---
Toluene	26.8 J	<25	<25	88	<25	<25	<25	<25	<125	168	<25	<25	<25	<25	---	---	<25	<25	---	---	1,500 (1)	---
Trichloroethene	<25	1,090	400	<25	<25	<25	308	87	<125	<25	110	<25	<25	<25	---	---	<25	<25	---	---	---	---
1,2,4-Trimethylbenzene	156	<25	25.9 J	<25	<25	<25	<25	<25	<125	3,300	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
1,3,5-Trimethylbenzene	25.5 J	<25	<25	<25	<25	<25	<25	<25	<125	380	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
Vinyl Chloride	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
Xylenes	548 J	<75	<75	57 J	<75	<75	<75	<75	<375	2,590	<75	<75	<75	<75	---	---	<75	<75	---	---	4,100 (1)	---
Detected PAHs (µg/kg)																						
Acenaphthene	499	<17	<17	<17	<17	30 J	<17	<17	44 J	<17	<17	<17	<17	<17	<17	29 J	<17	<17	<17	<17	38,000 (2)	900,000 (2)
Acenaphthylene	<19	<19	<19	<19	<19	<19	<19	<19	82	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19		
Anthracene	441	11 J	11 J	<11	<11	100	<11	<11	116	<11	16 J	<11	<11	<11	<11	46	17 J	<11	<11	35	3,000,000 (2)	5,000,000 (2)
Benzo(a)anthracene	532	18 J	44	<12	40	291	34 J	20 J	598	<12	62	<12	<12	<12	<12	63	74	<12	<12	65	17,000 (2)	88 (2)
Benzo(a)pyrene	690	10 J	52	<8.1	47	325	31	15 J	935	<8.1	87	<8.1	<8.1	<8.1	<8.1	60	97	<8.1	<8.1	83	48,000 (2)	8.8 (2)
Benzo(b)fluoranthene	920	14 J	72	<7.5	64	518	49	31	1,530	18 J	158	8.5 J	<7.5	<7.5	7.9 J	128	150	<7.5	15 J	172	360,000 (2)	88 (2)
Benzo(g,h,i)perylene	560	20 J	110	<8.5	29	288	30	20 J	1,090	18 J	98	<8.5	<8.5	<8.5	<8.5	58	80	<8.5	<8.5	76	6,800,000 (2)	1,800 (2)
Benzo(k)fluoranthene	303	<14	26 J	<14	24 J	176	21 J	<14	554	<14	51	<14	<14	<14	<14	32 J	47	<14	<14	59	870,000 (2)	880 (2)
Chrysene	739	21 J	55 J	<20	50 J	401	43 J	34 J	907	21 J	107	<20	<20	<20	<20	152	123	<20	<20	158	37,000 (2)	8,800 (2)
Dibenzo(a,h)anthracene	119	<11	21 J	<11	<11	60	<11	<11	181	<11	<11	<11	<11	<11	<11	<11	12 J	<11	<11	19 J	38,000 (2)	8.8 (2)
Fluoranthene	1,700	49	103	<7.4	98	877	79	84	1,450	26	167	17 J	8.1 J	<7.4	17 J	469	244	8.3 J	18 J	377	500,000 (2)	600,000 (2)
Fluorene	358	<9.5	<9.5	<9.5	<9.5	30 J	<9.5	<9.5	30 J	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	34	<9.5	<9.5	<9.5	18 J	100,000 (2)	600,000 (2)
Indeno(1,2,3-cd)pyrene	389	13 J	52	<9.5	20 J	245	20 J	13 J	606	<9.5	63	<9.5	<9.5	<9.5	<9.5	35	46	<9.5	<9.5	53	680,000 (2)	88 (2)
1-methyl naphthalene	669	<11	<11	<11	<11	12 J	<11	<11	14 J	<11	<11	<11	<11	<11	<11	43	<11	<11	<11	<11	23,000 (2)	1,100,000 (2)
2-methyl naphthalene	703	<12	<12	<12	<12	<12	<12	<12	14 J	<12	<12	<12	<12	<12	<12	68	<12	<12	<12	<12	20,000 (2)	600,000 (2)
Naphthalene	2,960	<17	<17	<17	<17	<17	<17	<17	<17	372	<17	<17	<17	<17	<17	24 J	<17	<17	<17	<17	400 (2)	20,000 (2)
Phenanthrene	1,680	60	52	22 J	43	470	43	66	232	31	72	22 J	9.0 J	11 J	18 J	430	139	9.1 J	11 J	252	1,800 (2)	18,000 (2)
Pyrene	1,590	41	87	<11	92	684	68	61	1,140	20 J	131	14 J	<11	<11	12 J	303	214	<11	14 J	259	8,700,000 (2)	500,000 (2)

Notes:

Bold concentrations exceed NR 746 Table 1 values or generic RCL for non-industrial direct contact
Boxed concentrations exceed generic RCL for protection of groundwater
--- - not analyzed or no standard established
(1) - NR 720 generic RCLS
(2) - Suggested generic RCLs PAHs Interim Guidance (WDNR), Publication RR-519-97, April 1997 corrected).
bgs - below ground surface
J - analyte detected between limit of detection and limit of quantitation
lbs/ft^3 - pounds per cubic foot
PAHs - polynuclear aromatic hydrocarbons
RCL - residual contaminant level
µg/kg - micrograms per kilogram
VOCs - volatile organic compounds

CAP MAINTENANCE PLAN

Former Giovanni's
1683 North Van Buren Street
Milwaukee, Wisconsin
BRRTS #: 03-41-548862
FID #: 341143220

This *Cap Maintenance Plan* shall be applicable to the parcel of Property depicted on the site location map included as Figure 1, and depicted on the site layout map included as Figure 2, and a copy of this *Cap Maintenance Plan* shall be maintained on file in the offices of the owner of the Property, RR 101 LLC & EK 101 LLC or its successor(s) in interest (the "Owner"), and any company that is retained to manage the Property on behalf of the Owner (the "Property Manager").

The Cap on the Property includes the following: Asphaltic concrete pavement and Portland cement concrete sidewalk areas.

INSPECTION

Inspect paved and unpaved areas of the Property to ensure that the integrity of the cover in the unpaved areas is maintained and that no significant fissures or cracks develop in the paved areas. Inspections shall be semi-annual for the first two years, then annual thereafter.

Prepare a brief inspection report that documents the date of the inspection, the individual(s) conducting the inspection, any observed disturbance of the cover in the unpaved areas, and any significant cracking observed in the paved areas. A cap inspection form is included as Attachment 1. Maintain a copy of the inspection report, with a copy of this *Cap Maintenance Plan*, to be made available to representatives of the Wisconsin Department of Natural Resources (WDNR), upon reasonable request.

REPAIR CAPPED AREAS

If, during the annual inspection, the soil cover in unpaved areas is observed to have been disturbed or significant cracking is observed in paved areas, the Owner shall arrange to have repairs made to such areas, in a manner consistent with this *Cap Maintenance Plan*. Such repairs shall be carried out within six months. A cap maintenance log is included as Attachment 2 to document any maintenance or repairs of the paved and capped areas.

MODIFICATION TO CAPPED AREAS

The following steps shall be taken if Owner plans to remove, replace or repair pavement or perform activities that would penetrate below the Cap into the contaminated soils below the Cap (i.e., install or replace trees, shrubs, fencing, retaining walls or buildings):

1. The contractor performing the work shall be provided with a copy of this *Cap Maintenance Plan* and shall prepare a *Health and Safety Plan (HASP)*, to protect workers from exposure to contaminated soils.

2. Separate excavated material (or granular layer materials where they exist) so that they may be replaced upon completion of the work. Excavation into the contaminated soils beneath the Cap shall be conducted in accordance with the *HASP*, and any excavated contaminated soils shall be segregated and kept on site, in conformance with the requirements of Chapter NR 718, Wisconsin Administrative Code, until completion of the work.

- Upon completion of the work, place previously excavated contaminated soils back into the excavation, but only to the extent such replacement does not interfere with the replacement and maintenance of the Cap, and does not constitute a violation of Wisconsin hazardous waste management law (Chapter 291, Wisconsin Statutes).

- Any remaining contaminated soils that cannot be replaced in the excavation shall be properly characterized and disposed of at an appropriately licensed facility.

- Prepare a brief report documenting the work performed, identifying the person(s) performing the work, and verifying that this *Cap Maintenance Plan* was adhered to. Maintain report on file (to be made available to WDNR, upon reasonable request).

UTILITY REPAIRS

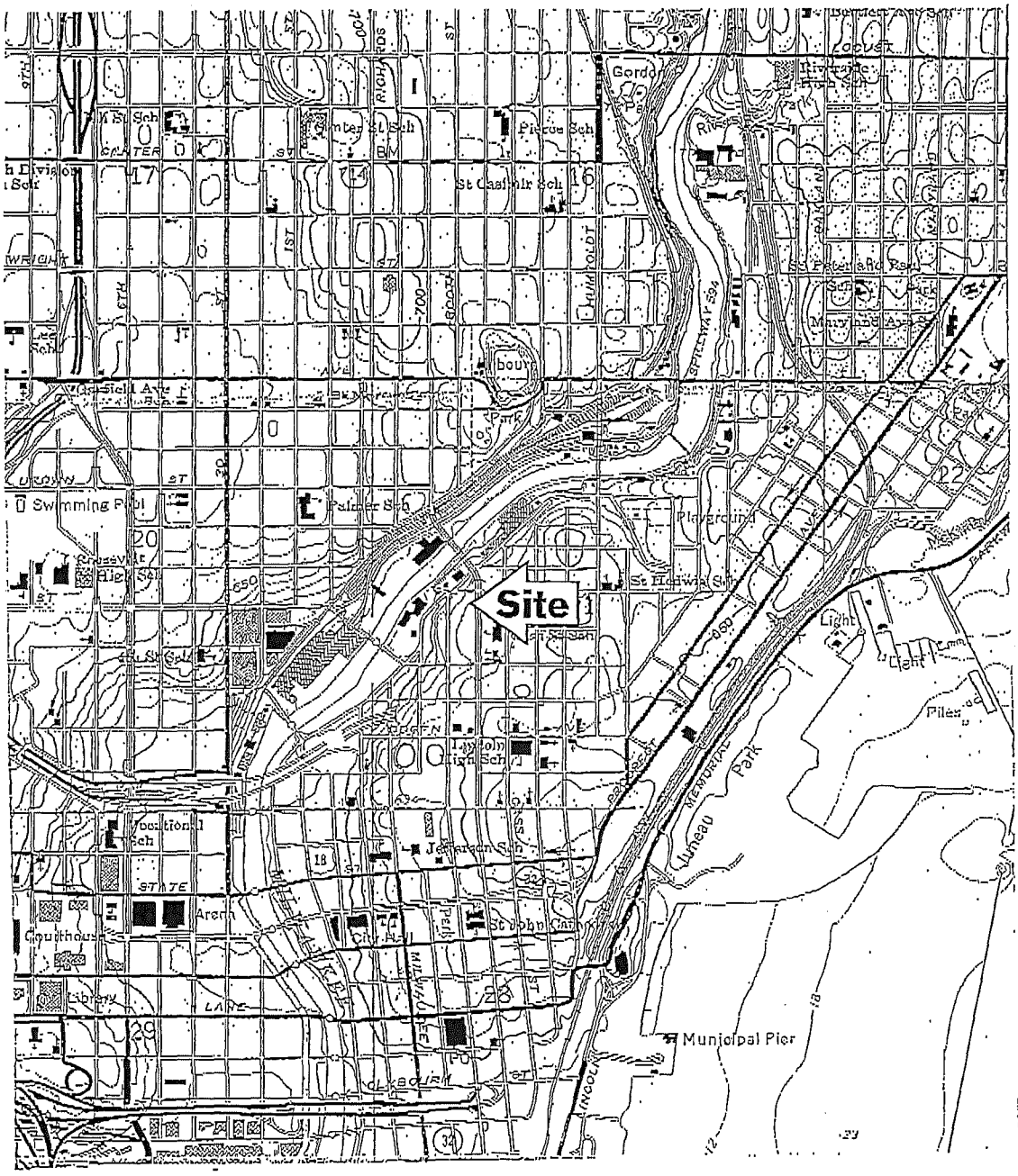
No underground utility repairs or installation of new or replacement utilities shall be conducted on the Property until after the utility and any contractor(s) for the utility have acknowledged receipt of a copy of this *Cap Maintenance Plan*.

- The underground utility repairs or installation(s) shall be conducted in accordance with the methods above with respect to excavations into unpaved and paved areas.

- If the underground utility repairs or installation(s) involve any disturbance of the material used to seal the soils on the property, such Material shall be replaced with new seals of like or superior quality.

- Prepare a brief report documenting the work performed, identifying the person(s) performing the work, and verifying that this *Cap Maintenance Plan* was adhered to. Maintain report on file (to be made available to WDNR, upon reasonable request).

\\Keydc01\vol1\MRT\ENVIRO PROJECTS\1603009 - Giovannis\1603009 cap maintenance plan.rtf



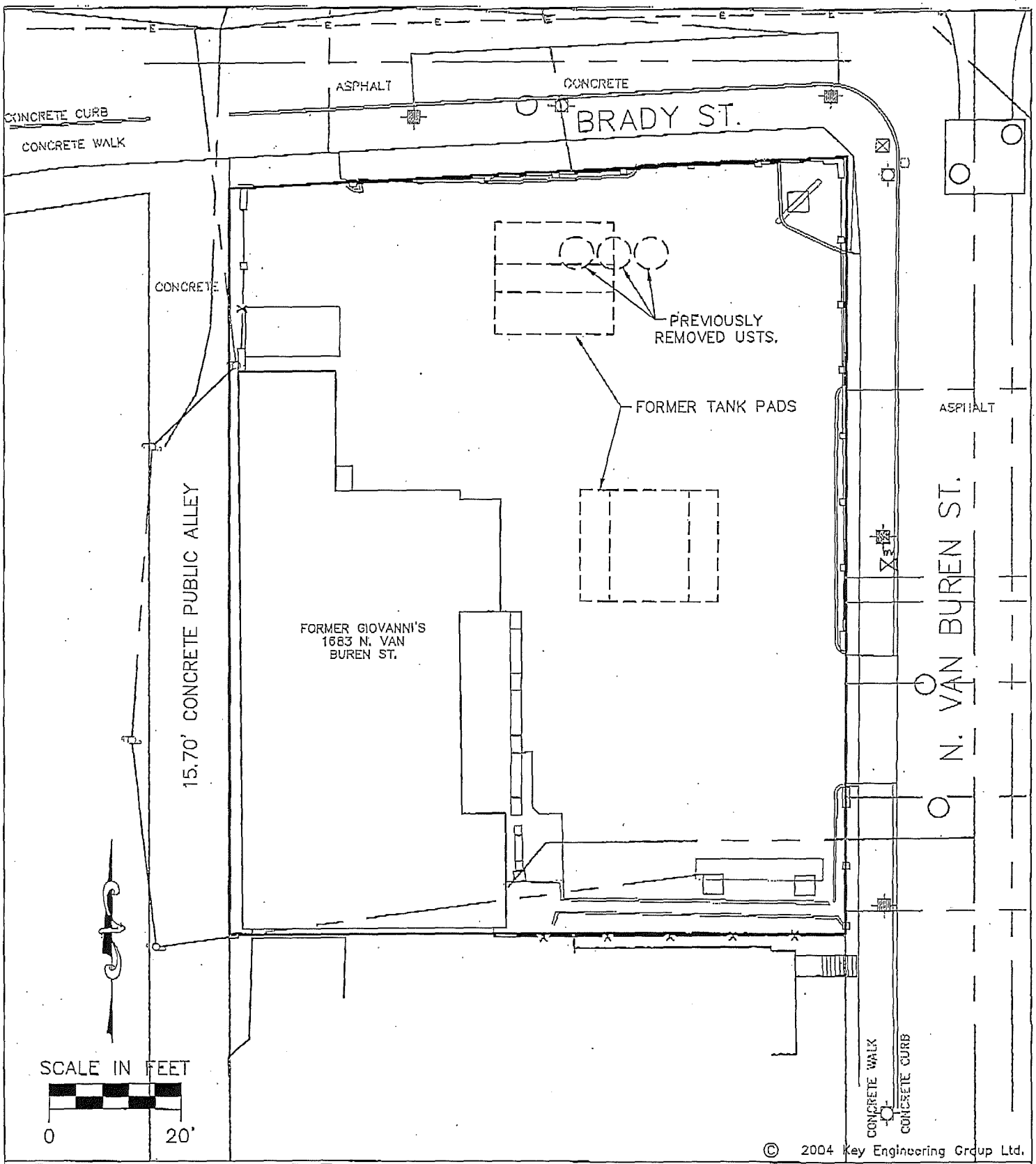
SOURCE:
USGS
Milwaukee, Wisconsin 7.5 Minute Series
Quadrangle Map 1958, Photorevised 1971

SCALE IN FEET
0 2000'

DESIGNED BY MRT	DATE 04/04/07
DRAWN BY	PROJECT 1603009
APPROVED BY MRT	SHEET NO. 1
H:\PROJECTS\2006\EN\1603009\1603009 Figure 1.dwg	

FIGURE 1
SITE LOCATION MAP
FORMER GIOVANNI'S
1683 NORTH VAN BUREN STREET
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.

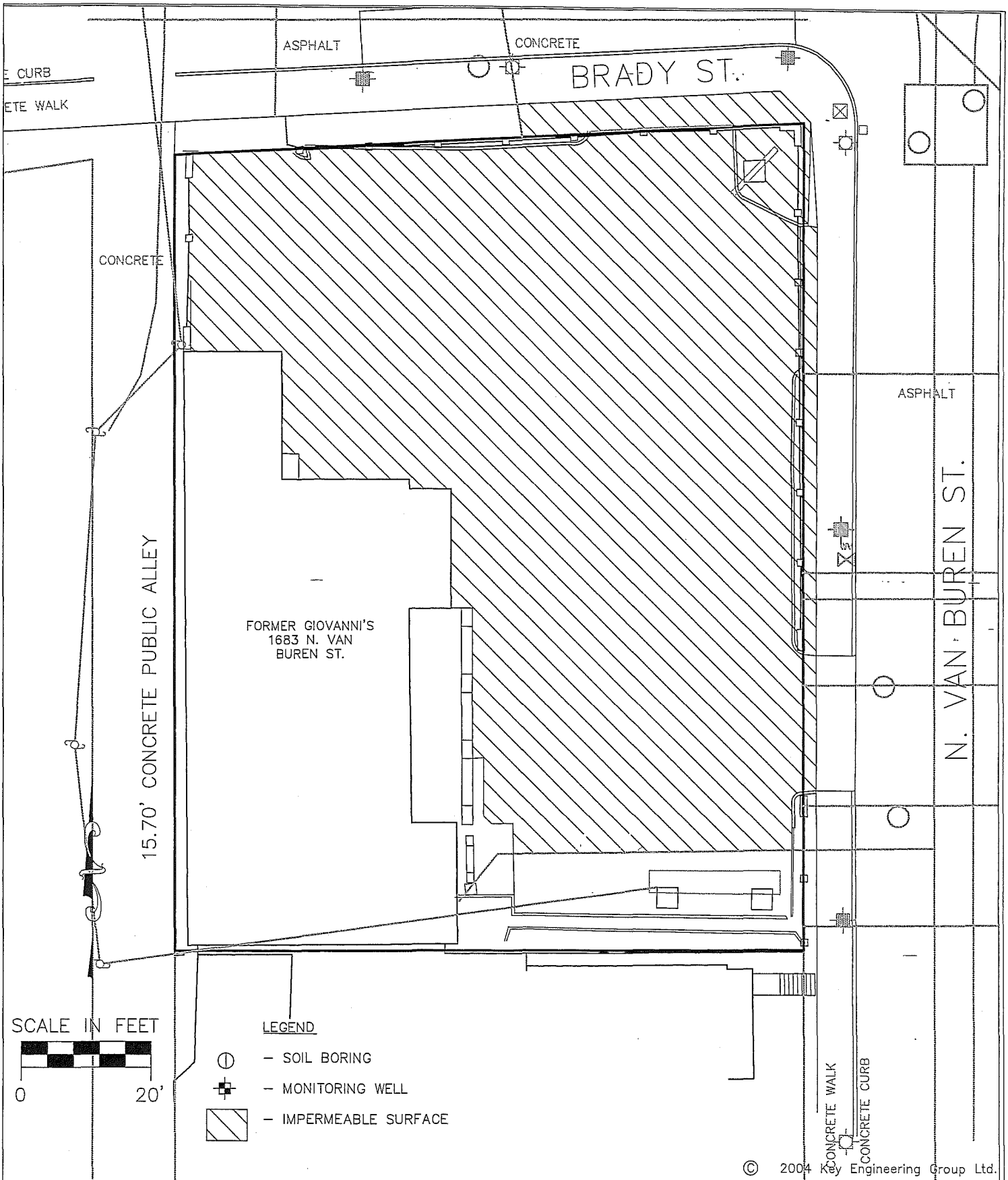


DESIGNED BY MRT	DATE 3/26/07
DRAWN BY AMF	PROJECT 1603009
APPROVED BY MRT	SHEET NO. 1
CADFILE G:\ACAD\1603009\FIGURE 2.dwg XREF G:\ACAD\1603009\FIGURE 2.dwg LMAN	

FIGURE 2
SITE LAYOUT
FORMER GIOVANNI'S
1683 N. VAN BUREN ST.
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
ENVIRONMENTAL • CIVIL • RAILROAD
735 N. WATER STREET, SUITE 1600 - MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Jul 18, 2007 - 3:19pm G:\ACAD\1603009\FIGURE 2.dwg



DESIGNED BY: MRT	DATE: 3/26/07
DRAWN BY: AMF	PROJECT: 1603009
APPROVED BY: MRT	SHEET NO.: 1
CADFILE G:\ACAD\1603009\FIGURE 2b.dwg	
XREF G:\ACAD\1603009\FIGURE 2.dwg	
LMAN	

FIGURE 5
LOCATION OF IMPERMEABLE ASHPHALT CAP
FORMER GIOVANNI'S
1683 N. VAN BUREN ST.
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
ENVIRONMENTAL • CIVIL • RAILROAD
735 N. WATER STREET, SUITE 1000 - MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Jul 19, 2007 – 1:54pm G:\ACAD\1603009\FIGURE 2b.dwg

Attachment 1
CAP INSPECTION FORM
Former Giovanni's
1683 North Van Buren Street
Milwaukee, Wisconsin
BRRTS #: 03-41-548862
FID #: 341143220

ASPHALT COVER:

INSPECTION CRITERIA	COMMENTS	MAINTENANCE ACTION REQUIRED
Significant Cracking		
Evidence of Ponding (standing water, discoloration, sedimentation)		
Storm Water Drainage		

LANDSCAPED AREA COVER:

INSPECTION CRITERIA	COMMENTS	MAINTENANCE ACTION REQUIRED
Evidence of Erosion		
Evidence of Ponding		
Vegetation Loss		

Limitations to Observation: _____

Completed by: _____

Date: _____

Attachment 2
CAP MAINTENANCE LOG
Former Giovanni's
1683 North Van Buren Street
Milwaukee, Wisconsin
BRRTS #: 03-41-548862
FID #: 341143220

Repair / Maintenance Description:		Date of Discovery:
Contractor / Individual Performing Repairs:		Date of Repair:
Inspector Name (Print)	Inspector Signature	Date of Inspection:

Repair / Maintenance Description:		Date of Discovery:
Contractor / Individual Performing Repairs:		Date of Repair:
Inspector Name (Print)	Inspector Signature	Date of Inspection:

Repair / Maintenance Description:		Date of Discovery:
Contractor / Individual Performing Repairs:		Date of Repair:
Inspector Name (Print)	Inspector Signature	Date of Inspection:

Document Number

State Bar of Wisconsin Form 1 - 2003
WARRANTY DEED
Document Name

THIS DEED, made between GIOVANNI SAFINA AND ROSA SAFINA ("Grantor," whether one or more), and RR 101, LLC, an undivided 50% interest and EK 101, LLC, an undivided 50% interest, as tenants in common ("Grantee," whether one or more).

Grantor, for a valuable consideration, conveys to Grantee the following described real estate, together with the rents, profits, fixtures and other appurtenant interests, in MILWAUKEE County, State of Wisconsin ("Property") (if more space is needed, please attach addendum):
All of Lots 3, 4 and 5,and that part of Lot 2,in Block "B", in Hathaway's Subdivision, in the Southwest 1/4 of Section 21, Town 7 North, Range 22 East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin, bounded and described as follows: Commencing at a point in the East line and 2.58 feet South of the Northeast corner of Lot 2; thence South on and along the East line of said Lot 2, 37.42 feet to the Southeast corner of said Lot 2; thence West on and along the South line of said Lot 2, 120 feet to the Southwest corner of said Lot 2; thence North on and along the West line of said Lot 2, 31.15 feet to a point; thence Northeasterly on a line 120.16 feet, more or less, to the point of commencement.

Recording Area

Name and Return Address
Attorney Victor A. Kronis
Mawicke & Goisman, S.C.
1509 North Prospect Avenue
Milwaukee, WI 53202

360-006-100-4
Parcel Identification Number (PIN)

This is not homestead property.
(is) (is not)

Grantor warrants that the title to the Property is good, indefeasible in fee simple and free and clear of encumbrances except: municipal and zoning ordinances and agreements entered under them; recorded easements for the distribution of utility and municipal services; recorded building and use restrictions and covenants; general taxes levied in the year of closing; encroachment to the extent of 0.6 inches upon the premises on the South by a fence located principally on the subject premises

Dated September 1, 2006

* Giovanni Safina (SEAL)

* Rosa Safina (SEAL)

* (SEAL)

* (SEAL)

AUTHENTICATION

Signature(s) _____
_____
authenticated on _____.

_____
* _____
TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, _____
authorized by Wis. Stat. § 706.06)

THIS INSTRUMENT DRAFTED BY:
Attorney Martin J. Greenberg

ACKNOWLEDGMENT

STATE OF WISCONSIN)
) ss.
MILWAUKEE COUNTY)
Personally came before me on SEPT 1, 2006,
the above-named GIOVANNI SAFINA AND ROSA SAFINA
to me known to be the person(s) who executed the foregoing instrument and acknowledged the same.

M. J. Schmalfeldt
* M. J. SCHMALFELDT
Notary Public, State of Wisconsin
My Commission (is permanent) (expires: 6/24/08)

(Signatures may be authenticated or acknowledged. Both are not necessary.)

NOTE: THIS IS A STANDARD FORM. ANY MODIFICATIONS TO THIS FORM SHOULD BE CLEARLY IDENTIFIED.

WARRANTY DEED — STATE BAR OF WISCONSIN — FORM No. 1-2003

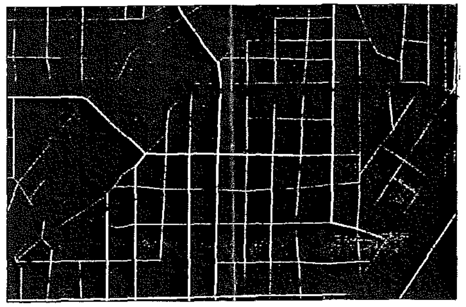
*Type name below signatures.

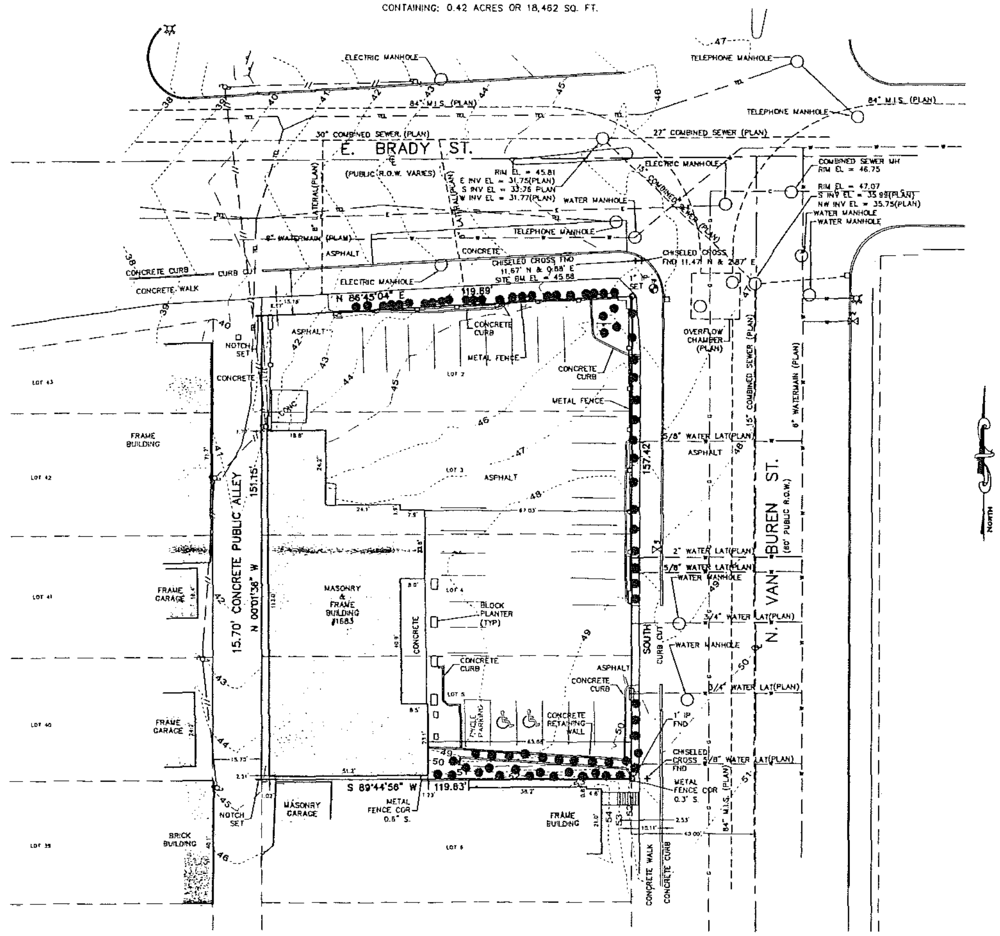
LEGAL DESCRIPTION:

ALL OF LOTS 3, 4 AND 5, AND THAT PART OF LOT 2, IN BLOCK "B", IN HATHAWAY'S SUBDIVISION, IN THE SOUTHWEST 1/4 OF SECTION 21, TOWN 7 NORTH, RANGE 22 EAST, IN THE CITY OF MILWAUKEE, COUNTY OF MILWAUKEE, STATE OF WISCONSIN, BOUNDED AND DESCRIBED AS FOLLOWS:
COMMENCING AT A POINT IN THE EAST LINE AND 2.58 FEET SOUTH OF THE NORTHEAST CORNER OF LOT 2, THENCE SOUTH ON AND ALONG THE EAST LINE OF SAID LOT 2, 37.42 FEET TO THE SOUTHEAST CORNER OF SAID LOT 2; THENCE WEST ON AND ALONG THE SOUTH LINE OF SAID LOT 2, 120 FEET TO THE SOUTHWEST CORNER OF SAID LOT 2; THENCE NORTH ON AND ALONG THE WEST LINE OF SAID LOT 2, 31.15 FEET TO A POINT; THENCE NORTHEASTERLY ON A LINE 120.16 FEET, MORE OR LESS, TO THE POINT OF COMMENCEMENT.

CONTAINING: 0.42 ACRES OR 18,462 SQ. FT.

VICINITY MAP





DIGGERS HOTLINE
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

NOTES

1. SUBJECT PROPERTY ZONED: LB2, LOCAL BUSINESS DISTRICT DISTRICT.
2. SETBACKS BASED ON CITY OF MILWAUKEE ZONING CODE AND ARE AS FOLLOWS:

FRONT SETBACK:	MIN – NONE
	MAX – AVERAGE
SECONDARY:	MIN – NONE
	MAX – 5'
REAR:	NONE
SIDE:	NONE
HEIGHT	MIN – 18'
	MAX – 60'

3. LEGAL DESCRIPTION OF SUBJECT PROPERTY IS BASED ON CHICAGO TITLE INSURANCE COMPANY COMMITMENT NO. 12123210 EFFECTIVE DATE OF MARCH 8, 2006.
4. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, ON INFORMATION FURNISHED BY THE UTILITY COMPANIES, DIGGERS HOTLINE AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
5. SUBJECT PROPERTY LIES IN ZONE C AND IS NOT IN THE 100 YEAR FLOOD PLAIN PER FLOOD INSURANCE RATE MAP – COMMUNITY PANEL #550278 0004 B, EFFECTIVE DATE MARCH 1, 1982.
6. BUILDING CONTAINS 18,482 SQUARE FEET.
7. SITE CONTAINS 25 REGULAR PARKING STALLS, 2 HANDICAPPED PARKING STALLS AND 1 MOTORCYCLE PARKING STALL.
8. PROJECT BENCHMARK – CITY OF MILWAUKEE STANDARD BENCHMARK NO. 46, EL = 46.564
9. SITE BENCHMARK – CHISELED CROSS AT THE SOUTHWEST CORNER, INTERSECTION OF N. VAN BUREN AND E. BRADY STREET, EL = 45.88 (AS SHOWN)
10. ELEVATIONS BASED ON DATA RECEIVED FROM THE CITY OF MILWAUKEE AND ARE AT THE CITY OF MILWAUKEE DATUM.

EXCEPTIONS

THERE ARE NO PLOTTABLE EXCEPTIONS LISTED IN THE SUPPLIED TITLE COMMITMENT.

LEGEND

—W—	EXISTING WATER MAIN
—G—	UNDERGROUND GAS SERVICE
—TEL—	UNDERGROUND TELEPHONE SERVICE
—CTV—	UNDERGROUND CABLE TV SERVICE
—E—	UNDERGROUND ELECTRIC SERVICE
—//—	OVERHEAD UTILITY LINES
	METAL FENCE
	UTILITY POLE
	ELECTRIC METER
	CABLE TV PEDESTAL
	TELEPHONE PEDESTAL
	GAS METER
	MAIL BOX
	METAL SIGN
	HYDRANT
	BOLLARD
	BUSH

To: CHICAGO TITLE INSURANCE COMPANY, ENDEAVOR PROJECT DEVELOPMENT, LLC, A WISCONSIN LIMITED LIABILITY COMPANY, GIOVANNI SAFINA AND ROSA SAFINA, the successors and assigns of any of the foregoing and any other person who purchases, mortgages or guarantees the title thereto within one year of the date of this survey.

I hereby certify that the survey was prepared from an actual on-the-ground instrument survey of the subject premises; that the same accurately shows the location of the boundaries of the subject premises and the location of all streets, highways, alleys and public ways crossing and abutting said premises; that the dimensions of any improvements and the location thereof with respect to the boundaries are accurately shown as the same were situated on APRIL 6, 2006; that there are no encroachments by improvements appurtenant to adjoining premises upon the subject premises, nor from the subject premises unless shown hereon; that all easements and rights of way which are appurtenant to or burden the subject premises and are referred to in the title commitment number 1212320 for the subject premises dated MARCH 8, 2006; issued by CHICAGO TITLE INSURANCE COMPANY or are apparent from a visual inspection, are delineated hereon; that the subject premises are not in a 100-year interval flood plain or special flood hazard area and that, without limiting the foregoing, this survey was made in accordance with "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys," jointly established and adopted by ALTA and ACSM in 1999, and meets the accuracy requirements of an Suburban Survey, as defined therein.

4-6, 2006
DATE

MICHAEL J. BERRY, R.L.S.
REGISTERED LAND SURVEYOR S-2545

WISCONSIN MICHAEL J BERRY 2545 BROOKFIELD, WI LAND SURVEYOR

GRAPHIC SCALE
-20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

REVISION NO.	DESCRIPTION	DATE	BY

DESIGNED BY DHS	DATE 4-6-06
DRAWN BY DHS	DATE 4-6-06
APPROVED BY MJB	DATE 4-6-06
CADFILE XREF LMAN	

ALTA/ACSM LAND TITLE SURVEY
ENDEAVOUR PROJECT DEVELOPMENT, LLC
MILWAUKEE, WI

"THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO."

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 1000
MILWAUKEE, WI 53202

KEY PROJECT NUMBER	1603009
PROJECT SCALE	1" = 20'
SHEET NUMBER	C-1

Reference: *Geographic Information System Registry*
Former Giovanni's
1683 North Van Buren Street
Milwaukee, Wisconsin 53202

To Whom it May Concern:

I, Randy Roth of RR 101 LLC & EK 101 LLC, representative of the responsible party do hereby declare to the best of my knowledge that the attached legal property description represents completely and accurately the above reference property for which I am requesting listing on the Wisconsin Department of Natural Resources Geographic Information System Registry of Closed Remediation Sites.

Please find a copy of the legal description as stated in the property deed for the above reference property.

Signed: _____ Date: 9/5/07

Randy Roth, RR 101 LLC & EK 101 LLC.

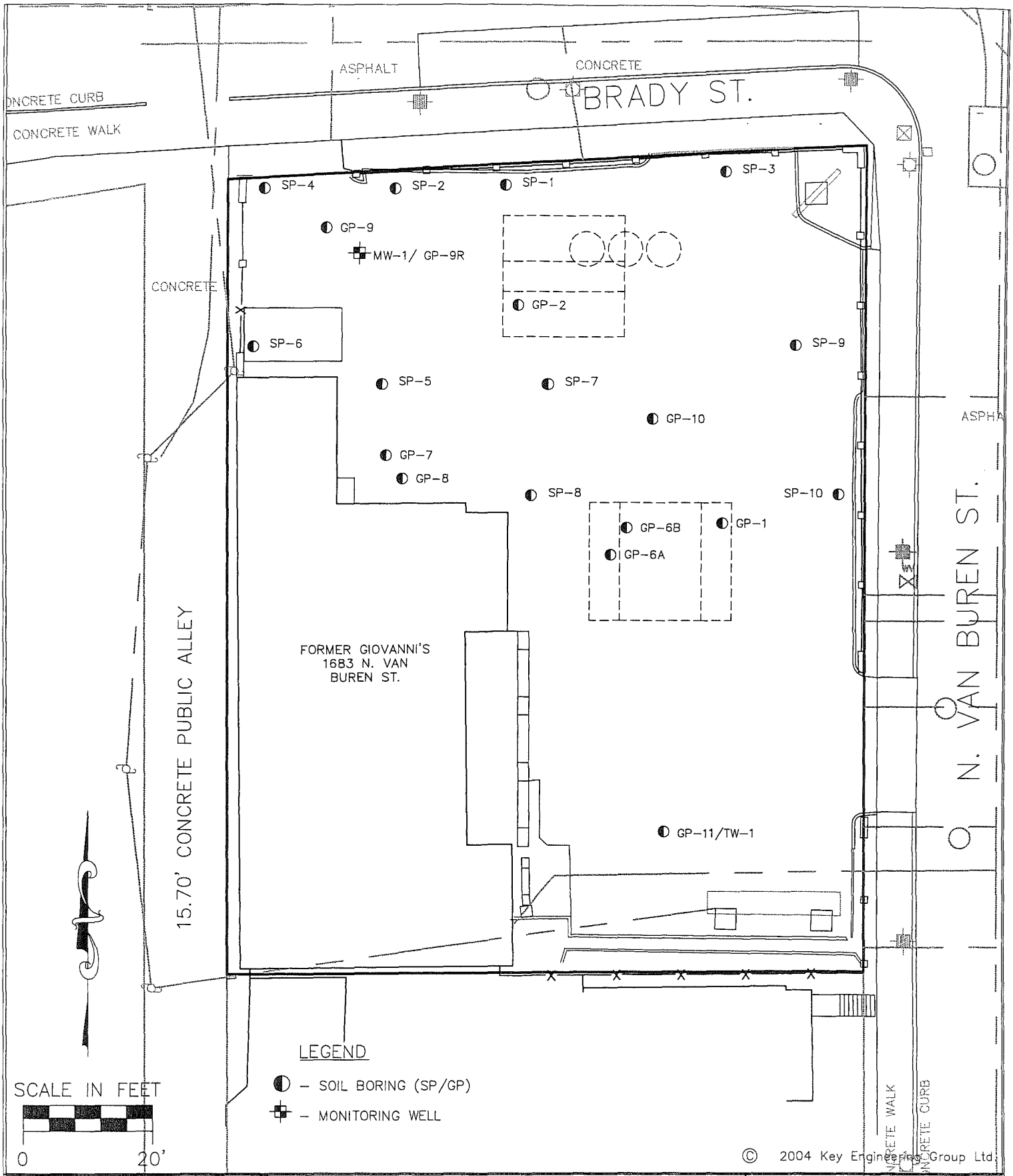
SOURCE:
USGS
Milwaukee, Wisconsin 7.5 Minute Series
Quadrangle Map 1958, Photorevised 1971

SCALE IN FEET
0 2000'

DESIGNED BY MRT	DATE 04/04/07
DRAWN BY	PROJECT 1603009
APPROVED BY MRT	SHEET NO. 1
H:\PROJECTS\2006\EN\1603009\1603009 Figure 1.doc	

FIGURE 1
SITE LOCATION MAP
FORMER GIOVANNI'S
1683 NORTH VAN BUREN STREET
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.

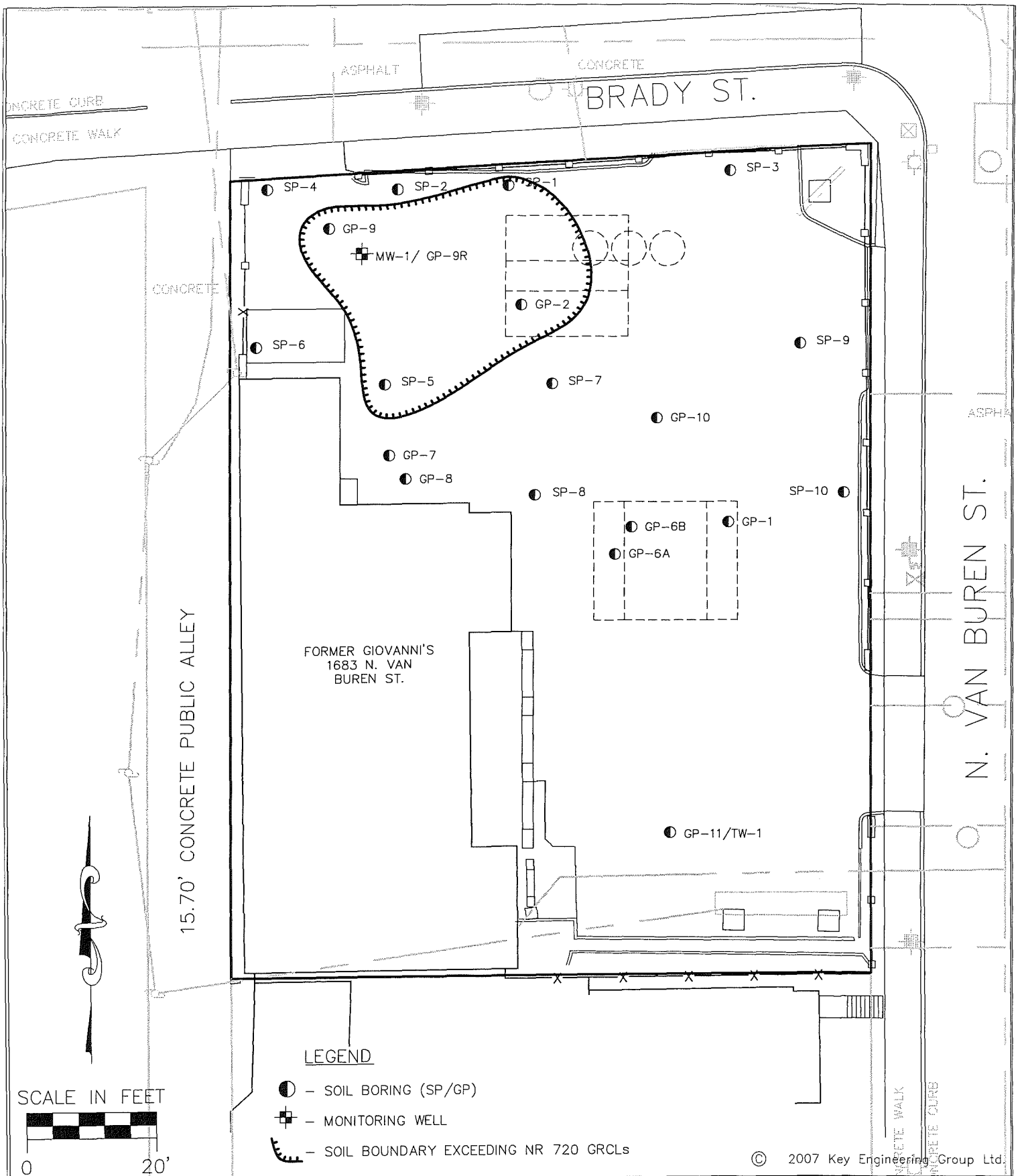


DESIGNED BY MRT	DATE 3/26/07
DRAWN BY AMF	PROJECT 1603009
APPROVED BY MRT	SHEET NO. 1
CADFILE G:\ACAD\1603009\FIGURE 2.dwg	
XREF G:\ACAD\1603009\FIGURE 2.dwg	
LMAN	

FIGURE 3
SOIL BORING LOCATIONS
FORMER GIOVANNI'S
1683 N. VAN BUREN ST.
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
ENVIRONMENTAL • CIVIL • RAILROAD
735 N. WATER STREET, SUITE 1000 - MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Jul 18, 2007 – 3:26pm G:\ACAD\1603009\FIGURE 2.dwg



DESIGNED BY MRT	DATE 10/23/2007
DRAWN BY AMF	PROJECT 1603009
APPROVED BY MRT	SHEET NO. 1
CADFILE G:\ACAD\1603009\FIGURE 2.dwg	
XREF G:\ACAD\1603009\FIGURE 2.dwg	
LMAN	

FIGURE 6
SOIL IMPACTS EXCEEDING NR 720 GRCLs
FORMER GIOVANNI'S
1683 N. VAN BUREN ST.
MILWAUKEE, WISCONSIN

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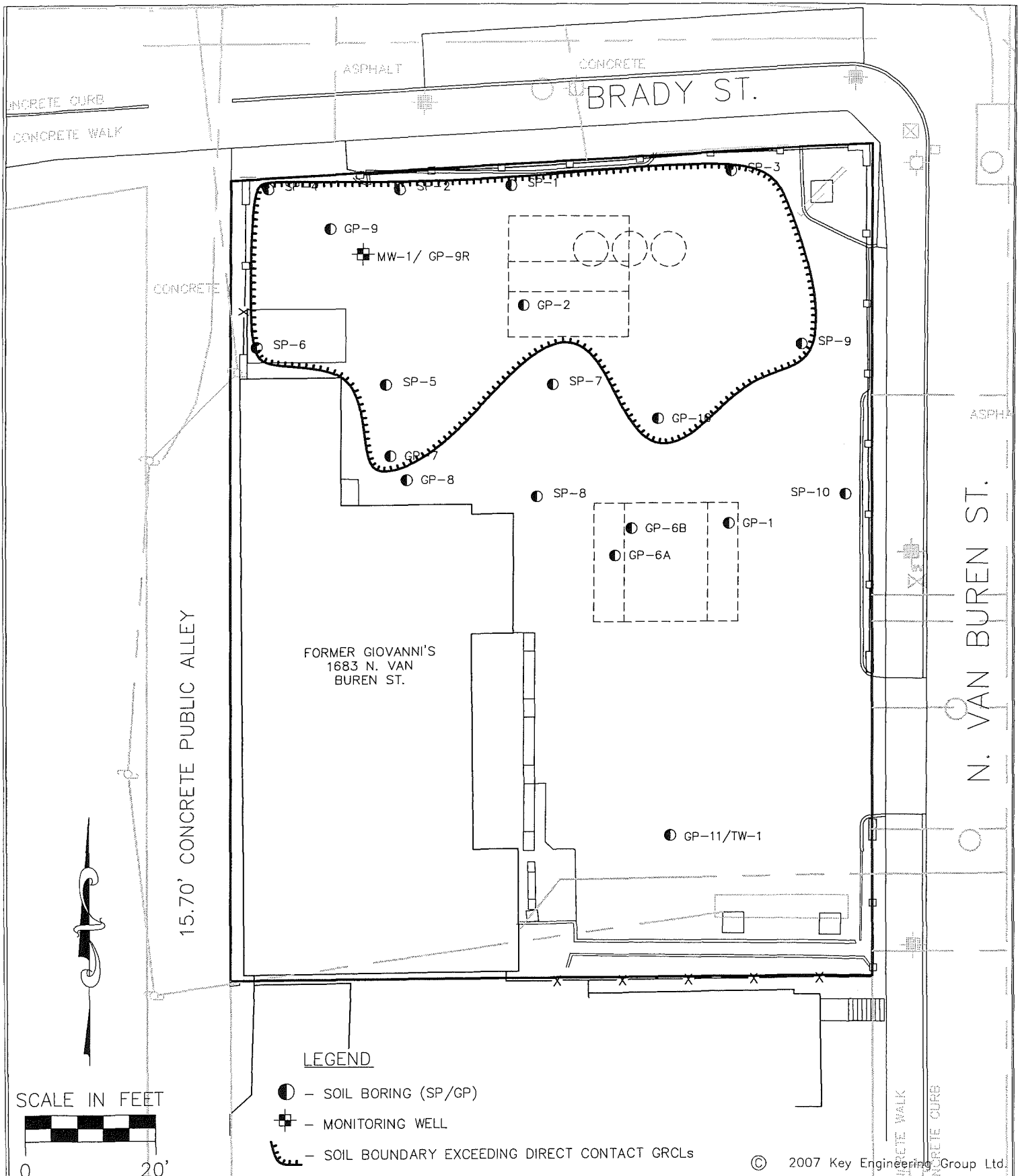
Oct 23, 2007 – 2:46pm G:\ACAD\1603009\FIGURE 2.dwg



DESIGNED BY MRT	DATE 10/23/2007
DRAWN BY AMF	PROJECT 1603009
APPROVED BY MRT	SHEET NO. 1
CADFILE G:\ACAD\1603009\FIGURE 2.dwg	
XREF G:\ACAD\1603009\FIGURE 2.dwg	
LMAN	

FIGURE 7 – SHALLOW SOIL IMPACTS EXCEEDING DIRECT CONTACT GRCLs
FORMER GIOVANNI'S
1683 N. VAN BUREN ST.
MILWAUKEE, WISCONSIN

KEY ENGINEERING GROUP LTD.
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735 N. WATER STREET, SUITE 1000 - MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Oct 23, 2007 – 2:45pm G:\ACAD\1603009\FIGURE 2.dwg

TABLE 1

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

FORMER GIOVANNI'S
1683 North Van Buren Street
Milwaukee, Wisconsin

PARAMETERS	SAMPLE IDENTIFICATION														GENERIC RCLs	
	GP-1	GP-2		GP-6B	GP-7	GP-8	GP-9		GP-9R	GP-10		GP-11		Pile [3]	PROTECTION OF GROUNDWATER	DIRECT CONTACT (NON-INDUSTRIAL)
Date Collected	11/7/05	11/7/05	11/7/05	11/7/05	11/7/05	5/10/06	5/10/06	5/10/06	6/15/06	5/10/06	5/10/06	5/10/06	5/10/06	11/9/06	---	---
Depth (feet bgs)	10-11	3-4	9-10	3-4	3-4	3-4	2-4	8-10	30-32	2-4	8-10	2-4	14-16		---	---
Bulk Dry Density (lbs/ft^3)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GRO	---	---	---	---	---	---	---	---	---	---	---	---	---	9.0		
TPH DRO	---	---	---	---	---	---	---	---	---	---	---	---	---	410		
Detected VOCs (µg/kg)																
Benzene	<25	39	<25	<25	<25	<28	<28	180	<25	<29	<29	<30	<29	<150	5.5 (1)	---
sec-Butylbenzene	<25	117	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
tert-Butylbenzene	<25	430	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
cis-1,2-Dichloroethene	<25	<25	<25	<25	<25	<28	460	300	<25	<29	<29	<30	<29	320	---	---
trans-1,2-Dichloroethene	<25	<25	<25	<25	<25	<28	470	<27	<25	<29	<29	<30	<29	<150	---	---
Ethylbenzene	<25	2,550	<25	<25	<25	<28	<28	310	<25	<29	<29	<30	<29	<150	2,900 (1)	---
Isopropylbenzene	<25	284	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
p-Isopropyltoluene	<25	57	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
Naphthalene	<25	1,100	<25	<25	<25	<55	<56	<54	<25	<58	230	<59	<59	<300	---	---
n-Propylbenzene	<25	1,090	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
Tetrachloroethene	<25	<25	<25	<25	51 J	<28	<28	<27	<25	<29	<29	<30	<29	13,000	---	---
Toluene	<25	170	<25	<25	<25	<28	<28	140	<25	<29	<29	<30	<29	<150	1,500 (1)	---
Trichloroethene	<25	<25	<25	<25	<25	<28	110	490	<25	<29	<29	<30	<29	1,500	---	---
1,2,4-Trimethylbenzene	<25	5,200	29 J	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
1,3,5-Trimethylbenzene	<25	1,120	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150	---	---
Vinyl Chloride	<25	<25	<25	<25	<25	<39	<39	82	<25	<29	<29	<30	<29	<210	---	---
Xylenes	<75	5,300	<75	<75	<75	<94	<96	150	<25	<41	<41	<41	<29	<510	4,100 (1)	---
Detected PAHs (µg/kg)																
Acenaphthene	<17	357 J	<17	<17	441	---	<56	<54	<17	<58	<59	<59	<59		38,000 (2)	900,000 (2)
Anthracene	<11	678	<11	<11	1,830	---	87	<5.4	<11	12	<5.9	<5.9	9.9		3,000,000 (2)	5,000,000 (2)
Benzo(a)anthracene	<12	**920**	<12	<12	**3,650**	---	**410**	<5.4	22 J	36	16	<5.9	15		17,000 (2)	88 (2)
Benzo(a)pyrene	<8.1	**539**	<8.1	<8.1	**3,160**	---	**430**	<5.4	**13 J**	**37**	**15**	<5.9	8.2		48,000 (2)	8.8 (2)
Benzo(b)fluoranthene	<7.5	**1,170**	<7.5	<7.5	**4,230**	---	**310**	<5.4	15 J	35	15	<5.9	8.5		360,000 (2)	88 (2)
Benzo(g,h,i)perylene	<8.5	433	<8.5	<8.5	1,780	---	250	<5.4	14 J	18	17	<5.9	6.6		6,800,000 (2)	1,800 (2)
Benzo(k)fluoranthene	<14	513	<14	<14	**1,180**	---	220	<5.4	<14	21	10	<5.9	<5.9		870,000 (2)	880 (2)
Chrysene	<20	1,140	<20	<20	2,450	---	370	<5.4	<20	37	16	<5.9	12		37,000 (2)	8,800 (2)
Dibenzo(a,h)anthracene	<11	<110	<11	<11	**245**	---	**60**	<8.1	<11	<8.8	<8.8	<8.9	<8.8		38,000 (2)	8.8 (2)
Fluoranthene	<7.4	3,020	<7.4	<7.4	7,780	---	650	30	24	130	50	16	68		500,000 (2)	600,000 (2)
Fluorene	<9.5	408	<9.5	<9.5	386	---	19	<11	<9.5	<12	<12	<12	<12		100,000 (2)	600,000 (2)
Indeno(1,2,3-cd)pyrene	<9.5	**300**	<9.5	<9.5	**1,250**	---	**290**	<5.4	<9.5	31	14	<5.9	<5.9		680,000 (2)	88 (2)
1-methyl naphthalene	<11	4,850	<11	<11	<55	---	<34	<32	<11	<35	<35	<35	<35		23,000 (2)	1,100,000 (2)
2-methyl naphthalene	<12	10,500	<12	<12	<60	---	120	<27	<12	43	<19	<30	<29		20,000 (2)	600,000 (2)
Naphthalene	<17	15,300	<17	<17	<85	---	<34	<32	<17	<35	<35	<35	<35		400 (2)	20,000 (2)
Phenanthrene	<8.9	1,890	<8.9	<8.9	4,110	---	230	23	23 J	110	37	12	86		1,800 (2)	18,000 (2)
Pyrene	<11	2,470	<11	<11	6,080	---	490	<5.4	24 J	85	32	10	28		8,700,000 (2)	500,000 (2)

Notes:

Bold concentrations exceed NR 746 Table 1 values or generic RCL for non-industrial direct contact
Boxed concentrations exceed generic RCL for protection of groundwater
--- - not analyzed or no standard established
(1) - NR 720 generic RCLS
(2) - Suggested generic RCLs PAHs Interim Guidance (WDNR), Publication RR-519-97, April 1997 corrected).
(3) - A sample was collected from soil excavated from the northwest corner of the parking lot.
(4) - This boring was discontinued after 1.5 feet, due to contact with a solid surface. The boring was subsequently abandoned.
bgs - below ground surface
J - analyte detected between limit of detection and limit of quantitation
lbs/ft^3 - pounds per cubic foot
PAHs - polynuclear aromatic hydrocarbons
RCL - residual contaminant level
µg/kg - micrograms per kilogram
VOCs - volatile organic compounds

TABLE 1 (CONTINUED)

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

FORMER GIOVANNI'S
1683 North Van Buren Street
Milwaukee, Wisconsin

PARAMETERS	SP-1		SP-2		SP-3		SP-4		SP-5		SP-6		SP-7		SP-8		SP-9		SP-10		GENERIC RCLs PROTECTION OF GROUNDWATER	GENERIC RCLs DIRECT CONTACT (NON-INDUSTRIAL)
Date Collected	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	---	---
Depth (feet bgs)	2-4	8-10	2-4	8-10	2-4	10-12	2-4	8-10	2-4	8-10	2-4	8-10	2-4	10-12	2-4	8-10	2-4	10-12	2-4	8-10	---	---
Bulk Dry Density (lbs/ft^3)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Detected VOCs (µg/kg)																						
Benzene	550	107	<25	<25	<25	<25	<25	<25	<125	221	<25	<25	<25	<25	---	---	<25	<25	---	---	5.5 (1)	---
sec-Butylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<125	25.6 J	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
tert-Butylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
cis-1,2-Dichloroethene	<25	283	43 J	<25	<25	<25	87	58 J	<125	<25	35 J	<25	<25	<25	---	---	<25	<25	---	---	---	---
trans-1,2-Dichloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
Ethylbenzene	1,270	<25	<25	<25	<25	<25	<25	<25	<125	5,900	<25	<25	<25	<25	---	---	<25	<25	---	---	2,900 (1)	---
Isopropylbenzene	50 J	<25	<25	<25	<25	<25	<25	<25	<125	730	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
p-Isopropyltoluene	196	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
Naphthalene	600	<25	47 J	<25	<25	63	<25	<25	<125	580	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
n-Propylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<125	1,630	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
Tetrachloroethene	<25	2,960	9,400	97	<25	<25	660	<25	16,900	<25	4,000	<25	<25	<25	---	---	<25	<25	---	---	---	---
Toluene	26.8 J	<25	<25	88	<25	<25	<25	<25	<125	168	<25	<25	<25	<25	---	---	<25	<25	---	---	1,500 (1)	---
Trichloroethene	<25	1,090	400	<25	<25	<25	308	87	<125	<25	110	<25	<25	<25	---	---	<25	<25	---	---	---	---
1,2,4-Trimethylbenzene	156	<25	25.9 J	<25	<25	<25	<25	<25	<125	3,300	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
1,3,5-Trimethylbenzene	25.5 J	<25	<25	<25	<25	<25	<25	<25	<125	380	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
Vinyl Chloride	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25	---	---	<25	<25	---	---	---	---
Xylenes	548 J	<75	<75	57 J	<75	<75	<75	<75	<375	2,590	<75	<75	<75	<75	---	---	<75	<75	---	---	4,100 (1)	---
Detected PAHs (µg/kg)																						
Acenaphthene	499	<17	<17	<17	<17	30 J	<17	<17	44 J	<17	<17	<17	<17	<17	<17	29 J	<17	<17	<17	<17	38,000 (2)	900,000 (2)
Acenaphthylene	<19	<19	<19	<19	<19	<19	<19	<19	82	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19		
Anthracene	441	11 J	11 J	<11	<11	100	<11	<11	116	<11	16 J	<11	<11	<11	<11	46	17 J	<11	<11	35	3,000,000 (2)	5,000,000 (2)
Benzo(a)anthracene	**532**	18 J	44	<12	40	**291**	34 J	20 J	**598**	<12	62	<12	<12	<12	<12	63	74	<12	<12	65	17,000 (2)	88 (2)
Benzo(a)pyrene	**690**	10 J	52	<8.1	47	**325**	31	15 J	**935**	<8.1	87	<8.1	<8.1	<8.1	<8.1	60	97	<8.1	<8.1	83	48,000 (2)	8.8 (2)
Benzo(b)fluoranthene	**920**	14 J	72	<7.5	64	**518**	49	31	**1,530**	18 J	**158**	8.5 J	<7.5	<7.5	7.9 J	**128**	**150**	<7.5	15 J	**172**	360,000 (2)	88 (2)
Benzo(g,h,i)perylene	560	20 J	110	<8.5	29	288	30	20 J	1,090	18 J	98	<8.5	<8.5	<8.5	<8.5	58	80	<8.5	<8.5	76	6,800,000 (2)	1,800 (2)
Benzo(k)fluoranthene	303	<14	26 J	<14	24 J	176	21 J	<14	554	<14	51	<14	<14	<14	<14	32 J	47	<14	<14	59	870,000 (2)	880 (2)
Chrysene	739	21 J	55 J	<20	50 J	401	43 J	34 J	907	21 J	107	<20	<20	<20	<20	152	123	<20	<20	158	37,000 (2)	8,800 (2)
Dibenzo(a,h)anthracene	**119**	<11	**21 J**	<11	<11	**60**	<11	<11	**181**	<11	<11	<11	<11	<11	<11	<11	**12 J**	<11	<11	**19 J**	38,000 (2)	8.8 (2)
Fluoranthene	1,700	49	103	<7.4	98	877	79	84	1,450	26	167	17 J	8.1 J	<7.4	17 J	469	244	8.3 J	18 J	377	500,000 (2)	600,000 (2)
Fluorene	358	<9.5	<9.5	<9.5	<9.5	30 J	<9.5	<9.5	30 J	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	34	<9.5	<9.5	<9.5	18 J	100,000 (2)	600,000 (2)
Indeno(1,2,3-cd)pyrene	**389**	13 J	52	<9.5	20 J	**245**	20 J	13 J	**606**	<9.5	63	<9.5	<9.5	<9.5	<9.5	35	46	<9.5	<9.5	53	680,000 (2)	88 (2)
1-methyl naphthalene	669	<11	<11	<11	<11	12 J	<11	<11	14 J	<11	<11	<11	<11	<11	<11	43	<11	<11	<11	<11	23,000 (2)	1,100,000 (2)
2-methyl naphthalene	703	<12	<12	<12	<12	<12	<12	<12	14 J	<12	<12	<12	<12	<12	<12	68	<12	<12	<12	<12	20,000 (2)	600,000 (2)
Naphthalene	2,960	<17	<17	<17	<17	<17	<17	<17	<17	372	<17	<17	<17	<17	<17	24 J	<17	<17	<17	<17	400 (2)	20,000 (2)
Phenanthrene	1,680	60	52	22 J	43	470	43	66	232	31	72	22 J	9.0 J	11 J	18 J	430	139	9.1 J	11 J	252	1,800 (2)	18,000 (2)
Pyrene	1,590	41	87	<11	92	684	68	61	1,140	20 J	131	14 J	<11	<11	12 J	303	214	<11	14 J	259	8,700,000 (2)	500,000 (2)

Notes:

Bold concentrations exceed NR 746 Table 1 values or generic RCL for non-industrial direct contact
Boxed concentrations exceed generic RCL for protection of groundwater
--- - not analyzed or no standard established
(1) - NR 720 generic RCLS
(2) - Suggested generic RCLs PAHs Interim Guidance (WDNR), Publication RR-519-97, April 1997 corrected).
bgs - below ground surface
J - analyte detected between limit of detection and limit of quantitation
lbs/ft^3 - pounds per cubic foot
PAHs - polynuclear aromatic hydrocarbons
RCL - residual contaminant level
µg/kg - micrograms per kilogram
VOCs - volatile organic compounds

TABLE 2

SPLP ANALYTICAL SUMMARY

FORMER GIOVANNI'S
1683 North Van Buren Street
Milwaukee, Wisconsin

PARAMETERS	SAMPLE IDENTIFICATION	NR 140	
	GP-9R/MW-1	ES (ug/l)	PAL (ug/l)
Date Collected	6/15/06	---	---
Total Organic Carbon (mg/kg)	1,500	---	---
SPLP (ug/l)			
1,1-Dichloroethane	1.6	850	85
cis-1,2-Dichloroethene	3.0	70	7

Notes:

Bold concentrations exceed NR 140 PAL
--- - not analyzed, not applicable or no standard established
ES - enforcement standard
mg/kg - milligrams per kilogram
µg/l - micrograms per liter
PAL - preventive action limit
SPLP - synthetic precipitate leachate procedure

Appendix 3

State of Wisconsin
Department of Natural Resources

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

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

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Van Buren		SP-11

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Greg Last Name: Westa Firm: Horizon	07/17/2019	07/17/2019	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _ _	_ _ _ _ _		_____ Feet MSL	_____ Feet MSL	2 inches

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

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee		Milwaukee

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
VP-1 0-5	31/5-1	X d	0	21" crushed concrete. Rest stiff brown clay.				0-2 ϕ.ϕ 2-4 ϕ.ϕ 4-6 ϕ.ϕ		D ↓				Sampled 1-3 and 7-9 for VOCs.
VP-2 5-10	31/5-1	X ↓	5	All stiff brown clay.				6-8 ϕ.ϕ 8-10 ϕ.ϕ		D ↓				
			10	E.O.B. @ 10' bgs										

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

Signature _____ Firm KEY Engineering

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State of Wisconsin
Department of Natural Resources

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

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

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Van Buren		SP-12

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Jorge Last Name: Wester Firm: Heritage	07/17/2019 (m m d d y y y y)	07/17/2019 (m m d d y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2 inches

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

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee		Milwaukee

Sample Number and Type	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
GP-1 0-5'	31/5'	X ↓	0	1' crushed concrete and clear gravel Rest stiff brown clay.				0-1 Ø.Ø 2-4 Ø.Ø 4-6 Ø.Ø		D ↓				Sampled 8-10 for VOCs.
GP-2 5-10	25'/5'	X ↓	5	1' stiff brown clay. 4" Sand and coarse gravel, angular. Tan, wet, Rest stiff brown clay.				0-8 Ø.Ø 8-10 Ø.Ø		P W D ↓				
			10	G.O.B. @ 10' bgs										

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

Signature _____ Firm GEI Engineering

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State of Wisconsin
Department of Natural Resources

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

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

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Van Buren		SP-13

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Um Last Name: Wiste Firm: Horizon	07/17/2019	07/17/2019	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			____ Feet MSL	____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane ________ N, ________ E
____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E ____ Feet ☐ S ____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee		Milwaukee

Sample Number and Type	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	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP-1 0-5	2.5' / 5'	X ↓	0	1' crushed concrete Rest stiff brown clay w/ trace white gravel, d.				0-2 0.0 2-4 0.0 4-6 0.0		D ↓				Sampled 7-9 for VOCs.
GP-2 5-10	2' / 5'	X ↓	5	1' stiff brown clay surrounded by sand & gravel, fine to coarse, Rest stiff brown clay.				6-8 0.0 8-10 0.1		M ↓				
			10	E.O.B. @ 10' bgs										

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

Signature	Firm
[signature]	CES Engineering

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State of Wisconsin
Department of Natural Resources

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

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Van Buren		SP-15

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Greg Last Name: Wister Firm: Horizon	07/17/2019 (m m d d y y y y)	07/17/2019 (m m d d y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
____ 1/4 of ____ 1/4 of Section ____, T____ N, R____
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E ____ Feet ☐ S ____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee		Milwaukee

Sample Number and Type	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
VP-1 0-5'	2' / 5'	X ↓	0	3" Crushed gravel 1' Stiff brown clay. Rest Sand & gravel, fine to coarse, ¼.				0-2 0.0 2-4 3.5 4-6 2.4		D ↓				
VP-2 5-10'	2' / 5'	X ↓	5	1' Sand & gravel, fine to coarse, ¼. Rest Stiff brown clay w/ trace coarse, angular gravel.				6-8 0.4 8-10 1.0		M ↓				
VP-3 10-15'	4' / 5'	X ↓	10	All Stiff gray clay, Dry.				10-12 1.9 12-14 0.3 14-16 0.1		D ↓				
			15											

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

Signature _____ Firm _____

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SP-15

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	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP-4 15-20'	3.5' 5"	← X	15	±11 stiff gray clay, Dry.				16-18 ϕ.2 18-20 ϕ.2		D ←				
			20	G.O.B. @ 20' bgs.										

State of Wisconsin
Department of Natural Resources

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

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

Page 1 of 1

Facility/Project Name: Van Buren	License/Permit/Monitoring Number	Boring Number: SP-16	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Greg Last Name: Wiesler — Firm: Horizon	Date Drilling Started: 07/17/2019	Date Drilling Completed: 07/17/2019	Drilling Method: Direct Push
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: ____ Feet MSL	Surface Elevation: ____ Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane ____ N, ____ E — ____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N ☐ E ____ Feet ☐ S ____ Feet ☐ W	
Facility ID	County: Milwaukee	County Code	Civil Town/City/or Village: Milwaukee		

Sample Number and Type	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
GP-1 0-5	1' / 5'	X ↓	0	2" crushed asphalt. Rest Brown, stiff clay.				0-2 Φ.1 2-4 Φ.1 4-6 Φ.3		D ↓				Sampled 2-4, 8-10 and 16-18 for VOCs.
GP-2 5-10	3' / 5'	X ↓	5	±11 Brown, stiff clay w/ some med to coarse, angular gravel				6-8 Φ.1 8-10 Φ.1		D ↓				
GP-3 10-15	4' / 5'	X ↓	10	3'9" Brown, stiff clay w/ some med to coarse, angular gravel. Rest Soft brown silt w/ clay and some fine gravel.				0-10 Φ.2 12-14 Φ.2 14-16 ΦA		M ↓				
GP-4 15-20'	5' / 5'	X ↓	15	±11 Brown, stiff clay w/ some med to coarse, angular gravel.				16-18 Φ.2 18-20 Φ.1		D ↓				
			20	E.O.B. @ 20' bgs										

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

Signature _____ Firm _____ Engineer

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State of Wisconsin
Department of Natural Resources

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

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

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Van Buren		SP-17

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Greg Last Name: West Firm: Horizon	07-17-2019 (m m d d y y y y)	07-17-2019 (m m d d y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2 inches

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

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee		Milwaukee

Sample Number and Type	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
GP-1 0-5	1' / 5'	X L	0	A-11 crushed gravel w/ some clay.				0-2 0.0 2-4 0.0 4-6 0.0		D L				Sampled 2-4, 8-10, and 14-16 for VOCs.
GP-2 5-10	2.5' / 5'	X L	5	A-11 crumbly brown clay. Dry. Some gray and white coarse gravel angular.				6-8 0.0 8-10 0.1		D L				
GP-3 10-15	5' / 5'	X L	10	A-11 crumbly brown clay, Some gray and white coarse gravel, angular				10-12 0.1 12-14 0.1 4-6 0.1		M L				
GP-4 15-20	4.5' / 5'	X L	15	3.5' crumbly brown clay. Some gray and white coarse gravel, angular. Rest brown to reddish silt and clay w/ some fine to coarse sand and fine to coarse, S, gravel.				16-18 0.1 18-20 0.1		M L				

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

Signature _____ Firm _____ Engineering

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State of Wisconsin
Department of Natural Resources

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

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

Facility/Project Name: Van Buren	License/Permit/Monitoring Number:	Boring Number: SP-18	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Greg Last Name: Wester — Firm: Horizon	Date Drilling Started: 07/17/2019 (mm dd yyyy)	Date Drilling Completed: 07/17/2019 (mm dd yyyy)	Drilling Method: Direct Push
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL
Surface Elevation: _____ Feet MSL	Borehole Diameter: 0 inches		
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W	
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			
Facility ID	County: Milwaukee	County Code	Civil Town/City/ or Village: Milwaukee

Sample Number and Type	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
GP-1 0-5	24/5	X ↓	0	2" crushed concrete Base Medium plasticity, 2" ribbon brown clay.				0-2 Φ.0 2-4 Φ.0 4-6 Φ.1		D ↓				Sampled 2-4 8-10 and 16-18 for VOCs
GP-2 5-10	24/5	X ↓	5	All stiff brown clay, Dry.				6-8 Φ.5 8-10 Φ.3		D ↓				
GP-3 10-15	36/5	X ↓	10	6" Stiff brown clay. Dry. 1' Brown, tacky clay w/ some coarse sand, minimal ribbon. Base Dry crumbly brownish clay w/ some white gravel.				10-12 Φ.1 12-14 Φ.1 14-16 Φ.4		D to M ↓				
			15											

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

Signature: [signature] Firm: KEC Engineering

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SP-18

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	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP-4 15-20'	3' 5'	↓	0	All Dry crumbly, brownish clay w/ some white gravel				16-18 ϕ.2 18-↓ ϕ.1		D ↓				
			20	E.O.B. @ 20' bgs										

State of Wisconsin
Department of Natural Resources

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

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

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Van Buren		SP-19

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Grey Last Name: Waste Firm: Horizon	07/17/2019 (m m d d y y y y)	07/17/2019 (m m d d y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2 inches

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

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee		Milwaukee

Sample Number and Type	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
GP-1 0-5	2' 5'	X ↓	0	3" Crushed asphalt, sand & gravel. Rest Brown stiff clay.				0-2 ϕ.2 2-4 ϕ.1 4-6 ϕ.1		D L				Sampled 2-4, 8-10 and 16-18 for VOCs.
GP-2 5-10	2' 5'	X L	5	1' Brown Stiff clay. 2" Crushed clear gravel w/ crushed cream city brick. Rest Brownish, tacky, clay, ~3" ribbon.				6-8 ϕ.2 8-10 ϕ.2		M L				
			10											

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

Signature _____ Firm CGI Engineering

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SP-19

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	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP-3 10-15	20 5	X ↓	10	All stiff brown clay. Dry.				10-12 Ø.1 12-14 Ø.2		D ↓				
GP-4 15-20	4' 5'	X ↓	15	All stiff brown clay. Dry.				14-16 Ø.3 16-18 Ø.1 18-20 Ø.1		D ↓				
			20	G.O.B. @ 20' bgs										

State of Wisconsin
Department of Natural Resources

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

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

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Van Buren		SP-10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Greg Last Name: Wiste Firm: Horizon	07/17/2019 (m m d d y y y y)	07/17/2019 (m m d d y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2 inches

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

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee		Milwaukee

Sample Number and Type	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
GP-1 0-5'	2' 5'/5	X ↓	0	2" Crushed asphalt. 6" Sand & gravel. Dest Stiff brown clay. Small (~1/2") organic layer 3" from top of "rest".				0-2 0.9 2-4 2.1 4-6 3.9		D ↓				Sampled 16-18 for VOC
GP-2 5-10	5'/5'	X ↓	5	4" Stiff to mildly stiff brown clay. Small				6-8 0.7 8-10 2.3		M ↓				
GP-3 10-15	5'/5'	X ↓	10	1.5' Gray sand. Wet. 1.5' Brown stiff clay, wet. Rest Brown stiff clay. Dry.				10-12 6.3 12-14 0.3 14-16 0.7		W to D ↓				

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

Signature _____ Firm KE Engineering

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SP-20

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	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
VP-4 15-20	3.5' 5'	↓	0	1.5' Stiff brown clay. Dry. Rest				16-18 Ø.4 18-20 1.7		D				
				Dry, crumbly clay. Trace fine to coarse, angular gravel.										
			20	T.D. B. @ 20' bgs										

State of Wisconsin
Department of Natural Resources

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

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Van Buren		SP-21

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Greg Last Name: Wester Firm: Horizon	07/17/2019 (m m d d y y y y)	07/17/2019 (m m d d y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2 inches

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

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee		Milwaukee

Sample Number and Type	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
GP-1 0-5'	5' 5'	X ↓	0	3" Crushed asphalt. 3" Sand & gravel, brown Odor from 2-4'. Rest Stiff brown clay.				0-2 20 2-4 365 4-6 21		D F				Sampled 16-18' for VOCs.
GP-2 5-10	5' 5'	X ↓	5	All Stiff brown clay. ~2" ribbon.				6-8 14 8-10 1.7		D F				
GP-3 10-15		X ↓	10	2.5' Fine to coarse sand, Gray, 2" Gray & black medium sand. Rest Brown crumbly, ~~wet~~ moist clay w/ sand and coarse gravel				10-12 10 12-14 3.2 14-16 1.3		M ↓				

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

Signature _____ Firm KEI Engineering

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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Sample				Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet						Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
GP-4 15-20'	31 5	X ↓	0	All coarse sand, gray.				16-18 Ø.2 18-20 Ø.1		W L				
			20	G.O.B.@ 20' bgs										

State of Wisconsin
Department of Natural Resources

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

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

Page 1 of 1

Facility/Project Name: Van Buren	License/Permit/Monitoring Number:	Boring Number: SP-22	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Greg Last Name: Weste — Firm: Holt Zon	Date Drilling Started: 07/17/2019	Date Drilling Completed: 07/17/2019	Drilling Method: Direct Push
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL
Surface Elevation: _____ Feet MSL	Borehole Diameter: 2 inches		
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E — ____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N ☐ E ____ Feet ☐ S ____ Feet ☐ W	
Facility ID	County: Milwaukee	County Code	Civil Town/ City/ or Village: Milwaukee

Sample Number and Type	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
GP-1 0-5	2.5 / 5	X ↓	0	3" crushed asphalt. 1' Brown clay w/ trace wood and trace angular gravel, fine to medium				0-2 2.0 2-4 12.1 4-6 9.1		D ↓				Sampled 8-10 for VOCs.
GP-2 5-10	5 / 5	X ↓	5	~11 Brown stiff clay.				6-8 9.7 8-10 9.4		D ↓				
			10	G.O.B, refusal @ 10' bgs.										

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

Signature _____ Firm KEY Engineering

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State of Wisconsin
Department of Natural Resources

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

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

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Van Buren		SP-23

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Greg Last Name: Wastin Firm: Horizon	07/17/2019	07/17/2019	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	2 inches

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

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee		Milwaukee

Sample Number and Type	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
GP-1 0-5	41 / 5'	X ↓	0	2" crushed asphalt. Rest Stiff brown clay				0-2 0.4 2-4 0.0 4-6 0.7		D ↓				Sampled 16-18 for VOCs.
GP-2 5-10	4 / 5	X ↓	5	3" Stiff brown clay. Rest Gray, very stiff clay.				6-8 0.1 6-10 4.0		M to W ↓				
GP-3 10-15	5 / 5	X ↓	10	2" Gray, fine to coarse sand. Rest Brownish/grayish, stiff wet clay.				10-12 0.6 12-14 2.6 16-18 0.3		W ↓				
			15											

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

Signature _____ Firm KEY Engineering

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SP-23

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	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP-4 15-20'	5'/5'	X	15	Fill Gray fine to coarse sand. wet. slight odor.				16-18 @3 18-20 @ 1		W				
GP-5 20-25'	5'/5'	V	20	Fill Gray fine to coarse sand. wet. slight odor. Dust Gray stiff clay. wet.				20-22 @1 22-24 @1 24-25 @15		W				
			25	E.O.B. @ 25' bgs										

State of Wisconsin
Department of Natural Resources

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

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

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Van Buren		SP-24

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Greg Last Name: Westra Firm: Horizon	07/17/2019 (m m d d y y y y)	07/17/2019 (m m d d y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2 inches

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

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee		Milwaukee

Sample Number and Type	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
GP-1 0-5	4' 5'	X ↓	0	A-11 Brownish/tan clay w/ some gray clay and silt.				0-2 0.0 2-4 0.0 4-6 0.0		D ↓				Sampled 2-4 and 8-10 for VCs.
GP-2 5-10	5' 5'	X ↓	5	A-11 Brownish clay.				6-8 0.0 8-10 0.0		M ↓				
			10	E.O.B. @ 10' bgs										

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

Signature _____ Firm KEY Engineering

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State of Wisconsin
Department of Natural Resources

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

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☑ Other ☐ _____

Page 1 of 1

Facility/Project Name: Van Buren	License/Permit/Monitoring Number:	Boring Number: SP-25
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Greg Last Name: Wesler — Firm: Horizon	Date Drilling Started: 07/17/2019 (m m d d y y y y)	Date Drilling Completed: 07/17/2019 (m m d d y y y y) — Drilling Method: Direct Push
WI Unique Well No.: _ _ _ _ _ _ — DNR Well ID No.: _ _ _ _ — Well Name:	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL — Borehole Diameter: 3 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E — _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S — _____ Feet ☐ E ☐ W
Facility ID:	County: Milwaukee — County Code:	Civil Town/City/or Village: Milwaukee

Sample Number and Type	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
GP-1 0-5	1' 5"	X ↓	0	2" crushed asphalt. 6" Sand and gravel, fine to coarse, A. Rest Gray soft clay w/ silt and fine to medium sand.				0-2 0.0 2-4 0.0 4-6 0.0		↑				Sampled 8-10 for VOCs.
GP-2 5-10	2' 5"	X ↓	5	All Brown clay, stiff, no ribbon				6-8 0.0 8-10 0.0		M				
			10	E.O.B. @ 10' bgs										

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

Signature _____ Firm CEY Engineering

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State of Wisconsin
Department of Natural Resources

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

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

Page 1 of 1

Facility/Project Name: Van Buren	License/Permit/Monitoring Number:	Boring Number: SP-26	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Trey Last Name: Wester — Firm: Horizon	Date Drilling Started: 07/17/2019	Date Drilling Completed: 07/17/2019	Drilling Method: Direct Push
WI Unique Well No.:	DNR Well ID No.:	Well Name:	Final Static Water Level: Feet MSL
Surface Elevation: Feet MSL	Borehole Diameter: 2 inches		
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N ☐ E ____ Feet ☐ S ____ Feet ☐ W	
____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____			
Facility ID	County: Milwaukee	County Code	Civil Town/City/or Village: Milwaukee

Sample Number and Type	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
VP-1 0-4	2.5/4		0	1' crushed asphalt, sand and gravel. Dest Soft to stiff clay, brown w/ some fine to med sand. up to 2" ribbon.				0-2 0.0 2-4 0.2		D to M				Sampled 2-4 for VOC
			4	E.O.B. @ 4' bgs										

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

Signature: _____ Firm: CGY Engineering

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State of Wisconsin
Department of Natural Resources

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

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

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Van Buren		SP-27

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Greg Last Name: Wester Firm: Horizon	07/17/2019 (m m d d y y y y)	07/17/2019 (m m d d y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E
_____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee		Milwaukee

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
SP-1 0-4	2' 4'	X ↓	0	2" Stiff brown clay, 2" Crushed clear gravel. Rest Sand and gravel, brown, gravel is chiefly and fine to coarse, and angular				0-2 0.4 2-4 0.8		D ↓				Sampled 2-4 for VOCs
			4	E.O.B. @ 4' bgs										

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

Signature _____ Firm CEI Engineering

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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 #
Milwaukee		

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 North Van Buren St.
Well City, Village or Town: Milwaukee
Well ZIP Code: 53202
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name:
Facility ID (FID or PWS):
License/Permit/Monitoring #: SP-11
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:
City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	—

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

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

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): Gravity

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	0.22 ft³	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
RET Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee		

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.

Well City, Village or Town: Milwaukee

Well ZIP Code: 53202

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name:

Facility ID (FID or PWS):

License/Permit/Monitoring #: SP-12

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner:

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	—

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	—

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

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

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): Gravity

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	0.22 ft³	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
KEI Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee		

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.

Well City, Village or Town: Milwaukee

Well ZIP Code: 53202

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name:

Facility ID (FID or PWS):

License/Permit/Monitoring #: SP-13

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner:

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	—

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	—

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

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

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): Gravity

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" Benbrite chips	Surface	10	0.2243	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
CEI Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee	_ _ _ _ _ _ _	

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.
Well City, Village or Town: Milwaukee
Well ZIP Code: 53202
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well: _ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name:
Facility ID (FID or PWS):
License/Permit/Monitoring #: SP-15
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:
City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
20	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	—

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

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

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): Gravity

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	20	0.149 ft³	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
YEI Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee		

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.

Well City, Village or Town: Milwaukee | Well ZIP Code: 53202

Subdivision Name | Lot #

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

2. Facility / Owner Information

Facility Name

Facility ID (FID or PWS)

License/Permit/Monitoring #: SP-16

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
20	—

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	—

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

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

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): Gravity

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	20	0.94 ft³	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
KEI Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee	_ _ _ _ _ _ _	

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.
Well City, Village or Town: Milwaukee
Well ZIP Code: 53202
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well: _ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name:
Facility ID (FID or PWS):
License/Permit/Monitoring #: SP-17
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:
City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
20	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	—

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

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

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): Gravity

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	20	0.44 cf	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
LEI Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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)

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☐ **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 #
Milwaukee	_ _ _ _ _ _ _	

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.
Well City, Village or Town: Milwaukee
Well ZIP Code: 53202
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well: _ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name:
Facility ID (FID or PWS):
License/Permit/Monitoring #: SP-18
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:
City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
20	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	—

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

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

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): Gravity

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	90	0.44 ft³	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
LEI Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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)

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☐ **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 #
Milwaukee		

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.
Well City, Village or Town: Milwaukee
Well ZIP Code: 53202
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name:
Facility ID (FID or PWS):
License/Permit/Monitoring #: SP-19
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:
City of Present Owner: State: ZIP Code:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
20	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	—

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

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

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): gravity

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	20	0.44 ft³	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
KEI Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St. Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee		

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.

Well City, Village or Town: Milwaukee

Well ZIP Code: 53202

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name:

Facility ID (FID or PWS):

License/Permit/Monitoring #: SP-20

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner:

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): Direct Push

Formation Type:

☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
20	—

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	—

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

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

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): gravity

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	20	0.44 Yd³	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
LEI Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee	_ _ _ _ _	

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.

Well City, Village or Town: Milwaukee

Well ZIP Code: 53202

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well: _ _ _ _ _

2. Facility / Owner Information

Facility Name:

Facility ID (FID or PWS):

License/Permit/Monitoring #: SP-21

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner:

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
20	1
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	20

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

If yes, to what depth (feet)? —

Depth to Water (feet): —

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): Gravity

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

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	20	0.44 43	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
KEI Engineering		07/18/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee		

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.

Well City, Village or Town: Milwaukee | Well ZIP Code: 53202

Subdivision Name | Lot #

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

2. Facility / Owner Information

Facility Name

Facility ID (FID or PWS)

License/Permit/Monitoring #: SP-22

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): Direct Push

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	—

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

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

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): gravity

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	0.22 ft³	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
KEC Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee	_ _ _ _ _ _	

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.
Well City, Village or Town: Milwaukee
Well ZIP Code: 53202
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name:
Facility ID (FID or PWS):
License/Permit/Monitoring #: SP-23
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:
City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
25	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	—

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

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

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): Gravity

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	25	0.55 ft³	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
KEI Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee		

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N Van Buren St.
Well City, Village or Town: Milwaukee
Well ZIP Code: 53202
Subdivision Name:
Lot #:

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

2. Facility / Owner Information

Facility Name:
Facility ID (FID or PWS):
License/Permit/Monitoring #: SP-24
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:
City of Present Owner: State: ZIP Code:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	—

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

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

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): gravity

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	0.22 ft³	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
KEI Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee	_ _ _ _ _ _ _	

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.

Well City, Village or Town: Milwaukee
Well ZIP Code: 53202

Subdivision Name:
Lot #:

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

2. Facility / Owner Information

Facility Name:
Facility ID (FID or PWS):
License/Permit/Monitoring #: SP-25
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:
City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	—

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

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

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): gravity

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	0.22 ft³	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
LEI Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee	_ _ _ _ _	

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.

Well City, Village or Town: Milwaukee | Well ZIP Code: 53202

Subdivision Name | Lot #

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

2. Facility / Owner Information

Facility Name

Facility ID (FID or PWS)

License/Permit/Monitoring #: SP-26

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
4	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	—

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

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

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): gravity

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	4	0.088 cy	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
YEL Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

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 #
Milwaukee	_ _ _ _ _ _	

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

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 1681 N. Van Buren St.
Well City, Village or Town: Milwaukee
Well ZIP Code: 53202
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name:
Facility ID (FID or PWS):
License/Permit/Monitoring #: SP-27
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:
City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 07/17/2019
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
4	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	—

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

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

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): gravity

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	4	0.088 ft3	—

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
YEI Engineering		07/17/2019

Street or Route	Telephone Number
735 N Water St, Suite 510	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		07/30/2019

DNR Use Only

Date Received	Noted By

Comments:

Appendix 4

MW 54-S

County Milwaukee Twp. Milwaukee Sec. city

(Office Record—Do not fill in)

SW/ SW SW NW, Sec 21, T 7N R 22E ✓ ML-39-G

TO THE WISCONSIN STATE BOARD OF HEALTH, WELL DRILLING DIVISION, MADISON, WIS.

WELL LOG PREMISES DIAGRAM, and REPORT

For Official Record of the Board

(TO BE USED FOR THAT PURPOSE ONLY)

Owner Albert A Trostel Tanning Co. Driller Layne Northwest Co.

(If a joint ownership give name of responsible official. Also name of each individual holding an interest. Use a separate sheet and attach hereto.)

Address 1029 W. Wells St.

Address Milwaukee (City, village, township, county) Milwaukee Wisconsin

Date of Report October 25 1937

1776 No. Commerce St Registration No. 29

Give below the location of the property on which well is drilled.

If incorporated village or city: Milwaukee (Name) 1776 (Lot) (Blk.) No. Commerce (Street and No.)

If unincorporated hamlet ..... (Name) (County) (Twp.) (Highway)

If Lake Shore Plat ..... (Name of Plat) (Lake) (Lot) (Blk.) (Street)

If Farm ..... (County) (Twp.) (Sec.) (Highway)

If School ..... (County) (Twp.) (Sec.) (District)

If other public building ..... (Kind) (County) (Twp.) (Sec.)

Miscellaneous ..... (Kind) (County) (Twp.) (Sec.)

WELL LOG and REPORT

Kind of casing and liner in feet. Kind of shoe. Indicate grout, screen, seal, etc.	WELL DIAGRAM Vertical Lines = in. Dia. Horizontal Lines = ft. Depth	Give depth of formations in feet. State if dry or water bearing.	Record of FINAL Pumping Test
58' of 16" O.D. Steel Drive Pipe with forged steel drive shoe.	16" Pipe	Sand, cinders & Boards 12 Quick sand & gravel 25 Hard Pan 35 Sand 39 Hard Pan 44 50 58 75	Duration of test. Hours 12 Pumping Rate. G. P. M. 1100 Depth of pump in well. Ft. 62'-4" Standing water-level (from surface.) Ft. 26' Water level when pumping Ft. 44
	16" Open Hole	Limestone 100	Water. End of test. Check: Clear ..... Cloudy ..... Turbid .....
		Shale 133 138 150	Was well sterilized before test? Yes ✓ No ..... Date Sept 24/1937
		Limestone 200 225	To which Laboratory was sample sent? ..... Date .....
	12 1/2" Open Hole	400	Was the well sealed on completion? Yes ✓ No .....
196'-10" of 10" I.D. Steel Liner from 523'-2" to 720'	10" Pipe 523 540 620 720	Lime with streaks of shale 540 Shale 620 720	How high did you leave casing above grade? Base 6"
	9" Open Hole 800 970	Limestone 800 Sandstone & Limestone 970	Well was completed Sept 9 1937
	1200	1190 Sandstone 1200 Sand & Lime 1250 Sandstone 1720	Well Driller: Layne Nw. Co. Signature. [illegible] (Be sure to complete the report on the reverse side)

ML-138-G

JUN 24 1942

WELL CONSTRUCTION REPORT
WISCONSIN STATE BOARD OF HEALTH
WELL DRILLING DIVISION

Note: Section 32 of the Wisconsin Well Drilling Sanitary Code, having the force and effect of law, provides that within thirty days after completion of every well the driller shall submit a report covering all essential details of construction to the State Board of Health on a form provided by the Board.

Owner A. F. Gallun Sons Corp. Driller Jos. Egerer

Street or RFD 1818 N Water St. Post Office 1012 N 3rd St. Milwaukee, Wis.

Post Office Milwaukee, Wis. Date 6/1/42 Permit No. 21

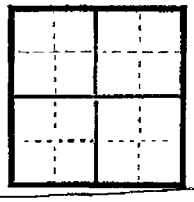
LOCATION OF PREMISES

Milwaukee (County) Milwaukee, Wis. (Town)

1918 N Water St.
Describe further by subdivision, plat, district, lake, lot,

block, nearest principal highway, etc., whichever apply.

The square below represents a section of land divided into 40 acre tracts. Mark the position of the premises in the section.



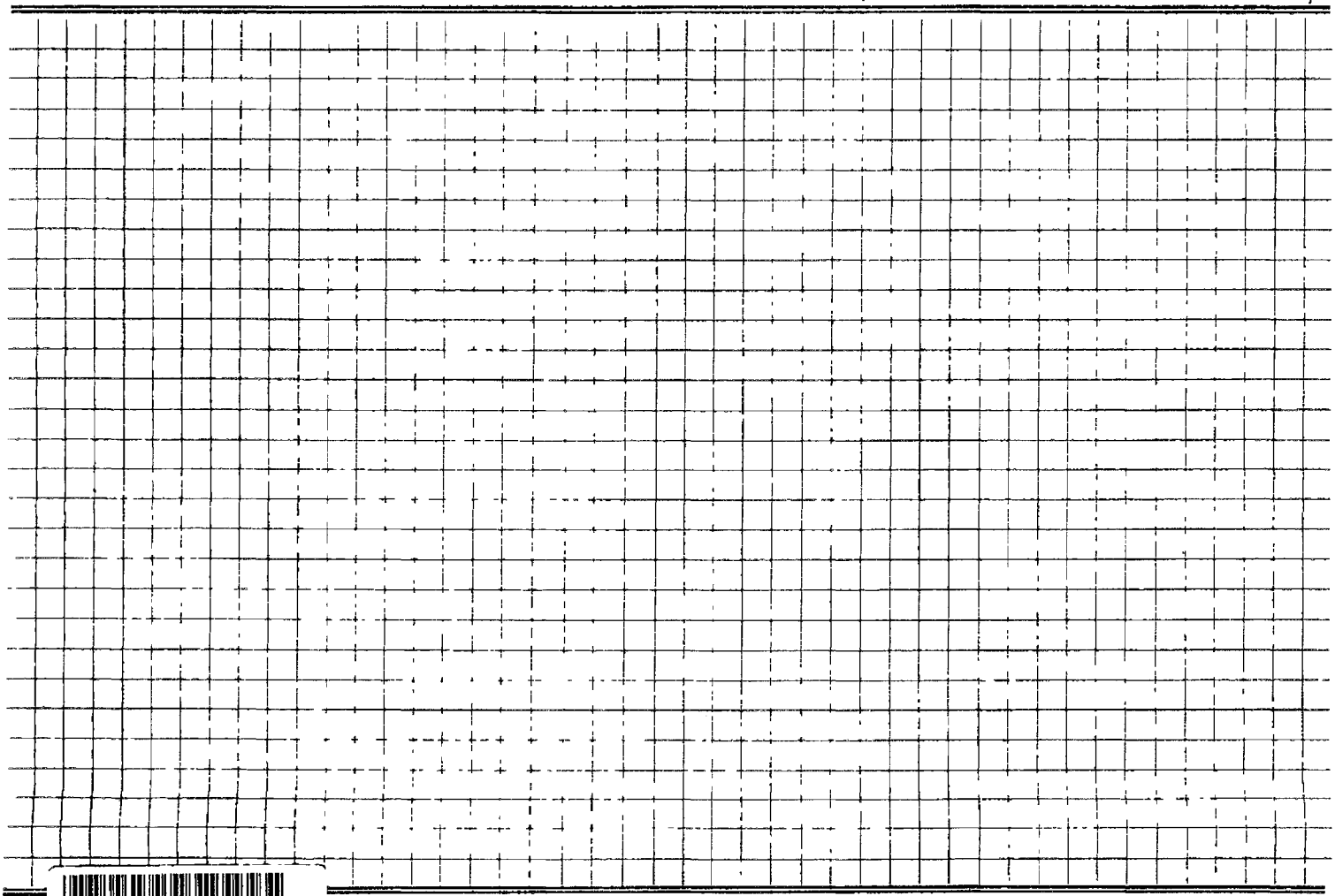
SE, NW,
Sec. 21
Twp. 7 N
Range 22 E W

NE, NW, NE, SW, SE, NW, Sec. 21

DIAGRAM OF PREMISES

See discussion and illustration in Part III Well Drilling Code. In making the diagram in the space below consider 10 ft. as the distance between lines. Be sure to indicate NORTH.

DNR permanent well # 54808



may be obtained in lots of 12 for 25¢. Send remittance with order to State Board of Health, Well s.

plot

Surface Water Data Viewer Map

Legend

- Wetland Identifications and Confirmations
- Wetland Class Points
  - Dammed pond
  - Excavated pond
  - Filled excavated pond
  - Filled/drained wetland
  - Wetland too small to delineate
- Filled Points
- Wetland Class Areas
  - Wetland
  - Upland
- Filled Areas
- Wetland Class Points
  - Dammed pond
  - Excavated pond
  - Filled excavated pond
  - Filled/drained wetland
  - Wetland too small to delineate
- Filled Points
- Wetland Class Areas
  - Wetland
  - Upland
- Filled Areas
- NRCS Wetspots
- Maximum Extent Wetland Indicators
- Intermittent Streams
- 24K Hydrography Streams and Rivers
- 24K Hydrography Lakes and Open Water
- Municipality
- State Boundaries
- County Boundaries

Notes

0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Waukesha Service Center
141 NW Barstow, Room 180
Waukesha, WI 53188

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

December 16, 2015

WIC-SE-2015-41-03818

The Sigma Group
James Leedom
1300 West Canal Street
Milwaukee, WI 53233

RE: Wetland Delineation Report for an approximately 3 acre project area (1701 N. Water Street) located in the SW1/4 of the NW1/4 of Section 21, Township 7 North, Range 22 East, City of Milwaukee, Milwaukee County

Dear Mr. Leedom:

We have received and reviewed the wetland delineation report prepared for the above mentioned site by OTIE. This letter will serve as confirmation that the wetland boundaries as shown on the attached wetland delineation map are acceptable. This finding is based upon a 10/23/2015 field visit. Any filling or grading within these areas will require DNR approvals. Our wetland confirmation is valid for five years unless altered site conditions warrant a new wetland delineation be conducted. Be sure to send a copy of the report, as well as any approved revisions, to the U.S. Army Corps of Engineers.

In order to comply with Chapter 23.321, State Statutes, please supply the department with an electronic file, in CAD or GIS format, of all wetland boundaries delineated within the project area. The electronic file should utilize a State Plane Projection, and be overlain onto recent aerial photography. If a different projection system is used, please indicate what system the data are projected to. Please send these data to Calvin Lawrence (608-266-0756, or calvin.lawrence@wisconsin.gov).

There is a navigable stream (Milwaukee River) identified adjacent to the property. DNR Chapter 30 permits may be needed if earthwork (filling, dredging, etc.) or structures (culverts, bridges, erosion control, etc.) are proposed in or adjacent to the waterway.

If you are planning development on the property, you are required to avoid take of endangered and threatened species, or obtain an incidental take authorization, to comply with the state's Endangered Species Law. To insure compliance with the law, you should submit an endangered resources review form (Form 1700-047), available at http://dnr.wi.gov/topic/ERReview/Review.html. The Endangered Resources Program will provide a review response letter identifying any endangered and threatened species and any conditions that must be followed to address potential incidental take.

In addition to contacting WDNR, be sure to contact your local zoning office and U.S. Army Corps of Engineers to determine if any local or federal permits may be required for your project.

If you have any questions, please contact me at (262) 574-2115 or email Neil.Molstad@wisconsin.gov.

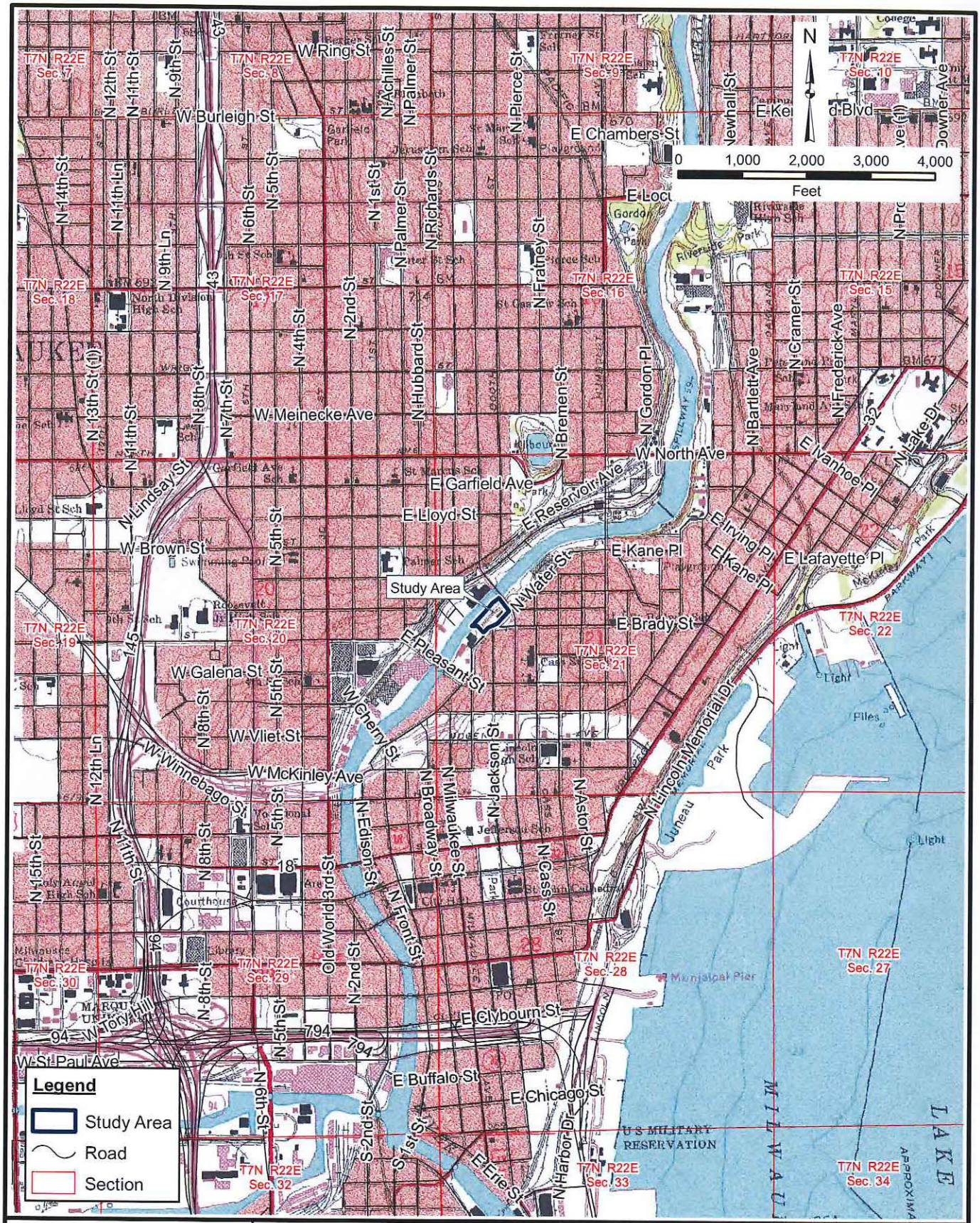
Sincerely,

Neil Molstad
Wetland Identification Specialist

cc: Marie Kopka, Project Manager, U.S. Army Corps of Engineers
Thomas Mishefske, Department of Neighborhood Services, City of Milwaukee
Scott Horzen, OTIE
Wayne Wiertzema, Wangard Partners
April Marcangeli, DNR Water Management Specialist
Intake, DNR Stormwater SE Region
Chris Jors, SEWRPC

Attachments:

Project Area Location Map
Wetland Delineation Map for the Project Area

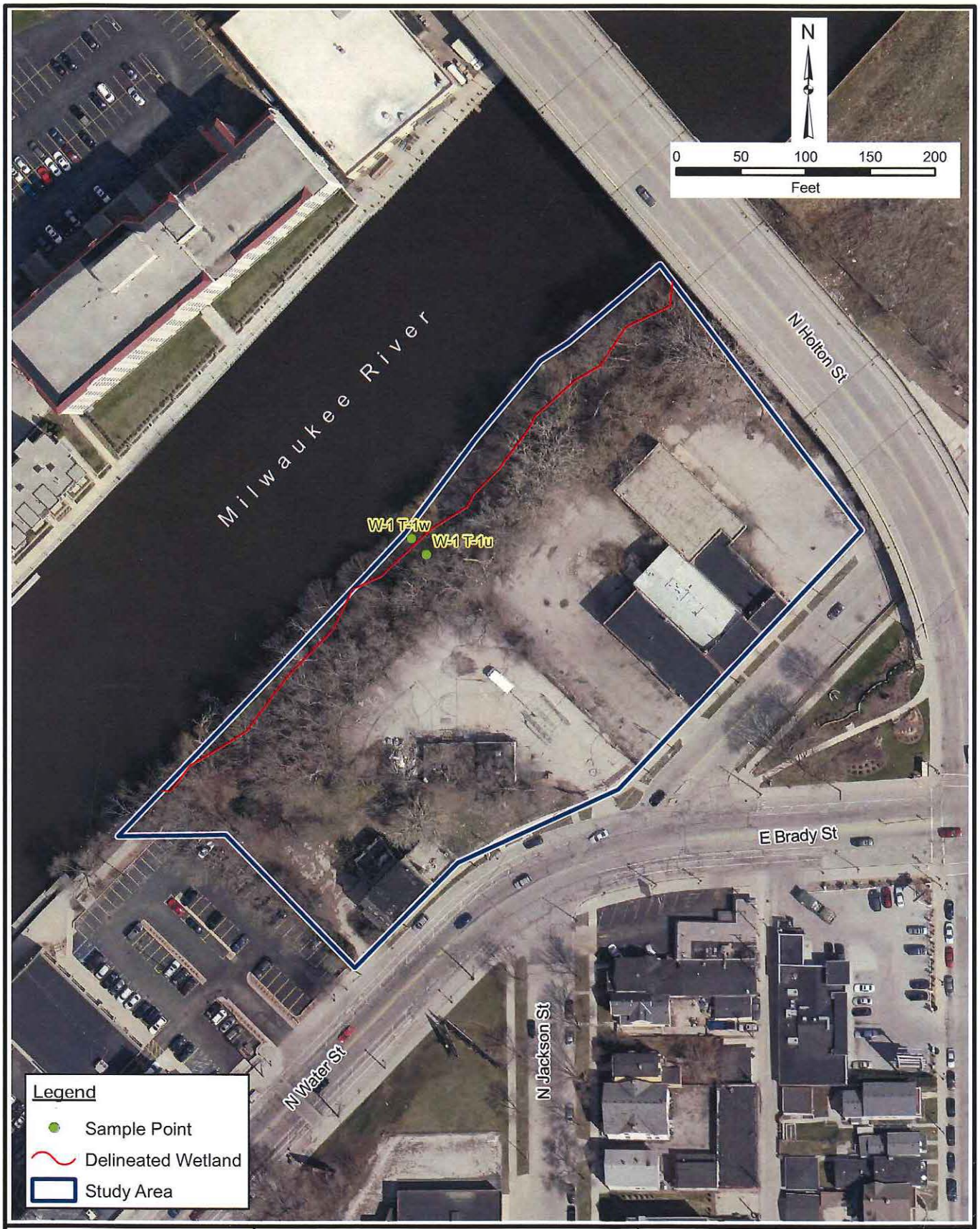


OTIE
Oneida Total Integrated Enterprises

FIGURE 1
PROJECT LOCATION MAP

Brady St. and Water St.
City of Milwaukee
Milwaukee County, Wisconsin

C:\GIS_Projects\OTIE_Brady_and_WaterSt\Figure 1 - Project Location Map.mxd



OTIE
Oneida Total Integrated Enterprises

FIGURE 2
STUDY AREA LIMITS

Brady St. and Water St.
City of Milwaukee
Milwaukee County, Wisconsin

C:\GIS_Projects\OTIE_Brady_and_WaterSt\Figure 2 - Study Area Limits.mxd

Appendix 5

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-166949-1
Client Project/Site: 1681 N. Van Buren - 1604-1011-00002

For:
Key Engineering Group, Ltd.
735 North Water Street
Suite 510
Milwaukee, Wisconsin 53202

Attn: Toni Schoen

Authorized for release by:
7/30/2019 6:22:10 PM

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

Table of Contents

Job ID: 500-166949-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-166949-1

Comments
No additional comments.

Receipt
The samples were received on 7/19/2019 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0º C.

GC/MS VOA
The extraction blank for 496278 contained Naphthalene. Naphthalene was above the method detection limit (MDL) but below the reporting limit (RL). The method blank associated with analytical batch 496533 has detect for Naphthalene above the method detection limit (MDL) but below the reporting limit (RL). This target analyte concentration were detected in the associated samples; therefore, re-analysis of samples was not performed. Naphthalene results have been flagged in the associated samples with a "B" flag denote the presence in the blank and possible lab contamination.

The method blank for 496533 contained Naphthalene above the method detection limit and below the Reporting limit (RL). This target analyte concentration were detected in the associated samples; therefore, re-analysis of samples was not performed. Naphthalene results have been flagged in the associated samples with a "B" flag denote the presence in the blank and possible lab contamination.

The laboratory control sample (LCS) for 496533 recovered outside control limits for the following analytes: Dibromometane, Bromoform and 1,2-Dibromo-3-chloropropane. These analytes were biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for 496764 recovered outside control limits for the following analytes: Bromoform and 1,2-Dibromo-3-chloropropane. These analytes were biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The extraction LCS associated with preparation batch 496278 has Bromoform, Dibromomethane and 1,2-Dibromo-3-Chloropropane recoveries above control limits. The instrument LCS associated with analytical batch 496533 had Bromoform, Dibromomethane and 1,2-Dibromo-3-Chloropropane recoveries above control limits. These analytes were non-detect in the samples; therefore re-analysis was not performed. The data have been reported and qualified. SP20 16-18 (500-166949-1), SP11 1-3 (500-166949-2), SP12 8-10 (500-166949-3), SP13 7-9 (500-166949-4), SP15 2-4 (500-166949-5), SP16 2-4 (500-166949-6), SP17 2-4 (500-166949-7), SP18 2-4 (500-166949-8), SP19 2-4 (500-166949-9), SP11 7-9 (500-166949-10), SP15 8-10 (500-166949-11), SP15 16-18 (500-166949-12), SP16 8-10 (500-166949-13), SP16 16-18 (500-166949-14) and SP17 8-10 (500-166949-15)

The extraction LCS associated with preparation batch 496279 has Bromoform and 1,2-Dibromo-3-Chloropropane recoveries above control limits. The instrument LCS associated with analytical batch 496764 had Bromoform and 1,2-Dibromo-3-Chloropropane recoveries above control limits. These analytes were non-detect in the samples; therefore re-analysis was not performed. The data have been reported and qualified. SP17 16-18 (500-166949-16), SP18 8-10 (500-166949-17), SP18 16-18 (500-166949-18), SP19 8-10 (500-166949-19), SP19 16-18 (500-166949-20), SP22 8-10 (500-166949-21), SP23 16-18 (500-166949-22), SP24 2-4 (500-166949-23), SP24 8-10 (500-166949-24), SP25 8-10 (500-166949-25), SP26 2-4 (500-166949-26), SP27 2-4 (500-166949-27) and SP21 16-18 (500-166949-28)

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 496533 were outside control limits for Bromoform, Dibromomethane and 1,2-Dibromo-3-Chloropropane. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was outside acceptance limits for Bromoform, Dibromomethane and 1,2-Dibromo-3-Chloropropane.These analytes were non-detect in the samples; therefore re-analysis was not performed. The data have been reported and qualified.

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.

Detection Summary

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP20 16-18 — Lab Sample ID: 500-166949-1

No Detections.

Client Sample ID: SP11 1-3 — Lab Sample ID: 500-166949-2

No Detections.

Client Sample ID: SP12 8-10 — Lab Sample ID: 500-166949-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.10	B	0.058	0.019	mg/Kg	50	☼	8260B	Total/NA
1,2,4-Trichlorobenzene	0.045	J	0.058	0.020	mg/Kg	50	☼	8260B	Total/NA

Client Sample ID: SP13 7-9 — Lab Sample ID: 500-166949-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.033	J B	0.059	0.020	mg/Kg	50	☼	8260B	Total/NA

Client Sample ID: SP15 2-4 — Lab Sample ID: 500-166949-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.021	J B	0.057	0.019	mg/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	6.4		0.057	0.021	mg/Kg	50	☼	8260B	Total/NA
Trichloroethene	0.28		0.028	0.0093	mg/Kg	50	☼	8260B	Total/NA

Client Sample ID: SP16 2-4 — Lab Sample ID: 500-166949-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.024	J B	0.061	0.020	mg/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	3.5		0.061	0.023	mg/Kg	50	☼	8260B	Total/NA

Client Sample ID: SP17 2-4 — Lab Sample ID: 500-166949-7

No Detections.

Client Sample ID: SP18 2-4 — Lab Sample ID: 500-166949-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.029	J B	0.070	0.023	mg/Kg	50	☼	8260B	Total/NA

Client Sample ID: SP19 2-4 — Lab Sample ID: 500-166949-9

No Detections.

Client Sample ID: SP11 7-9 — Lab Sample ID: 500-166949-10

No Detections.

Client Sample ID: SP15 8-10 — Lab Sample ID: 500-166949-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.3		0.057	0.021	mg/Kg	50	☼	8260B	Total/NA

Client Sample ID: SP15 16-18 — Lab Sample ID: 500-166949-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.5		0.060	0.022	mg/Kg	50	☼	8260B	Total/NA
Trichloroethene	0.083		0.030	0.0098	mg/Kg	50	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP16 8-10 — Lab Sample ID: 500-166949-13

No Detections.

Client Sample ID: SP16 16-18 — Lab Sample ID: 500-166949-14

No Detections.

Client Sample ID: SP17 8-10 — Lab Sample ID: 500-166949-15

No Detections.

Client Sample ID: SP17 16-18 — Lab Sample ID: 500-166949-16

No Detections.

Client Sample ID: SP18 8-10 — Lab Sample ID: 500-166949-17

No Detections.

Client Sample ID: SP18 16-18 — Lab Sample ID: 500-166949-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.031	J B	0.068	0.023	mg/Kg	50	☼	8260B	Total/NA

Client Sample ID: SP19 8-10 — Lab Sample ID: 500-166949-19

No Detections.

Client Sample ID: SP19 16-18 — Lab Sample ID: 500-166949-20

No Detections.

Client Sample ID: SP22 8-10 — Lab Sample ID: 500-166949-21

No Detections.

Client Sample ID: SP23 16-18 — Lab Sample ID: 500-166949-22

No Detections.

Client Sample ID: SP24 2-4 — Lab Sample ID: 500-166949-23

No Detections.

Client Sample ID: SP24 8-10 — Lab Sample ID: 500-166949-24

No Detections.

Client Sample ID: SP25 8-10 — Lab Sample ID: 500-166949-25

No Detections.

Client Sample ID: SP26 2-4 — Lab Sample ID: 500-166949-26

No Detections.

Client Sample ID: SP27 2-4 — Lab Sample ID: 500-166949-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.064		0.053	0.020	mg/Kg	50	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP21 16-18

Lab Sample ID: 500-166949-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.29		0.016	0.012	mg/Kg	50	☼	8260B	Total/NA
Naphthalene	0.036	J	0.065	0.022	mg/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	0.10		0.065	0.027	mg/Kg	50	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	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: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-166949-1	SP20 16-18	Solid	07/17/19 18:50	07/19/19 09:20	
500-166949-2	SP11 1-3	Solid	07/17/19 17:00	07/19/19 09:20	
500-166949-3	SP12 8-10	Solid	07/17/19 17:25	07/19/19 09:20	
500-166949-4	SP13 7-9	Solid	07/17/19 17:10	07/19/19 09:20	
500-166949-5	SP15 2-4	Solid	07/17/19 18:05	07/19/19 09:20	
500-166949-6	SP16 2-4	Solid	07/17/19 18:00	07/19/19 09:20	
500-166949-7	SP17 2-4	Solid	07/17/19 18:20	07/19/19 09:20	
500-166949-8	SP18 2-4	Solid	07/17/19 18:35	07/19/19 09:20	
500-166949-9	SP19 2-4	Solid	07/17/19 18:25	07/19/19 09:20	
500-166949-10	SP11 7-9	Solid	07/17/19 17:05	07/19/19 09:20	
500-166949-11	SP15 8-10	Solid	07/17/19 17:30	07/19/19 09:20	
500-166949-12	SP15 16-18	Solid	07/17/19 17:40	07/19/19 09:20	
500-166949-13	SP16 8-10	Solid	07/17/19 17:50	07/19/19 09:20	
500-166949-14	SP16 16-18	Solid	07/17/19 17:35	07/19/19 09:20	
500-166949-15	SP17 8-10	Solid	07/17/19 17:45	07/19/19 09:20	
500-166949-16	SP17 16-18	Solid	07/17/19 17:55	07/19/19 09:20	
500-166949-17	SP18 8-10	Solid	07/17/19 18:45	07/19/19 09:20	
500-166949-18	SP18 16-18	Solid	07/17/19 18:10	07/19/19 09:20	
500-166949-19	SP19 8-10	Solid	07/17/19 18:55	07/19/19 09:20	
500-166949-20	SP19 16-18	Solid	07/17/19 18:15	07/19/19 09:20	
500-166949-21	SP22 8-10	Solid	07/17/19 17:10	07/19/19 09:20	
500-166949-22	SP23 16-18	Solid	07/17/19 18:40	07/19/19 09:20	
500-166949-23	SP24 2-4	Solid	07/17/19 19:05	07/19/19 09:20	
500-166949-24	SP24 8-10	Solid	07/17/19 19:20	07/19/19 09:20	
500-166949-25	SP25 8-10	Solid	07/17/19 19:00	07/19/19 09:20	
500-166949-26	SP26 2-4	Solid	07/17/19 19:10	07/19/19 09:20	
500-166949-27	SP27 2-4	Solid	07/17/19 19:15	07/19/19 09:20	
500-166949-28	SP21 16-18	Solid	07/17/19 18:30	07/19/19 09:20	

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP20 16-18
Date Collected: 07/17/19 18:50
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-1
Matrix: Solid
Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.10		0.60	0.10	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Benzene	<0.0087		0.015	0.0087	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Bromobenzene	<0.021		0.060	0.021	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Bromochloromethane	<0.026		0.060	0.026	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Bromodichloromethane	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Bromoform	<0.029	*	0.060	0.029	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Bromomethane	<0.048		0.18	0.048	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
2-Butanone (MEK)	<0.13		0.30	0.13	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Carbon tetrachloride	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Chlorobenzene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Chloroethane	<0.030		0.060	0.030	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Chloroform	<0.022		0.12	0.022	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Chloromethane	<0.019		0.060	0.019	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
2-Chlorotoluene	<0.019		0.060	0.019	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
4-Chlorotoluene	<0.021		0.060	0.021	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
cis-1,2-Dichloroethene	<0.024		0.060	0.024	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
cis-1,3-Dichloropropene	<0.025		0.060	0.025	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Dibromochloromethane	<0.029		0.060	0.029	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,2-Dibromo-3-Chloropropane	<0.12	*	0.30	0.12	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,2-Dibromoethane	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Dibromomethane	<0.016	*	0.060	0.016	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,2-Dichlorobenzene	<0.020		0.060	0.020	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,3-Dichlorobenzene	<0.024		0.060	0.024	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,4-Dichlorobenzene	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Dichlorodifluoromethane	<0.040		0.18	0.040	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,1-Dichloroethane	<0.025		0.060	0.025	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,2-Dichloroethane	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,1-Dichloroethene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,2-Dichloropropane	<0.026		0.060	0.026	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,3-Dichloropropane	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
2,2-Dichloropropane	<0.027		0.060	0.027	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,1-Dichloropropene	<0.018		0.060	0.018	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Ethylbenzene	<0.011		0.015	0.011	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Hexachlorobutadiene	<0.027		0.060	0.027	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Isopropylbenzene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Isopropyl ether	<0.017		0.060	0.017	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Methylene Chloride	<0.098		0.30	0.098	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Methyl tert-butyl ether	<0.024		0.060	0.024	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Naphthalene	<0.020		0.060	0.020	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
n-Butylbenzene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
N-Propylbenzene	<0.025		0.060	0.025	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
p-Isopropyltoluene	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
sec-Butylbenzene	<0.024		0.060	0.024	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Styrene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
tert-Butylbenzene	<0.024		0.060	0.024	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,1,1,2-Tetrachloroethane	<0.028		0.060	0.028	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,1,2,2-Tetrachloroethane	<0.024		0.060	0.024	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Tetrachloroethene	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Toluene	<0.0088		0.015	0.0088	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP20 16-18
Date Collected: 07/17/19 18:50
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-1
Matrix: Solid
Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.021		0.060	0.021	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
trans-1,3-Dichloropropene	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,2,3-Trichlorobenzene	<0.027		0.060	0.027	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,2,4-Trichlorobenzene	<0.020		0.060	0.020	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,1,1-Trichloroethane	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,1,2-Trichloroethane	<0.021		0.060	0.021	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Trichloroethene	<0.0098		0.030	0.0098	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Trichlorofluoromethane	<0.026		0.060	0.026	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,2,3-Trichloropropane	<0.025		0.12	0.025	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,2,4-Trimethylbenzene	<0.021		0.060	0.021	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,3,5-Trimethylbenzene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Vinyl chloride	<0.016		0.060	0.016	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Xylenes, Total	<0.013		0.030	0.013	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*07/17/19 18:50*	*07/25/19 13:10*	*50*
Dibromofluoromethane	*107*		*75 - 120*	*07/17/19 18:50*	*07/25/19 13:10*	*50*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*	*07/17/19 18:50*	*07/25/19 13:10*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*07/17/19 18:50*	*07/25/19 13:10*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP11 1-3
Date Collected: 07/17/19 17:00
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-2
Matrix: Solid
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.10		0.58	0.10	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Benzene	<0.0084		0.014	0.0084	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Bromobenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Bromochloromethane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Bromodichloromethane	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Bromoform	<0.028	*	0.058	0.028	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Bromomethane	<0.046		0.17	0.046	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
2-Butanone (MEK)	<0.12		0.29	0.12	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Carbon tetrachloride	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Chlorobenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Chloroethane	<0.029		0.058	0.029	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Chloroform	<0.021		0.12	0.021	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Chloromethane	<0.018		0.058	0.018	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
2-Chlorotoluene	<0.018		0.058	0.018	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
4-Chlorotoluene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
cis-1,2-Dichloroethene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
cis-1,3-Dichloropropene	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Dibromochloromethane	<0.028		0.058	0.028	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,2-Dibromo-3-Chloropropane	<0.11	*	0.29	0.11	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,2-Dibromoethane	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Dibromomethane	<0.016	*	0.058	0.016	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,2-Dichlorobenzene	<0.019		0.058	0.019	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,3-Dichlorobenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,4-Dichlorobenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Dichlorodifluoromethane	<0.039		0.17	0.039	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,1-Dichloroethane	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,2-Dichloroethane	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,1-Dichloroethene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,2-Dichloropropane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,3-Dichloropropane	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
2,2-Dichloropropane	<0.026		0.058	0.026	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,1-Dichloropropene	<0.017		0.058	0.017	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Ethylbenzene	<0.011		0.014	0.011	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Hexachlorobutadiene	<0.026		0.058	0.026	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Isopropylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Isopropyl ether	<0.016		0.058	0.016	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Methylene Chloride	<0.094		0.29	0.094	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Methyl tert-butyl ether	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Naphthalene	<0.019		0.058	0.019	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
n-Butylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
N-Propylbenzene	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
p-Isopropyltoluene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
sec-Butylbenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Styrene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
tert-Butylbenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,1,1,2-Tetrachloroethane	<0.027		0.058	0.027	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,1,2,2-Tetrachloroethane	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Tetrachloroethene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Toluene	<0.0085		0.014	0.0085	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP11 1-3
Date Collected: 07/17/19 17:00
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-2
Matrix: Solid
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
trans-1,3-Dichloropropene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,2,3-Trichlorobenzene	<0.026		0.058	0.026	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,2,4-Trichlorobenzene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,1,1-Trichloroethane	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,1,2-Trichloroethane	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Trichloroethene	<0.0094		0.029	0.0094	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Trichlorofluoromethane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,2,3-Trichloropropane	<0.024		0.12	0.024	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,2,4-Trimethylbenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,3,5-Trimethylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Vinyl chloride	<0.015		0.058	0.015	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*07/17/19 17:00*	*07/25/19 13:38*	*50*
Dibromofluoromethane	*108*		*75 - 120*	*07/17/19 17:00*	*07/25/19 13:38*	*50*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*	*07/17/19 17:00*	*07/25/19 13:38*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*07/17/19 17:00*	*07/25/19 13:38*	*50*

Client Sample ID: SP12 8-10
Lab Sample ID: 500-166949-3
Date Collected: 07/17/19 17:25
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.10		0.58	0.10	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Benzene	<0.0085		0.015	0.0085	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Bromobenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Bromochloromethane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Bromodichloromethane	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Bromoform	<0.028	*	0.058	0.028	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Bromomethane	<0.046		0.18	0.046	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
2-Butanone (MEK)	<0.12		0.29	0.12	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Carbon tetrachloride	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Chlorobenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Chloroethane	<0.029		0.058	0.029	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Chloroform	<0.022		0.12	0.022	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Chloromethane	<0.019		0.058	0.019	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
2-Chlorotoluene	<0.018		0.058	0.018	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
4-Chlorotoluene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
cis-1,2-Dichloroethene	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
cis-1,3-Dichloropropene	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Dibromochloromethane	<0.028		0.058	0.028	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,2-Dibromo-3-Chloropropane	<0.12	*	0.29	0.12	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,2-Dibromoethane	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Dibromomethane	<0.016	*	0.058	0.016	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,2-Dichlorobenzene	<0.019		0.058	0.019	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,3-Dichlorobenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,4-Dichlorobenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Dichlorodifluoromethane	<0.039		0.18	0.039	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,1-Dichloroethane	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,2-Dichloroethane	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,1-Dichloroethene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,2-Dichloropropane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,3-Dichloropropane	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
2,2-Dichloropropane	<0.026		0.058	0.026	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,1-Dichloropropene	<0.017		0.058	0.017	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Ethylbenzene	<0.011		0.015	0.011	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Hexachlorobutadiene	<0.026		0.058	0.026	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Isopropylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Isopropyl ether	<0.016		0.058	0.016	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Methylene Chloride	<0.095		0.29	0.095	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Methyl tert-butyl ether	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Naphthalene	**0.10**	**B**	0.058	0.019	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
n-Butylbenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
N-Propylbenzene	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
p-Isopropyltoluene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
sec-Butylbenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Styrene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
tert-Butylbenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,1,1,2-Tetrachloroethane	<0.027		0.058	0.027	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,1,2,2-Tetrachloroethane	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Tetrachloroethene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Toluene	<0.0086		0.015	0.0086	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP12 8-10
Date Collected: 07/17/19 17:25
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-3
Matrix: Solid
Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
trans-1,3-Dichloropropene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,2,3-Trichlorobenzene	<0.027		0.058	0.027	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,2,4-Trichlorobenzene	**0.045**	**J**	0.058	0.020	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,1,1-Trichloroethane	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,1,2-Trichloroethane	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Trichloroethene	<0.0096		0.029	0.0096	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Trichlorofluoromethane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,2,3-Trichloropropane	<0.024		0.12	0.024	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,2,4-Trimethylbenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,3,5-Trimethylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Vinyl chloride	<0.015		0.058	0.015	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*07/17/19 17:25*	*07/25/19 14:32*	*50*
Dibromofluoromethane	*112*		*75 - 120*	*07/17/19 17:25*	*07/25/19 14:32*	*50*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*07/17/19 17:25*	*07/25/19 14:32*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*	*07/17/19 17:25*	*07/25/19 14:32*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP13 7-9
Date Collected: 07/17/19 17:10
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-4
Matrix: Solid
Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.10		0.59	0.10	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Benzene	<0.0086		0.015	0.0086	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Bromobenzene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Bromochloromethane	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Bromodichloromethane	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Bromoform	<0.028	*	0.059	0.028	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Bromomethane	<0.047		0.18	0.047	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
2-Butanone (MEK)	<0.12		0.29	0.12	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Carbon tetrachloride	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Chlorobenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Chloroethane	<0.030		0.059	0.030	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Chloroform	<0.022		0.12	0.022	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Chloromethane	<0.019		0.059	0.019	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
2-Chlorotoluene	<0.018		0.059	0.018	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
4-Chlorotoluene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
cis-1,2-Dichloroethene	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
cis-1,3-Dichloropropene	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Dibromochloromethane	<0.029		0.059	0.029	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,2-Dibromo-3-Chloropropane	<0.12	*	0.29	0.12	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,2-Dibromoethane	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Dibromomethane	<0.016	*	0.059	0.016	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,2-Dichlorobenzene	<0.020		0.059	0.020	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,3-Dichlorobenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,4-Dichlorobenzene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Dichlorodifluoromethane	<0.040		0.18	0.040	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,1-Dichloroethane	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,2-Dichloroethane	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,1-Dichloroethene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,2-Dichloropropane	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,3-Dichloropropane	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
2,2-Dichloropropane	<0.026		0.059	0.026	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,1-Dichloropropene	<0.017		0.059	0.017	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Ethylbenzene	<0.011		0.015	0.011	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Hexachlorobutadiene	<0.026		0.059	0.026	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Isopropylbenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Isopropyl ether	<0.016		0.059	0.016	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Methylene Chloride	<0.096		0.29	0.096	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Methyl tert-butyl ether	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Naphthalene	**0.033**	**J B**	0.059	0.020	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
n-Butylbenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
N-Propylbenzene	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
p-Isopropyltoluene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
sec-Butylbenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Styrene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
tert-Butylbenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,1,1,2-Tetrachloroethane	<0.027		0.059	0.027	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,1,2,2-Tetrachloroethane	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Tetrachloroethene	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Toluene	<0.0086		0.015	0.0086	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP13 7-9
Date Collected: 07/17/19 17:10
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-4
Matrix: Solid
Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
trans-1,3-Dichloropropene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,2,3-Trichlorobenzene	<0.027		0.059	0.027	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,2,4-Trichlorobenzene	<0.020		0.059	0.020	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,1,1-Trichloroethane	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,1,2-Trichloroethane	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Trichloroethene	<0.0096		0.029	0.0096	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Trichlorofluoromethane	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,2,3-Trichloropropane	<0.024		0.12	0.024	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,2,4-Trimethylbenzene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,3,5-Trimethylbenzene	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Vinyl chloride	<0.015		0.059	0.015	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*07/17/19 17:10*	*07/25/19 14:58*	*50*
Dibromofluoromethane	*107*		*75 - 120*	*07/17/19 17:10*	*07/25/19 14:58*	*50*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*	*07/17/19 17:10*	*07/25/19 14:58*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*07/17/19 17:10*	*07/25/19 14:58*	*50*

Client Sample ID: SP15 2-4
Date Collected: 07/17/19 18:05
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-5
Matrix: Solid
Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.098		0.57	0.098	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Benzene	<0.0083		0.014	0.0083	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Bromobenzene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Bromochloromethane	<0.024		0.057	0.024	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Bromodichloromethane	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Bromoform	<0.027	*	0.057	0.027	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Bromomethane	<0.045		0.17	0.045	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
2-Butanone (MEK)	<0.12		0.28	0.12	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Carbon tetrachloride	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Chlorobenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Chloroethane	<0.029		0.057	0.029	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Chloroform	<0.021		0.11	0.021	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Chloromethane	<0.018		0.057	0.018	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
2-Chlorotoluene	<0.018		0.057	0.018	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
4-Chlorotoluene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
cis-1,2-Dichloroethene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
cis-1,3-Dichloropropene	<0.024		0.057	0.024	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Dibromochloromethane	<0.028		0.057	0.028	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,2-Dibromo-3-Chloropropane	<0.11	*	0.28	0.11	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,2-Dibromoethane	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Dibromomethane	<0.015	*	0.057	0.015	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,2-Dichlorobenzene	<0.019		0.057	0.019	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,3-Dichlorobenzene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,4-Dichlorobenzene	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Dichlorodifluoromethane	<0.038		0.17	0.038	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,1-Dichloroethane	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,2-Dichloroethane	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,1-Dichloroethene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,2-Dichloropropane	<0.024		0.057	0.024	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,3-Dichloropropane	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
2,2-Dichloropropane	<0.025		0.057	0.025	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,1-Dichloropropene	<0.017		0.057	0.017	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Ethylbenzene	<0.010		0.014	0.010	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Hexachlorobutadiene	<0.025		0.057	0.025	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Isopropylbenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Isopropyl ether	<0.016		0.057	0.016	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Methylene Chloride	<0.092		0.28	0.092	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Methyl tert-butyl ether	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Naphthalene	**0.021**	**J B**	0.057	0.019	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
n-Butylbenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
N-Propylbenzene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
p-Isopropyltoluene	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
sec-Butylbenzene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Styrene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
tert-Butylbenzene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,1,1,2-Tetrachloroethane	<0.026		0.057	0.026	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,1,2,2-Tetrachloroethane	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Tetrachloroethene	**6.4**		0.057	0.021	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Toluene	<0.0083		0.014	0.0083	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP15 2-4
Date Collected: 07/17/19 18:05
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-5
Matrix: Solid
Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
trans-1,3-Dichloropropene	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,2,3-Trichlorobenzene	<0.026		0.057	0.026	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,2,4-Trichlorobenzene	<0.019		0.057	0.019	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,1,1-Trichloroethane	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,1,2-Trichloroethane	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Trichloroethene	**0.28**		0.028	0.0093	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Trichlorofluoromethane	<0.024		0.057	0.024	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,2,3-Trichloropropane	<0.023		0.11	0.023	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,2,4-Trimethylbenzene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,3,5-Trimethylbenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Vinyl chloride	<0.015		0.057	0.015	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Xylenes, Total	<0.012		0.028	0.012	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*07/17/19 18:05*	*07/25/19 15:26*	*50*
Dibromofluoromethane	*108*		*75 - 120*	*07/17/19 18:05*	*07/25/19 15:26*	*50*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*	*07/17/19 18:05*	*07/25/19 15:26*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*07/17/19 18:05*	*07/25/19 15:26*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP16 2-4
Date Collected: 07/17/19 18:00
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-6
Matrix: Solid
Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.11		0.61	0.11	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Benzene	<0.0089		0.015	0.0089	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Bromobenzene	<0.022		0.061	0.022	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Bromochloromethane	<0.026		0.061	0.026	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Bromodichloromethane	<0.023		0.061	0.023	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Bromoform	<0.030	*	0.061	0.030	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Bromomethane	<0.049		0.18	0.049	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
2-Butanone (MEK)	<0.13		0.31	0.13	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Carbon tetrachloride	<0.023		0.061	0.023	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Chlorobenzene	<0.024		0.061	0.024	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Chloroethane	<0.031		0.061	0.031	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Chloroform	<0.023		0.12	0.023	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Chloromethane	<0.020		0.061	0.020	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
2-Chlorotoluene	<0.019		0.061	0.019	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
4-Chlorotoluene	<0.021		0.061	0.021	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
cis-1,2-Dichloroethene	<0.025		0.061	0.025	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
cis-1,3-Dichloropropene	<0.025		0.061	0.025	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Dibromochloromethane	<0.030		0.061	0.030	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,2-Dibromo-3-Chloropropane	<0.12	*	0.31	0.12	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,2-Dibromoethane	<0.024		0.061	0.024	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Dibromomethane	<0.016	*	0.061	0.016	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,2-Dichlorobenzene	<0.020		0.061	0.020	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,3-Dichlorobenzene	<0.024		0.061	0.024	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,4-Dichlorobenzene	<0.022		0.061	0.022	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Dichlorodifluoromethane	<0.041		0.18	0.041	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,1-Dichloroethane	<0.025		0.061	0.025	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,2-Dichloroethane	<0.024		0.061	0.024	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,1-Dichloroethene	<0.024		0.061	0.024	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,2-Dichloropropane	<0.026		0.061	0.026	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,3-Dichloropropane	<0.022		0.061	0.022	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
2,2-Dichloropropane	<0.027		0.061	0.027	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,1-Dichloropropene	<0.018		0.061	0.018	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Ethylbenzene	<0.011		0.015	0.011	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Hexachlorobutadiene	<0.027		0.061	0.027	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Isopropylbenzene	<0.023		0.061	0.023	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Isopropyl ether	<0.017		0.061	0.017	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Methylene Chloride	<0.10		0.31	0.10	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Methyl tert-butyl ether	<0.024		0.061	0.024	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Naphthalene	**0.024**	**J B**	0.061	0.020	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
n-Butylbenzene	<0.024		0.061	0.024	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
N-Propylbenzene	<0.025		0.061	0.025	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
p-Isopropyltoluene	<0.022		0.061	0.022	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
sec-Butylbenzene	<0.024		0.061	0.024	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Styrene	<0.024		0.061	0.024	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
tert-Butylbenzene	<0.024		0.061	0.024	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,1,1,2-Tetrachloroethane	<0.028		0.061	0.028	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,1,2,2-Tetrachloroethane	<0.024		0.061	0.024	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Tetrachloroethene	**3.5**		0.061	0.023	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Toluene	<0.0090		0.015	0.0090	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP16 2-4
Date Collected: 07/17/19 18:00
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-6
Matrix: Solid
Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.021		0.061	0.021	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
trans-1,3-Dichloropropene	<0.022		0.061	0.022	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,2,3-Trichlorobenzene	<0.028		0.061	0.028	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,2,4-Trichlorobenzene	<0.021		0.061	0.021	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,1,1-Trichloroethane	<0.023		0.061	0.023	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,1,2-Trichloroethane	<0.022		0.061	0.022	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Trichloroethene	<0.010		0.031	0.010	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Trichlorofluoromethane	<0.026		0.061	0.026	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,2,3-Trichloropropane	<0.025		0.12	0.025	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,2,4-Trimethylbenzene	<0.022		0.061	0.022	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,3,5-Trimethylbenzene	<0.023		0.061	0.023	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Vinyl chloride	<0.016		0.061	0.016	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Xylenes, Total	<0.013		0.031	0.013	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*07/17/19 18:00*	*07/25/19 15:53*	*50*
Dibromofluoromethane	*110*		*75 - 120*	*07/17/19 18:00*	*07/25/19 15:53*	*50*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*07/17/19 18:00*	*07/25/19 15:53*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*07/17/19 18:00*	*07/25/19 15:53*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP17 2-4
Date Collected: 07/17/19 18:20
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-7
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.12		0.68	0.12	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Benzene	<0.0099		0.017	0.0099	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Bromobenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Bromochloromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Bromodichloromethane	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Bromoform	<0.033	*	0.068	0.033	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Bromomethane	<0.054		0.20	0.054	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
2-Butanone (MEK)	<0.14		0.34	0.14	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Carbon tetrachloride	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Chlorobenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Chloroethane	<0.034		0.068	0.034	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Chloroform	<0.025		0.14	0.025	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Chloromethane	<0.022		0.068	0.022	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
2-Chlorotoluene	<0.021		0.068	0.021	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
4-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
cis-1,3-Dichloropropene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Dibromochloromethane	<0.033		0.068	0.033	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,2-Dibromo-3-Chloropropane	<0.13	*	0.34	0.13	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,2-Dibromoethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Dibromomethane	<0.018	*	0.068	0.018	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,2-Dichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,3-Dichlorobenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,4-Dichlorobenzene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Dichlorodifluoromethane	<0.046		0.20	0.046	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,1-Dichloroethane	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,2-Dichloroethane	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,1-Dichloroethene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,2-Dichloropropane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,3-Dichloropropane	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
2,2-Dichloropropane	<0.030		0.068	0.030	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,1-Dichloropropene	<0.020		0.068	0.020	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Hexachlorobutadiene	<0.030		0.068	0.030	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Isopropylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Isopropyl ether	<0.019		0.068	0.019	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Methyl tert-butyl ether	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Naphthalene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
n-Butylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
N-Propylbenzene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
p-Isopropyltoluene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
sec-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Styrene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
tert-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,1,1,2-Tetrachloroethane	<0.031		0.068	0.031	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,1,2,2-Tetrachloroethane	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Tetrachloroethene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Toluene	<0.010		0.017	0.010	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP17 2-4
Date Collected: 07/17/19 18:20
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-7
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
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
trans-1,3-Dichloropropene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Vinyl chloride	<0.018		0.068	0.018	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*07/17/19 18:20*	*07/25/19 16:21*	*50*
Dibromofluoromethane	*110*		*75 - 120*	*07/17/19 18:20*	*07/25/19 16:21*	*50*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*	*07/17/19 18:20*	*07/25/19 16:21*	*50*
Toluene-d8 (Surr)	*92*		*75 - 120*	*07/17/19 18:20*	*07/25/19 16:21*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP18 2-4
Date Collected: 07/17/19 18:35
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-8
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.12		0.70	0.12	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Benzene	<0.010		0.017	0.010	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Bromobenzene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Bromochloromethane	<0.030		0.070	0.030	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Bromodichloromethane	<0.026		0.070	0.026	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Bromoform	<0.034	*	0.070	0.034	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Bromomethane	<0.056		0.21	0.056	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
2-Butanone (MEK)	<0.15		0.35	0.15	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Carbon tetrachloride	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Chlorobenzene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Chloroethane	<0.035		0.070	0.035	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Chloroform	<0.026		0.14	0.026	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Chloromethane	<0.022		0.070	0.022	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
2-Chlorotoluene	<0.022		0.070	0.022	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
4-Chlorotoluene	<0.024		0.070	0.024	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
cis-1,2-Dichloroethene	<0.029		0.070	0.029	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
cis-1,3-Dichloropropene	<0.029		0.070	0.029	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Dibromochloromethane	<0.034		0.070	0.034	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,2-Dibromo-3-Chloropropane	<0.14	*	0.35	0.14	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,2-Dibromoethane	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Dibromomethane	<0.019	*	0.070	0.019	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,2-Dichlorobenzene	<0.023		0.070	0.023	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,3-Dichlorobenzene	<0.028		0.070	0.028	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,4-Dichlorobenzene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Dichlorodifluoromethane	<0.047		0.21	0.047	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,1-Dichloroethane	<0.029		0.070	0.029	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,2-Dichloroethane	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,1-Dichloroethene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,2-Dichloropropane	<0.030		0.070	0.030	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,3-Dichloropropane	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
2,2-Dichloropropane	<0.031		0.070	0.031	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,1-Dichloropropene	<0.021		0.070	0.021	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Ethylbenzene	<0.013		0.017	0.013	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Hexachlorobutadiene	<0.031		0.070	0.031	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Isopropylbenzene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Isopropyl ether	<0.019		0.070	0.019	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Methylene Chloride	<0.11		0.35	0.11	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Methyl tert-butyl ether	<0.028		0.070	0.028	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Naphthalene	**0.029**	**J B**	0.070	0.023	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
n-Butylbenzene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
N-Propylbenzene	<0.029		0.070	0.029	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
p-Isopropyltoluene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
sec-Butylbenzene	<0.028		0.070	0.028	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Styrene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
tert-Butylbenzene	<0.028		0.070	0.028	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,1,1,2-Tetrachloroethane	<0.032		0.070	0.032	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,1,2,2-Tetrachloroethane	<0.028		0.070	0.028	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Tetrachloroethene	<0.026		0.070	0.026	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Toluene	<0.010		0.017	0.010	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP18 2-4
Date Collected: 07/17/19 18:35
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-8
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.070	0.024	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
trans-1,3-Dichloropropene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,2,3-Trichlorobenzene	<0.032		0.070	0.032	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,2,4-Trichlorobenzene	<0.024		0.070	0.024	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,1,1-Trichloroethane	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,1,2-Trichloroethane	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Trichloroethene	<0.011		0.035	0.011	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Trichlorofluoromethane	<0.030		0.070	0.030	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,2,3-Trichloropropane	<0.029		0.14	0.029	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,2,4-Trimethylbenzene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,3,5-Trimethylbenzene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Vinyl chloride	<0.018		0.070	0.018	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Xylenes, Total	<0.015		0.035	0.015	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*07/17/19 18:35*	*07/25/19 16:48*	*50*
Dibromofluoromethane	*109*		*75 - 120*	*07/17/19 18:35*	*07/25/19 16:48*	*50*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*	*07/17/19 18:35*	*07/25/19 16:48*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*07/17/19 18:35*	*07/25/19 16:48*	*50*

Client Sample ID: SP19 2-4
Date Collected: 07/17/19 18:25
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-9
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.12		0.67	0.12	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Benzene	<0.0098		0.017	0.0098	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Bromobenzene	<0.024		0.067	0.024	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Bromochloromethane	<0.029		0.067	0.029	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Bromodichloromethane	<0.025		0.067	0.025	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Bromoform	<0.033	*	0.067	0.033	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Bromomethane	<0.054		0.20	0.054	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
2-Butanone (MEK)	<0.14		0.34	0.14	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Carbon tetrachloride	<0.026		0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Chlorobenzene	<0.026		0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Chloroethane	<0.034		0.067	0.034	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Chloroform	<0.025		0.13	0.025	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Chloromethane	<0.022		0.067	0.022	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
2-Chlorotoluene	<0.021		0.067	0.021	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
4-Chlorotoluene	<0.024		0.067	0.024	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
cis-1,2-Dichloroethene	<0.027		0.067	0.027	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
cis-1,3-Dichloropropene	<0.028		0.067	0.028	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Dibromochloromethane	<0.033		0.067	0.033	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,2-Dibromo-3-Chloropropane	<0.13	*	0.34	0.13	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,2-Dibromoethane	<0.026		0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Dibromomethane	<0.018	*	0.067	0.018	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,2-Dichlorobenzene	<0.022		0.067	0.022	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,3-Dichlorobenzene	<0.027		0.067	0.027	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,4-Dichlorobenzene	<0.024		0.067	0.024	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Dichlorodifluoromethane	<0.045		0.20	0.045	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,1-Dichloroethane	<0.028		0.067	0.028	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,2-Dichloroethane	<0.026		0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,1-Dichloroethene	<0.026		0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,2-Dichloropropane	<0.029		0.067	0.029	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,3-Dichloropropane	<0.024		0.067	0.024	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
2,2-Dichloropropane	<0.030		0.067	0.030	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,1-Dichloropropene	<0.020		0.067	0.020	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Hexachlorobutadiene	<0.030		0.067	0.030	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Isopropylbenzene	<0.026		0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Isopropyl ether	<0.019		0.067	0.019	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Methyl tert-butyl ether	<0.026		0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Naphthalene	<0.022		0.067	0.022	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
n-Butylbenzene	<0.026		0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
N-Propylbenzene	<0.028		0.067	0.028	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
p-Isopropyltoluene	<0.024		0.067	0.024	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
sec-Butylbenzene	<0.027		0.067	0.027	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Styrene	<0.026		0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
tert-Butylbenzene	<0.027		0.067	0.027	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,1,1,2-Tetrachloroethane	<0.031		0.067	0.031	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,1,2,2-Tetrachloroethane	<0.027		0.067	0.027	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Tetrachloroethene	<0.025		0.067	0.025	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Toluene	<0.0099		0.017	0.0099	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP19 2-4
Date Collected: 07/17/19 18:25
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-9
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.067	0.024	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
trans-1,3-Dichloropropene	<0.024		0.067	0.024	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,2,3-Trichlorobenzene	<0.031		0.067	0.031	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,2,4-Trichlorobenzene	<0.023		0.067	0.023	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,1,1-Trichloroethane	<0.026		0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,1,2-Trichloroethane	<0.024		0.067	0.024	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Trichlorofluoromethane	<0.029		0.067	0.029	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,2,3-Trichloropropane	<0.028		0.13	0.028	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,2,4-Trimethylbenzene	<0.024		0.067	0.024	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,3,5-Trimethylbenzene	<0.026		0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Vinyl chloride	<0.018		0.067	0.018	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*07/17/19 18:25*	*07/25/19 17:15*	*50*
Dibromofluoromethane	*109*		*75 - 120*	*07/17/19 18:25*	*07/25/19 17:15*	*50*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*	*07/17/19 18:25*	*07/25/19 17:15*	*50*
Toluene-d8 (Surr)	*92*		*75 - 120*	*07/17/19 18:25*	*07/25/19 17:15*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP11 7-9
Date Collected: 07/17/19 17:05
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-10
Matrix: Solid
Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.099		0.57	0.099	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Benzene	<0.0084		0.014	0.0084	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Bromobenzene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Bromochloromethane	<0.025		0.057	0.025	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Bromodichloromethane	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Bromoform	<0.028	*	0.057	0.028	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Bromomethane	<0.046		0.17	0.046	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
2-Butanone (MEK)	<0.12		0.29	0.12	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Carbon tetrachloride	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Chlorobenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Chloroethane	<0.029		0.057	0.029	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Chloroform	<0.021		0.11	0.021	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Chloromethane	<0.018		0.057	0.018	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
2-Chlorotoluene	<0.018		0.057	0.018	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
4-Chlorotoluene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
cis-1,2-Dichloroethene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
cis-1,3-Dichloropropene	<0.024		0.057	0.024	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Dibromochloromethane	<0.028		0.057	0.028	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,2-Dibromo-3-Chloropropane	<0.11	*	0.29	0.11	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,2-Dibromoethane	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Dibromomethane	<0.015	*	0.057	0.015	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,2-Dichlorobenzene	<0.019		0.057	0.019	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,3-Dichlorobenzene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,4-Dichlorobenzene	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Dichlorodifluoromethane	<0.039		0.17	0.039	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,1-Dichloroethane	<0.024		0.057	0.024	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,2-Dichloroethane	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,1-Dichloroethene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,2-Dichloropropane	<0.025		0.057	0.025	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,3-Dichloropropane	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
2,2-Dichloropropane	<0.025		0.057	0.025	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,1-Dichloropropene	<0.017		0.057	0.017	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Ethylbenzene	<0.011		0.014	0.011	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Hexachlorobutadiene	<0.026		0.057	0.026	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Isopropylbenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Isopropyl ether	<0.016		0.057	0.016	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Methylene Chloride	<0.094		0.29	0.094	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Methyl tert-butyl ether	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Naphthalene	<0.019		0.057	0.019	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
n-Butylbenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
N-Propylbenzene	<0.024		0.057	0.024	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
p-Isopropyltoluene	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
sec-Butylbenzene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Styrene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
tert-Butylbenzene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,1,1,2-Tetrachloroethane	<0.027		0.057	0.027	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,1,2,2-Tetrachloroethane	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Tetrachloroethene	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Toluene	<0.0084		0.014	0.0084	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP11 7-9
Date Collected: 07/17/19 17:05
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-10
Matrix: Solid
Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
trans-1,3-Dichloropropene	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,2,3-Trichlorobenzene	<0.026		0.057	0.026	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,2,4-Trichlorobenzene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,1,1-Trichloroethane	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,1,2-Trichloroethane	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Trichloroethene	<0.0094		0.029	0.0094	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Trichlorofluoromethane	<0.025		0.057	0.025	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,2,3-Trichloropropane	<0.024		0.11	0.024	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,2,4-Trimethylbenzene	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,3,5-Trimethylbenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Vinyl chloride	<0.015		0.057	0.015	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*07/17/19 17:05*	*07/25/19 17:42*	*50*
Dibromofluoromethane	*111*		*75 - 120*	*07/17/19 17:05*	*07/25/19 17:42*	*50*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*07/17/19 17:05*	*07/25/19 17:42*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*07/17/19 17:05*	*07/25/19 17:42*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP15 8-10
Date Collected: 07/17/19 17:30
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-11
Matrix: Solid
Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.098		0.57	0.098	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Benzene	<0.0083		0.014	0.0083	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Bromobenzene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Bromochloromethane	<0.024		0.057	0.024	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Bromodichloromethane	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Bromoform	<0.027	*	0.057	0.027	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Bromomethane	<0.045		0.17	0.045	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
2-Butanone (MEK)	<0.12		0.28	0.12	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Carbon tetrachloride	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Chlorobenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Chloroethane	<0.029		0.057	0.029	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Chloroform	<0.021		0.11	0.021	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Chloromethane	<0.018		0.057	0.018	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
2-Chlorotoluene	<0.018		0.057	0.018	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
4-Chlorotoluene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
cis-1,2-Dichloroethene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
cis-1,3-Dichloropropene	<0.024		0.057	0.024	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Dibromochloromethane	<0.028		0.057	0.028	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,2-Dibromo-3-Chloropropane	<0.11	*	0.28	0.11	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,2-Dibromoethane	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Dibromomethane	<0.015	*	0.057	0.015	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,2-Dichlorobenzene	<0.019		0.057	0.019	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,3-Dichlorobenzene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,4-Dichlorobenzene	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Dichlorodifluoromethane	<0.038		0.17	0.038	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,1-Dichloroethane	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,2-Dichloroethane	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,1-Dichloroethene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,2-Dichloropropane	<0.024		0.057	0.024	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,3-Dichloropropane	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
2,2-Dichloropropane	<0.025		0.057	0.025	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,1-Dichloropropene	<0.017		0.057	0.017	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Ethylbenzene	<0.010		0.014	0.010	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Hexachlorobutadiene	<0.025		0.057	0.025	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Isopropylbenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Isopropyl ether	<0.016		0.057	0.016	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Methylene Chloride	<0.092		0.28	0.092	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Methyl tert-butyl ether	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Naphthalene	<0.019		0.057	0.019	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
n-Butylbenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
N-Propylbenzene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
p-Isopropyltoluene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
sec-Butylbenzene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Styrene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
tert-Butylbenzene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,1,1,2-Tetrachloroethane	<0.026		0.057	0.026	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,1,2,2-Tetrachloroethane	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Tetrachloroethene	**1.3**		0.057	0.021	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Toluene	<0.0083		0.014	0.0083	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP15 8-10
Date Collected: 07/17/19 17:30
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-11
Matrix: Solid
Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
trans-1,3-Dichloropropene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,2,3-Trichlorobenzene	<0.026		0.057	0.026	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,2,4-Trichlorobenzene	<0.019		0.057	0.019	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,1,1-Trichloroethane	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,1,2-Trichloroethane	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Trichloroethene	<0.0093		0.028	0.0093	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Trichlorofluoromethane	<0.024		0.057	0.024	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,2,3-Trichloropropane	<0.023		0.11	0.023	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,2,4-Trimethylbenzene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,3,5-Trimethylbenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Vinyl chloride	<0.015		0.057	0.015	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Xylenes, Total	<0.012		0.028	0.012	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*	*07/17/19 17:30*	*07/25/19 18:09*	*50*
Dibromofluoromethane	*110*		*75 - 120*	*07/17/19 17:30*	*07/25/19 18:09*	*50*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*07/17/19 17:30*	*07/25/19 18:09*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*07/17/19 17:30*	*07/25/19 18:09*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP15 16-18
Date Collected: 07/17/19 17:40
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-12
Matrix: Solid
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.10		0.60	0.10	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Benzene	<0.0087		0.015	0.0087	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Bromobenzene	<0.021		0.060	0.021	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Bromochloromethane	<0.026		0.060	0.026	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Bromodichloromethane	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Bromoform	<0.029	*	0.060	0.029	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Bromomethane	<0.047		0.18	0.047	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
2-Butanone (MEK)	<0.13		0.30	0.13	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Carbon tetrachloride	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Chlorobenzene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Chloroethane	<0.030		0.060	0.030	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Chloroform	<0.022		0.12	0.022	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Chloromethane	<0.019		0.060	0.019	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
2-Chlorotoluene	<0.019		0.060	0.019	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
4-Chlorotoluene	<0.021		0.060	0.021	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
cis-1,2-Dichloroethene	<0.024		0.060	0.024	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
cis-1,3-Dichloropropene	<0.025		0.060	0.025	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Dibromochloromethane	<0.029		0.060	0.029	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,2-Dibromo-3-Chloropropane	<0.12	*	0.30	0.12	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,2-Dibromoethane	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Dibromomethane	<0.016	*	0.060	0.016	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,2-Dichlorobenzene	<0.020		0.060	0.020	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,3-Dichlorobenzene	<0.024		0.060	0.024	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,4-Dichlorobenzene	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Dichlorodifluoromethane	<0.040		0.18	0.040	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,1-Dichloroethane	<0.024		0.060	0.024	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,2-Dichloroethane	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,1-Dichloroethene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,2-Dichloropropane	<0.026		0.060	0.026	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,3-Dichloropropane	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
2,2-Dichloropropane	<0.026		0.060	0.026	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,1-Dichloropropene	<0.018		0.060	0.018	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Ethylbenzene	<0.011		0.015	0.011	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Hexachlorobutadiene	<0.027		0.060	0.027	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Isopropylbenzene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Isopropyl ether	<0.016		0.060	0.016	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Methylene Chloride	<0.097		0.30	0.097	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Methyl tert-butyl ether	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Naphthalene	<0.020		0.060	0.020	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
n-Butylbenzene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
N-Propylbenzene	<0.025		0.060	0.025	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
p-Isopropyltoluene	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
sec-Butylbenzene	<0.024		0.060	0.024	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Styrene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
tert-Butylbenzene	<0.024		0.060	0.024	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,1,1,2-Tetrachloroethane	<0.028		0.060	0.028	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,1,2,2-Tetrachloroethane	<0.024		0.060	0.024	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Tetrachloroethene	**2.5**		0.060	0.022	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Toluene	<0.0088		0.015	0.0088	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP15 16-18
Date Collected: 07/17/19 17:40
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-12
Matrix: Solid
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.021		0.060	0.021	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
trans-1,3-Dichloropropene	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,2,3-Trichlorobenzene	<0.027		0.060	0.027	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,2,4-Trichlorobenzene	<0.020		0.060	0.020	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,1,1-Trichloroethane	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,1,2-Trichloroethane	<0.021		0.060	0.021	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Trichloroethene	**0.083**		0.030	0.0098	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Trichlorofluoromethane	<0.026		0.060	0.026	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,2,3-Trichloropropane	<0.025		0.12	0.025	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,2,4-Trimethylbenzene	<0.021		0.060	0.021	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,3,5-Trimethylbenzene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Vinyl chloride	<0.016		0.060	0.016	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Xylenes, Total	<0.013		0.030	0.013	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*	*07/17/19 17:40*	*07/25/19 18:36*	*50*
Dibromofluoromethane	*111*		*75 - 120*	*07/17/19 17:40*	*07/25/19 18:36*	*50*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*	*07/17/19 17:40*	*07/25/19 18:36*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*07/17/19 17:40*	*07/25/19 18:36*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP16 8-10
Date Collected: 07/17/19 17:50
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-13
Matrix: Solid
Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.10		0.59	0.10	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Benzene	<0.0085		0.015	0.0085	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Bromobenzene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Bromochloromethane	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Bromodichloromethane	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Bromoform	<0.028	*	0.059	0.028	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Bromomethane	<0.047		0.18	0.047	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
2-Butanone (MEK)	<0.12		0.29	0.12	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Carbon tetrachloride	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Chlorobenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Chloroethane	<0.030		0.059	0.030	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Chloroform	<0.022		0.12	0.022	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Chloromethane	<0.019		0.059	0.019	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
2-Chlorotoluene	<0.018		0.059	0.018	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
4-Chlorotoluene	<0.020		0.059	0.020	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
cis-1,2-Dichloroethene	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
cis-1,3-Dichloropropene	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Dibromochloromethane	<0.029		0.059	0.029	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,2-Dibromo-3-Chloropropane	<0.12	*	0.29	0.12	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,2-Dibromoethane	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Dibromomethane	<0.016	*	0.059	0.016	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,2-Dichlorobenzene	<0.020		0.059	0.020	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,3-Dichlorobenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,4-Dichlorobenzene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Dichlorodifluoromethane	<0.039		0.18	0.039	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,1-Dichloroethane	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,2-Dichloroethane	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,1-Dichloroethene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,2-Dichloropropane	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,3-Dichloropropane	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
2,2-Dichloropropane	<0.026		0.059	0.026	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,1-Dichloropropene	<0.017		0.059	0.017	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Ethylbenzene	<0.011		0.015	0.011	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Hexachlorobutadiene	<0.026		0.059	0.026	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Isopropylbenzene	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Isopropyl ether	<0.016		0.059	0.016	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Methylene Chloride	<0.095		0.29	0.095	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Methyl tert-butyl ether	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Naphthalene	<0.020		0.059	0.020	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
n-Butylbenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
N-Propylbenzene	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
p-Isopropyltoluene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
sec-Butylbenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Styrene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
tert-Butylbenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,1,1,2-Tetrachloroethane	<0.027		0.059	0.027	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,1,2,2-Tetrachloroethane	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Tetrachloroethene	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Toluene	<0.0086		0.015	0.0086	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP16 8-10
Date Collected: 07/17/19 17:50
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-13
Matrix: Solid
Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.059	0.020	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
trans-1,3-Dichloropropene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,2,3-Trichlorobenzene	<0.027		0.059	0.027	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,2,4-Trichlorobenzene	<0.020		0.059	0.020	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,1,1-Trichloroethane	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,1,2-Trichloroethane	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Trichloroethene	<0.0096		0.029	0.0096	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Trichlorofluoromethane	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,2,3-Trichloropropane	<0.024		0.12	0.024	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,2,4-Trimethylbenzene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,3,5-Trimethylbenzene	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Vinyl chloride	<0.015		0.059	0.015	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*	*07/17/19 17:50*	*07/25/19 19:03*	*50*
Dibromofluoromethane	*111*		*75 - 120*	*07/17/19 17:50*	*07/25/19 19:03*	*50*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*07/17/19 17:50*	*07/25/19 19:03*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*07/17/19 17:50*	*07/25/19 19:03*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP16 16-18
Date Collected: 07/17/19 17:35
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-14
Matrix: Solid
Percent Solids: 93.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.096		0.55	0.096	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Benzene	<0.0081		0.014	0.0081	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Bromobenzene	<0.020		0.055	0.020	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Bromochloromethane	<0.024		0.055	0.024	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Bromodichloromethane	<0.021		0.055	0.021	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Bromoform	<0.027	*	0.055	0.027	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Bromomethane	<0.044		0.17	0.044	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
2-Butanone (MEK)	<0.12		0.28	0.12	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Carbon tetrachloride	<0.021		0.055	0.021	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Chlorobenzene	<0.021		0.055	0.021	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Chloroethane	<0.028		0.055	0.028	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Chloroform	<0.021		0.11	0.021	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Chloromethane	<0.018		0.055	0.018	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
2-Chlorotoluene	<0.017		0.055	0.017	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
4-Chlorotoluene	<0.019		0.055	0.019	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
cis-1,2-Dichloroethene	<0.023		0.055	0.023	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
cis-1,3-Dichloropropene	<0.023		0.055	0.023	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Dibromochloromethane	<0.027		0.055	0.027	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,2-Dibromo-3-Chloropropane	<0.11	*	0.28	0.11	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,2-Dibromoethane	<0.021		0.055	0.021	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Dibromomethane	<0.015	*	0.055	0.015	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,2-Dichlorobenzene	<0.019		0.055	0.019	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,3-Dichlorobenzene	<0.022		0.055	0.022	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,4-Dichlorobenzene	<0.020		0.055	0.020	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Dichlorodifluoromethane	<0.037		0.17	0.037	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,1-Dichloroethane	<0.023		0.055	0.023	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,2-Dichloroethane	<0.022		0.055	0.022	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,1-Dichloroethene	<0.022		0.055	0.022	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,2-Dichloropropane	<0.024		0.055	0.024	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,3-Dichloropropane	<0.020		0.055	0.020	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
2,2-Dichloropropane	<0.025		0.055	0.025	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,1-Dichloropropene	<0.017		0.055	0.017	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Ethylbenzene	<0.010		0.014	0.010	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Hexachlorobutadiene	<0.025		0.055	0.025	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Isopropylbenzene	<0.021		0.055	0.021	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Isopropyl ether	<0.015		0.055	0.015	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Methylene Chloride	<0.090		0.28	0.090	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Methyl tert-butyl ether	<0.022		0.055	0.022	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Naphthalene	<0.019		0.055	0.019	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
n-Butylbenzene	<0.022		0.055	0.022	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
N-Propylbenzene	<0.023		0.055	0.023	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
p-Isopropyltoluene	<0.020		0.055	0.020	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
sec-Butylbenzene	<0.022		0.055	0.022	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Styrene	<0.021		0.055	0.021	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
tert-Butylbenzene	<0.022		0.055	0.022	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,1,1,2-Tetrachloroethane	<0.026		0.055	0.026	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,1,2,2-Tetrachloroethane	<0.022		0.055	0.022	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Tetrachloroethene	<0.021		0.055	0.021	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Toluene	<0.0082		0.014	0.0082	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP16 16-18
Date Collected: 07/17/19 17:35
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-14
Matrix: Solid
Percent Solids: 93.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.019		0.055	0.019	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
trans-1,3-Dichloropropene	<0.020		0.055	0.020	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,2,3-Trichlorobenzene	<0.025		0.055	0.025	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,2,4-Trichlorobenzene	<0.019		0.055	0.019	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,1,1-Trichloroethane	<0.021		0.055	0.021	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,1,2-Trichloroethane	<0.020		0.055	0.020	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Trichloroethene	<0.0091		0.028	0.0091	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Trichlorofluoromethane	<0.024		0.055	0.024	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,2,3-Trichloropropane	<0.023		0.11	0.023	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,2,4-Trimethylbenzene	<0.020		0.055	0.020	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,3,5-Trimethylbenzene	<0.021		0.055	0.021	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Vinyl chloride	<0.015		0.055	0.015	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Xylenes, Total	<0.012		0.028	0.012	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*07/17/19 17:35*	*07/25/19 19:30*	*50*
Dibromofluoromethane	*113*		*75 - 120*	*07/17/19 17:35*	*07/25/19 19:30*	*50*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*07/17/19 17:35*	*07/25/19 19:30*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*	*07/17/19 17:35*	*07/25/19 19:30*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP17 8-10
Date Collected: 07/17/19 17:45
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-15
Matrix: Solid
Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.093		0.54	0.093	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Benzene	<0.0078		0.013	0.0078	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Bromobenzene	<0.019		0.054	0.019	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Bromochloromethane	<0.023		0.054	0.023	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Bromodichloromethane	<0.020		0.054	0.020	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Bromoform	<0.026	F1 *	0.054	0.026	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Bromomethane	<0.043		0.16	0.043	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
2-Butanone (MEK)	<0.11		0.27	0.11	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Carbon tetrachloride	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Chlorobenzene	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Chloroethane	<0.027		0.054	0.027	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Chloroform	<0.020		0.11	0.020	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Chloromethane	<0.017		0.054	0.017	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
2-Chlorotoluene	<0.017		0.054	0.017	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
4-Chlorotoluene	<0.019		0.054	0.019	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
cis-1,2-Dichloroethene	<0.022		0.054	0.022	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
cis-1,3-Dichloropropene	<0.022		0.054	0.022	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Dibromochloromethane	<0.026		0.054	0.026	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,2-Dibromo-3-Chloropropane	<0.11	F1 *	0.27	0.11	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,2-Dibromoethane	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Dibromomethane	<0.014	F1 *	0.054	0.014	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,2-Dichlorobenzene	<0.018		0.054	0.018	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,3-Dichlorobenzene	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,4-Dichlorobenzene	<0.020		0.054	0.020	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Dichlorodifluoromethane	<0.036		0.16	0.036	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,1-Dichloroethane	<0.022		0.054	0.022	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,2-Dichloroethane	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,1-Dichloroethene	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,2-Dichloropropane	<0.023		0.054	0.023	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,3-Dichloropropane	<0.019		0.054	0.019	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
2,2-Dichloropropane	<0.024		0.054	0.024	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,1-Dichloropropene	<0.016		0.054	0.016	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Ethylbenzene	<0.0098		0.013	0.0098	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Hexachlorobutadiene	<0.024		0.054	0.024	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Isopropylbenzene	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Isopropyl ether	<0.015		0.054	0.015	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Methylene Chloride	<0.087		0.27	0.087	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Methyl tert-butyl ether	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Naphthalene	<0.018		0.054	0.018	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
n-Butylbenzene	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
N-Propylbenzene	<0.022		0.054	0.022	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
p-Isopropyltoluene	<0.019		0.054	0.019	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
sec-Butylbenzene	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Styrene	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
tert-Butylbenzene	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,1,1,2-Tetrachloroethane	<0.025		0.054	0.025	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,1,2,2-Tetrachloroethane	<0.021		0.054	0.021	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Tetrachloroethene	<0.020		0.054	0.020	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Toluene	<0.0079		0.013	0.0079	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP17 8-10
Date Collected: 07/17/19 17:45
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-15
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
trans-1,2-Dichloroethene	<0.019		0.054	0.019	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
trans-1,3-Dichloropropene	<0.019		0.054	0.019	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,2,3-Trichlorobenzene	<0.025		0.054	0.025	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,2,4-Trichlorobenzene	<0.018		0.054	0.018	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,1,1-Trichloroethane	<0.020		0.054	0.020	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,1,2-Trichloroethane	<0.019		0.054	0.019	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Trichloroethene	<0.0088		0.027	0.0088	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Trichlorofluoromethane	<0.023		0.054	0.023	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,2,3-Trichloropropane	<0.022		0.11	0.022	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,2,4-Trimethylbenzene	<0.019		0.054	0.019	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,3,5-Trimethylbenzene	<0.020		0.054	0.020	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Vinyl chloride	<0.014		0.054	0.014	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
Xylenes, Total	<0.012		0.027	0.012	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*07/17/19 17:45*	*07/25/19 19:58*	*50*
Dibromofluoromethane	*111*		*75 - 120*	*07/17/19 17:45*	*07/25/19 19:58*	*50*
1,2-Dichloroethane-d4 (Surr)	*114*		*75 - 126*	*07/17/19 17:45*	*07/25/19 19:58*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*07/17/19 17:45*	*07/25/19 19:58*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP17 16-18
Date Collected: 07/17/19 17:55
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-16
Matrix: Solid
Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.10		0.58	0.10	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Benzene	<0.0085		0.015	0.0085	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Bromobenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Bromochloromethane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Bromodichloromethane	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Bromoform	<0.028	*	0.058	0.028	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Bromomethane	<0.046		0.17	0.046	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
2-Butanone (MEK)	<0.12		0.29	0.12	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Carbon tetrachloride	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Chlorobenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Chloroethane	<0.029		0.058	0.029	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Chloroform	<0.022		0.12	0.022	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Chloromethane	<0.019		0.058	0.019	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
2-Chlorotoluene	<0.018		0.058	0.018	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
4-Chlorotoluene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
cis-1,2-Dichloroethene	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
cis-1,3-Dichloropropene	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Dibromochloromethane	<0.028		0.058	0.028	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,2-Dibromo-3-Chloropropane	<0.12	*	0.29	0.12	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,2-Dibromoethane	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Dibromomethane	<0.016	*	0.058	0.016	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,2-Dichlorobenzene	<0.019		0.058	0.019	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,3-Dichlorobenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,4-Dichlorobenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Dichlorodifluoromethane	<0.039		0.17	0.039	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,1-Dichloroethane	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,2-Dichloroethane	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,1-Dichloroethene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,2-Dichloropropane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,3-Dichloropropane	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
2,2-Dichloropropane	<0.026		0.058	0.026	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,1-Dichloropropene	<0.017		0.058	0.017	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Ethylbenzene	<0.011		0.015	0.011	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Hexachlorobutadiene	<0.026		0.058	0.026	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Isopropylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Isopropyl ether	<0.016		0.058	0.016	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Methylene Chloride	<0.095		0.29	0.095	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Methyl tert-butyl ether	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Naphthalene	<0.019		0.058	0.019	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
n-Butylbenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
N-Propylbenzene	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
p-Isopropyltoluene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
sec-Butylbenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Styrene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
tert-Butylbenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,1,1,2-Tetrachloroethane	<0.027		0.058	0.027	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,1,2,2-Tetrachloroethane	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Tetrachloroethene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Toluene	<0.0085		0.015	0.0085	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP17 16-18
Date Collected: 07/17/19 17:55
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-16
Matrix: Solid
Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
trans-1,3-Dichloropropene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,2,3-Trichlorobenzene	<0.027		0.058	0.027	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,2,4-Trichlorobenzene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,1,1-Trichloroethane	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,1,2-Trichloroethane	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Trichloroethene	<0.0095		0.029	0.0095	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Trichlorofluoromethane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,2,3-Trichloropropane	<0.024		0.12	0.024	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,2,4-Trimethylbenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
1,3,5-Trimethylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Vinyl chloride	<0.015		0.058	0.015	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*07/17/19 17:55*	*07/26/19 11:27*	*50*
Dibromofluoromethane	*104*		*75 - 120*	*07/17/19 17:55*	*07/26/19 11:27*	*50*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*	*07/17/19 17:55*	*07/26/19 11:27*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*07/17/19 17:55*	*07/26/19 11:27*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP18 8-10
Date Collected: 07/17/19 18:45
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-17
Matrix: Solid
Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.097		0.56	0.097	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Benzene	<0.0082		0.014	0.0082	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Bromobenzene	<0.020		0.056	0.020	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Bromochloromethane	<0.024		0.056	0.024	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Bromodichloromethane	<0.021		0.056	0.021	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Bromoform	<0.027	*	0.056	0.027	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Bromomethane	<0.045		0.17	0.045	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
2-Butanone (MEK)	<0.12		0.28	0.12	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Carbon tetrachloride	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Chlorobenzene	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Chloroethane	<0.028		0.056	0.028	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Chloroform	<0.021		0.11	0.021	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Chloromethane	<0.018		0.056	0.018	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
2-Chlorotoluene	<0.018		0.056	0.018	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
4-Chlorotoluene	<0.020		0.056	0.020	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
cis-1,2-Dichloroethene	<0.023		0.056	0.023	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
cis-1,3-Dichloropropene	<0.023		0.056	0.023	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Dibromochloromethane	<0.027		0.056	0.027	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,2-Dibromo-3-Chloropropane	<0.11	*	0.28	0.11	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,2-Dibromoethane	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Dibromomethane	<0.015	*	0.056	0.015	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,2-Dichlorobenzene	<0.019		0.056	0.019	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,3-Dichlorobenzene	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,4-Dichlorobenzene	<0.020		0.056	0.020	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Dichlorodifluoromethane	<0.038		0.17	0.038	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,1-Dichloroethane	<0.023		0.056	0.023	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,2-Dichloroethane	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,1-Dichloroethene	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,2-Dichloropropane	<0.024		0.056	0.024	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,3-Dichloropropane	<0.020		0.056	0.020	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
2,2-Dichloropropane	<0.025		0.056	0.025	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,1-Dichloropropene	<0.017		0.056	0.017	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Ethylbenzene	<0.010		0.014	0.010	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Hexachlorobutadiene	<0.025		0.056	0.025	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Isopropylbenzene	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Isopropyl ether	<0.015		0.056	0.015	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Methylene Chloride	<0.091		0.28	0.091	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Methyl tert-butyl ether	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Naphthalene	<0.019		0.056	0.019	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
n-Butylbenzene	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
N-Propylbenzene	<0.023		0.056	0.023	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
p-Isopropyltoluene	<0.020		0.056	0.020	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
sec-Butylbenzene	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Styrene	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
tert-Butylbenzene	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,1,1,2-Tetrachloroethane	<0.026		0.056	0.026	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,1,2,2-Tetrachloroethane	<0.022		0.056	0.022	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Tetrachloroethene	<0.021		0.056	0.021	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Toluene	<0.0082		0.014	0.0082	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP18 8-10
Date Collected: 07/17/19 18:45
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-17
Matrix: Solid
Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.056	0.020	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
trans-1,3-Dichloropropene	<0.020		0.056	0.020	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,2,3-Trichlorobenzene	<0.026		0.056	0.026	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,2,4-Trichlorobenzene	<0.019		0.056	0.019	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,1,1-Trichloroethane	<0.021		0.056	0.021	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,1,2-Trichloroethane	<0.020		0.056	0.020	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Trichloroethene	<0.0092		0.028	0.0092	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Trichlorofluoromethane	<0.024		0.056	0.024	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,2,3-Trichloropropane	<0.023		0.11	0.023	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,2,4-Trimethylbenzene	<0.020		0.056	0.020	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,3,5-Trimethylbenzene	<0.021		0.056	0.021	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Vinyl chloride	<0.015		0.056	0.015	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Xylenes, Total	<0.012		0.028	0.012	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*07/17/19 18:45*	*07/26/19 11:55*	*50*
Dibromofluoromethane	*102*		*75 - 120*	*07/17/19 18:45*	*07/26/19 11:55*	*50*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*	*07/17/19 18:45*	*07/26/19 11:55*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*07/17/19 18:45*	*07/26/19 11:55*	*50*

Client Sample ID: SP18 16-18
Date Collected: 07/17/19 18:10
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-18
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.12		0.68	0.12	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Benzene	<0.0099		0.017	0.0099	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Bromobenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Bromochloromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Bromodichloromethane	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Bromoform	<0.033	*	0.068	0.033	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Bromomethane	<0.054		0.20	0.054	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
2-Butanone (MEK)	<0.14		0.34	0.14	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Carbon tetrachloride	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Chlorobenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Chloroethane	<0.034		0.068	0.034	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Chloroform	<0.025		0.14	0.025	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Chloromethane	<0.022		0.068	0.022	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
2-Chlorotoluene	<0.021		0.068	0.021	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
4-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
cis-1,3-Dichloropropene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Dibromochloromethane	<0.033		0.068	0.033	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,2-Dibromo-3-Chloropropane	<0.13	*	0.34	0.13	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,2-Dibromoethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Dibromomethane	<0.018	*	0.068	0.018	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,2-Dichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,3-Dichlorobenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,4-Dichlorobenzene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Dichlorodifluoromethane	<0.046		0.20	0.046	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,1-Dichloroethane	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,2-Dichloroethane	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,1-Dichloroethene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,2-Dichloropropane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,3-Dichloropropane	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
2,2-Dichloropropane	<0.030		0.068	0.030	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,1-Dichloropropene	<0.020		0.068	0.020	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Hexachlorobutadiene	<0.030		0.068	0.030	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Isopropylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Isopropyl ether	<0.019		0.068	0.019	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Methyl tert-butyl ether	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Naphthalene	**0.031**	**J B**	0.068	0.023	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
n-Butylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
N-Propylbenzene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
p-Isopropyltoluene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
sec-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Styrene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
tert-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,1,1,2-Tetrachloroethane	<0.031		0.068	0.031	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,1,2,2-Tetrachloroethane	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Tetrachloroethene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Toluene	<0.0099		0.017	0.0099	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP18 16-18
Date Collected: 07/17/19 18:10
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-18
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
trans-1,3-Dichloropropene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Vinyl chloride	<0.018		0.068	0.018	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*07/17/19 18:10*	*07/26/19 12:22*	*50*
Dibromofluoromethane	*105*		*75 - 120*	*07/17/19 18:10*	*07/26/19 12:22*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*	*07/17/19 18:10*	*07/26/19 12:22*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*07/17/19 18:10*	*07/26/19 12:22*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP19 8-10
Date Collected: 07/17/19 18:55
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-19
Matrix: Solid
Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.12		0.70	0.12	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Benzene	<0.010		0.018	0.010	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Bromobenzene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Bromochloromethane	<0.030		0.070	0.030	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Bromodichloromethane	<0.026		0.070	0.026	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Bromoform	<0.034	*	0.070	0.034	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Bromomethane	<0.056		0.21	0.056	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
2-Butanone (MEK)	<0.15		0.35	0.15	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Carbon tetrachloride	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Chlorobenzene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Chloroethane	<0.035		0.070	0.035	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Chloroform	<0.026		0.14	0.026	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Chloromethane	<0.022		0.070	0.022	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
2-Chlorotoluene	<0.022		0.070	0.022	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
4-Chlorotoluene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
cis-1,2-Dichloroethene	<0.029		0.070	0.029	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
cis-1,3-Dichloropropene	<0.029		0.070	0.029	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Dibromochloromethane	<0.034		0.070	0.034	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,2-Dibromo-3-Chloropropane	<0.14	*	0.35	0.14	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,2-Dibromoethane	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Dibromomethane	<0.019	*	0.070	0.019	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,2-Dichlorobenzene	<0.023		0.070	0.023	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,3-Dichlorobenzene	<0.028		0.070	0.028	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,4-Dichlorobenzene	<0.026		0.070	0.026	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Dichlorodifluoromethane	<0.047		0.21	0.047	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,1-Dichloroethane	<0.029		0.070	0.029	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,2-Dichloroethane	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,1-Dichloroethene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,2-Dichloropropane	<0.030		0.070	0.030	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,3-Dichloropropane	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
2,2-Dichloropropane	<0.031		0.070	0.031	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,1-Dichloropropene	<0.021		0.070	0.021	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Ethylbenzene	<0.013		0.018	0.013	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Hexachlorobutadiene	<0.031		0.070	0.031	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Isopropylbenzene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Isopropyl ether	<0.019		0.070	0.019	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Methylene Chloride	<0.11		0.35	0.11	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Methyl tert-butyl ether	<0.028		0.070	0.028	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Naphthalene	<0.023		0.070	0.023	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
n-Butylbenzene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
N-Propylbenzene	<0.029		0.070	0.029	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
p-Isopropyltoluene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
sec-Butylbenzene	<0.028		0.070	0.028	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Styrene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
tert-Butylbenzene	<0.028		0.070	0.028	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,1,1,2-Tetrachloroethane	<0.032		0.070	0.032	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,1,2,2-Tetrachloroethane	<0.028		0.070	0.028	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Tetrachloroethene	<0.026		0.070	0.026	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Toluene	<0.010		0.018	0.010	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP19 8-10
Date Collected: 07/17/19 18:55
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-19
Matrix: Solid
Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
trans-1,3-Dichloropropene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,2,3-Trichlorobenzene	<0.032		0.070	0.032	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,2,4-Trichlorobenzene	<0.024		0.070	0.024	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,1,1-Trichloroethane	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,1,2-Trichloroethane	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Trichloroethene	<0.011		0.035	0.011	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Trichlorofluoromethane	<0.030		0.070	0.030	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,2,3-Trichloropropane	<0.029		0.14	0.029	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,2,4-Trimethylbenzene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,3,5-Trimethylbenzene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Vinyl chloride	<0.018		0.070	0.018	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Xylenes, Total	<0.015		0.035	0.015	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*07/17/19 18:55*	*07/26/19 12:50*	*50*
Dibromofluoromethane	*106*		*75 - 120*	*07/17/19 18:55*	*07/26/19 12:50*	*50*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*	*07/17/19 18:55*	*07/26/19 12:50*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*07/17/19 18:55*	*07/26/19 12:50*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP19 16-18
Date Collected: 07/17/19 18:15
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-20
Matrix: Solid
Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.10		0.58	0.10	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Benzene	<0.0084		0.014	0.0084	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Bromobenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Bromochloromethane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Bromodichloromethane	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Bromoform	<0.028	*	0.058	0.028	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Bromomethane	<0.046		0.17	0.046	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
2-Butanone (MEK)	<0.12		0.29	0.12	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Carbon tetrachloride	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Chlorobenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Chloroethane	<0.029		0.058	0.029	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Chloroform	<0.021		0.12	0.021	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Chloromethane	<0.018		0.058	0.018	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
2-Chlorotoluene	<0.018		0.058	0.018	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
4-Chlorotoluene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
cis-1,2-Dichloroethene	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
cis-1,3-Dichloropropene	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Dibromochloromethane	<0.028		0.058	0.028	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,2-Dibromo-3-Chloropropane	<0.11	*	0.29	0.11	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,2-Dibromoethane	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Dibromomethane	<0.016	*	0.058	0.016	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,2-Dichlorobenzene	<0.019		0.058	0.019	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,3-Dichlorobenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,4-Dichlorobenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Dichlorodifluoromethane	<0.039		0.17	0.039	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,1-Dichloroethane	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,2-Dichloroethane	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,1-Dichloroethene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,2-Dichloropropane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,3-Dichloropropane	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
2,2-Dichloropropane	<0.026		0.058	0.026	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,1-Dichloropropene	<0.017		0.058	0.017	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Ethylbenzene	<0.011		0.014	0.011	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Hexachlorobutadiene	<0.026		0.058	0.026	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Isopropylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Isopropyl ether	<0.016		0.058	0.016	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Methylene Chloride	<0.094		0.29	0.094	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Methyl tert-butyl ether	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Naphthalene	<0.019		0.058	0.019	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
n-Butylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
N-Propylbenzene	<0.024		0.058	0.024	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
p-Isopropyltoluene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
sec-Butylbenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Styrene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
tert-Butylbenzene	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,1,1,2-Tetrachloroethane	<0.027		0.058	0.027	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,1,2,2-Tetrachloroethane	<0.023		0.058	0.023	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Tetrachloroethene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Toluene	<0.0085		0.014	0.0085	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP19 16-18
Date Collected: 07/17/19 18:15
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-20
Matrix: Solid
Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
trans-1,3-Dichloropropene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,2,3-Trichlorobenzene	<0.026		0.058	0.026	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,2,4-Trichlorobenzene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,1,1-Trichloroethane	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,1,2-Trichloroethane	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Trichloroethene	<0.0094		0.029	0.0094	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Trichlorofluoromethane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,2,3-Trichloropropane	<0.024		0.12	0.024	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,2,4-Trimethylbenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,3,5-Trimethylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Vinyl chloride	<0.015		0.058	0.015	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*07/17/19 18:15*	*07/26/19 13:17*	*50*
Dibromofluoromethane	*104*		*75 - 120*	*07/17/19 18:15*	*07/26/19 13:17*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*	*07/17/19 18:15*	*07/26/19 13:17*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*07/17/19 18:15*	*07/26/19 13:17*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP22 8-10
Date Collected: 07/17/19 17:10
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-21
Matrix: Solid
Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.10		0.59	0.10	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Benzene	<0.0087		0.015	0.0087	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Bromobenzene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Bromochloromethane	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Bromodichloromethane	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Bromoform	<0.029	*	0.059	0.029	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Bromomethane	<0.047		0.18	0.047	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
2-Butanone (MEK)	<0.13		0.30	0.13	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Carbon tetrachloride	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Chlorobenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Chloroethane	<0.030		0.059	0.030	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Chloroform	<0.022		0.12	0.022	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Chloromethane	<0.019		0.059	0.019	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
2-Chlorotoluene	<0.019		0.059	0.019	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
4-Chlorotoluene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
cis-1,2-Dichloroethene	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
cis-1,3-Dichloropropene	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Dibromochloromethane	<0.029		0.059	0.029	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,2-Dibromo-3-Chloropropane	<0.12	*	0.30	0.12	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,2-Dibromoethane	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Dibromomethane	<0.016		0.059	0.016	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,2-Dichlorobenzene	<0.020		0.059	0.020	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,3-Dichlorobenzene	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,4-Dichlorobenzene	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Dichlorodifluoromethane	<0.040		0.18	0.040	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,1-Dichloroethane	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,2-Dichloroethane	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,1-Dichloroethene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,2-Dichloropropane	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,3-Dichloropropane	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
2,2-Dichloropropane	<0.026		0.059	0.026	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,1-Dichloropropene	<0.018		0.059	0.018	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Ethylbenzene	<0.011		0.015	0.011	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Hexachlorobutadiene	<0.026		0.059	0.026	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Isopropylbenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Isopropyl ether	<0.016		0.059	0.016	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Methylene Chloride	<0.097		0.30	0.097	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Methyl tert-butyl ether	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Naphthalene	<0.020		0.059	0.020	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
n-Butylbenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
N-Propylbenzene	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
p-Isopropyltoluene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
sec-Butylbenzene	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Styrene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
tert-Butylbenzene	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,1,1,2-Tetrachloroethane	<0.027		0.059	0.027	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,1,2,2-Tetrachloroethane	<0.024		0.059	0.024	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Tetrachloroethene	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Toluene	<0.0087		0.015	0.0087	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP22 8-10
Date Collected: 07/17/19 17:10
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-21
Matrix: Solid
Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
trans-1,3-Dichloropropene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,2,3-Trichlorobenzene	<0.027		0.059	0.027	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,2,4-Trichlorobenzene	<0.020		0.059	0.020	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,1,1-Trichloroethane	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,1,2-Trichloroethane	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Trichloroethene	<0.0097		0.030	0.0097	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Trichlorofluoromethane	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,2,3-Trichloropropane	<0.025		0.12	0.025	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,2,4-Trimethylbenzene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,3,5-Trimethylbenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Vinyl chloride	<0.016		0.059	0.016	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Xylenes, Total	<0.013		0.030	0.013	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*07/17/19 17:10*	*07/26/19 13:44*	*50*
Dibromofluoromethane	*109*		*75 - 120*	*07/17/19 17:10*	*07/26/19 13:44*	*50*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*	*07/17/19 17:10*	*07/26/19 13:44*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*07/17/19 17:10*	*07/26/19 13:44*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP23 16-18
Date Collected: 07/17/19 18:40
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-22
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.12		0.68	0.12	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Benzene	<0.0099		0.017	0.0099	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Bromobenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Bromochloromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Bromodichloromethane	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Bromoform	<0.033	*	0.068	0.033	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Bromomethane	<0.054		0.20	0.054	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
2-Butanone (MEK)	<0.14		0.34	0.14	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Carbon tetrachloride	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Chlorobenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Chloroethane	<0.034		0.068	0.034	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Chloroform	<0.025		0.14	0.025	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Chloromethane	<0.022		0.068	0.022	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
2-Chlorotoluene	<0.021		0.068	0.021	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
4-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
cis-1,3-Dichloropropene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Dibromochloromethane	<0.033		0.068	0.033	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,2-Dibromo-3-Chloropropane	<0.14	*	0.34	0.14	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,2-Dibromoethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Dibromomethane	<0.018		0.068	0.018	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,2-Dichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,3-Dichlorobenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,4-Dichlorobenzene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Dichlorodifluoromethane	<0.046		0.20	0.046	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,1-Dichloroethane	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,2-Dichloroethane	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,1-Dichloroethene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,2-Dichloropropane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,3-Dichloropropane	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
2,2-Dichloropropane	<0.030		0.068	0.030	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,1-Dichloropropene	<0.020		0.068	0.020	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Hexachlorobutadiene	<0.030		0.068	0.030	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Isopropylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Isopropyl ether	<0.019		0.068	0.019	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Methyl tert-butyl ether	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Naphthalene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
n-Butylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
N-Propylbenzene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
p-Isopropyltoluene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
sec-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Styrene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
tert-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,1,1,2-Tetrachloroethane	<0.031		0.068	0.031	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,1,2,2-Tetrachloroethane	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Tetrachloroethene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Toluene	<0.010		0.017	0.010	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP23 16-18
Date Collected: 07/17/19 18:40
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-22
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
trans-1,3-Dichloropropene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Vinyl chloride	<0.018		0.068	0.018	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*07/17/19 18:40*	*07/26/19 14:11*	*50*
Dibromofluoromethane	*106*		*75 - 120*	*07/17/19 18:40*	*07/26/19 14:11*	*50*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*	*07/17/19 18:40*	*07/26/19 14:11*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*07/17/19 18:40*	*07/26/19 14:11*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP24 2-4
Date Collected: 07/17/19 19:05
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-23
Matrix: Solid
Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.11		0.66	0.11	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Benzene	<0.0097		0.017	0.0097	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Bromobenzene	<0.024		0.066	0.024	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Bromochloromethane	<0.028		0.066	0.028	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Bromodichloromethane	<0.025		0.066	0.025	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Bromoform	<0.032	*	0.066	0.032	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Bromomethane	<0.053		0.20	0.053	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
2-Butanone (MEK)	<0.14		0.33	0.14	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Carbon tetrachloride	<0.025		0.066	0.025	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Chlorobenzene	<0.026		0.066	0.026	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Chloroethane	<0.033		0.066	0.033	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Chloroform	<0.025		0.13	0.025	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Chloromethane	<0.021		0.066	0.021	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
2-Chlorotoluene	<0.021		0.066	0.021	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
4-Chlorotoluene	<0.023		0.066	0.023	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
cis-1,2-Dichloroethene	<0.027		0.066	0.027	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
cis-1,3-Dichloropropene	<0.028		0.066	0.028	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Dibromochloromethane	<0.032		0.066	0.032	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,2-Dibromo-3-Chloropropane	<0.13	*	0.33	0.13	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,2-Dibromoethane	<0.026		0.066	0.026	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Dibromomethane	<0.018		0.066	0.018	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,2-Dichlorobenzene	<0.022		0.066	0.022	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,3-Dichlorobenzene	<0.027		0.066	0.027	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,4-Dichlorobenzene	<0.024		0.066	0.024	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Dichlorodifluoromethane	<0.045		0.20	0.045	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,1-Dichloroethane	<0.027		0.066	0.027	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,2-Dichloroethane	<0.026		0.066	0.026	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,1-Dichloroethene	<0.026		0.066	0.026	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,2-Dichloropropane	<0.028		0.066	0.028	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,3-Dichloropropane	<0.024		0.066	0.024	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
2,2-Dichloropropane	<0.029		0.066	0.029	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,1-Dichloropropene	<0.020		0.066	0.020	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Hexachlorobutadiene	<0.030		0.066	0.030	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Isopropylbenzene	<0.025		0.066	0.025	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Isopropyl ether	<0.018		0.066	0.018	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Methylene Chloride	<0.11		0.33	0.11	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Methyl tert-butyl ether	<0.026		0.066	0.026	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Naphthalene	<0.022		0.066	0.022	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
n-Butylbenzene	<0.026		0.066	0.026	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
N-Propylbenzene	<0.027		0.066	0.027	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
p-Isopropyltoluene	<0.024		0.066	0.024	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
sec-Butylbenzene	<0.026		0.066	0.026	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Styrene	<0.026		0.066	0.026	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
tert-Butylbenzene	<0.026		0.066	0.026	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,1,1,2-Tetrachloroethane	<0.031		0.066	0.031	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,1,2,2-Tetrachloroethane	<0.026		0.066	0.026	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Tetrachloroethene	<0.025		0.066	0.025	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Toluene	<0.0097		0.017	0.0097	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP24 2-4
Date Collected: 07/17/19 19:05
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-23
Matrix: Solid
Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.023		0.066	0.023	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
trans-1,3-Dichloropropene	<0.024		0.066	0.024	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,2,3-Trichlorobenzene	<0.030		0.066	0.030	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,2,4-Trichlorobenzene	<0.023		0.066	0.023	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,1,1-Trichloroethane	<0.025		0.066	0.025	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,1,2-Trichloroethane	<0.023		0.066	0.023	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Trichloroethene	<0.011		0.033	0.011	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Trichlorofluoromethane	<0.028		0.066	0.028	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,2,3-Trichloropropane	<0.027		0.13	0.027	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,2,4-Trimethylbenzene	<0.024		0.066	0.024	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,3,5-Trimethylbenzene	<0.025		0.066	0.025	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Vinyl chloride	<0.017		0.066	0.017	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Xylenes, Total	<0.015		0.033	0.015	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*	*07/17/19 19:05*	*07/26/19 14:38*	*50*
Dibromofluoromethane	*106*		*75 - 120*	*07/17/19 19:05*	*07/26/19 14:38*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*	*07/17/19 19:05*	*07/26/19 14:38*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*07/17/19 19:05*	*07/26/19 14:38*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP24 8-10
Date Collected: 07/17/19 19:20
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-24
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.12		0.68	0.12	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Benzene	<0.010		0.017	0.010	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Bromobenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Bromochloromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Bromodichloromethane	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Bromoform	<0.033	*	0.068	0.033	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Bromomethane	<0.054		0.20	0.054	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
2-Butanone (MEK)	<0.14		0.34	0.14	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Carbon tetrachloride	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Chlorobenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Chloroethane	<0.034		0.068	0.034	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Chloroform	<0.025		0.14	0.025	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Chloromethane	<0.022		0.068	0.022	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
2-Chlorotoluene	<0.021		0.068	0.021	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
4-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
cis-1,3-Dichloropropene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Dibromochloromethane	<0.033		0.068	0.033	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,2-Dibromo-3-Chloropropane	<0.14	*	0.34	0.14	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,2-Dibromoethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Dibromomethane	<0.018		0.068	0.018	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,2-Dichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,3-Dichlorobenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,4-Dichlorobenzene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Dichlorodifluoromethane	<0.046		0.20	0.046	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,1-Dichloroethane	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,2-Dichloroethane	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,1-Dichloroethene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,2-Dichloropropane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,3-Dichloropropane	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
2,2-Dichloropropane	<0.030		0.068	0.030	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,1-Dichloropropene	<0.020		0.068	0.020	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Hexachlorobutadiene	<0.030		0.068	0.030	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Isopropylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Isopropyl ether	<0.019		0.068	0.019	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Methyl tert-butyl ether	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Naphthalene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
n-Butylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
N-Propylbenzene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
p-Isopropyltoluene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
sec-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Styrene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
tert-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,1,1,2-Tetrachloroethane	<0.032		0.068	0.032	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,1,2,2-Tetrachloroethane	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Tetrachloroethene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Toluene	<0.010		0.017	0.010	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP24 8-10
Date Collected: 07/17/19 19:20
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-24
Matrix: Solid
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
trans-1,3-Dichloropropene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Vinyl chloride	<0.018		0.068	0.018	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*07/17/19 19:20*	*07/26/19 15:04*	*50*
Dibromofluoromethane	*107*		*75 - 120*	*07/17/19 19:20*	*07/26/19 15:04*	*50*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*	*07/17/19 19:20*	*07/26/19 15:04*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*07/17/19 19:20*	*07/26/19 15:04*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP25 8-10
Date Collected: 07/17/19 19:00
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-25
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.12		0.69	0.12	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Benzene	<0.010		0.017	0.010	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Bromobenzene	<0.024		0.069	0.024	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Bromochloromethane	<0.029		0.069	0.029	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Bromodichloromethane	<0.026		0.069	0.026	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Bromoform	<0.033	*	0.069	0.033	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Bromomethane	<0.055		0.21	0.055	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
2-Butanone (MEK)	<0.15		0.34	0.15	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Carbon tetrachloride	<0.026		0.069	0.026	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Chlorobenzene	<0.026		0.069	0.026	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Chloroethane	<0.035		0.069	0.035	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Chloroform	<0.025		0.14	0.025	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Chloromethane	<0.022		0.069	0.022	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
2-Chlorotoluene	<0.022		0.069	0.022	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
4-Chlorotoluene	<0.024		0.069	0.024	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
cis-1,2-Dichloroethene	<0.028		0.069	0.028	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
cis-1,3-Dichloropropene	<0.029		0.069	0.029	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Dibromochloromethane	<0.033		0.069	0.033	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,2-Dibromo-3-Chloropropane	<0.14	*	0.34	0.14	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,2-Dibromoethane	<0.026		0.069	0.026	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Dibromomethane	<0.019		0.069	0.019	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,2-Dichlorobenzene	<0.023		0.069	0.023	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,3-Dichlorobenzene	<0.027		0.069	0.027	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,4-Dichlorobenzene	<0.025		0.069	0.025	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Dichlorodifluoromethane	<0.046		0.21	0.046	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,1-Dichloroethane	<0.028		0.069	0.028	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,2-Dichloroethane	<0.027		0.069	0.027	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,1-Dichloroethene	<0.027		0.069	0.027	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,2-Dichloropropane	<0.029		0.069	0.029	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,3-Dichloropropane	<0.025		0.069	0.025	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
2,2-Dichloropropane	<0.030		0.069	0.030	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,1-Dichloropropene	<0.020		0.069	0.020	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Ethylbenzene	<0.013		0.017	0.013	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Hexachlorobutadiene	<0.031		0.069	0.031	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Isopropylbenzene	<0.026		0.069	0.026	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Isopropyl ether	<0.019		0.069	0.019	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Methyl tert-butyl ether	<0.027		0.069	0.027	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Naphthalene	<0.023		0.069	0.023	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
n-Butylbenzene	<0.027		0.069	0.027	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
N-Propylbenzene	<0.028		0.069	0.028	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
p-Isopropyltoluene	<0.025		0.069	0.025	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
sec-Butylbenzene	<0.027		0.069	0.027	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Styrene	<0.026		0.069	0.026	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
tert-Butylbenzene	<0.027		0.069	0.027	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,1,1,2-Tetrachloroethane	<0.032		0.069	0.032	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,1,2,2-Tetrachloroethane	<0.027		0.069	0.027	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Tetrachloroethene	<0.025		0.069	0.025	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Toluene	<0.010		0.017	0.010	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP25 8-10
Date Collected: 07/17/19 19:00
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-25
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.069	0.024	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
trans-1,3-Dichloropropene	<0.025		0.069	0.025	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,2,3-Trichlorobenzene	<0.031		0.069	0.031	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,2,4-Trichlorobenzene	<0.023		0.069	0.023	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,1,1-Trichloroethane	<0.026		0.069	0.026	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,1,2-Trichloroethane	<0.024		0.069	0.024	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Trichlorofluoromethane	<0.029		0.069	0.029	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,2,4-Trimethylbenzene	<0.025		0.069	0.025	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,3,5-Trimethylbenzene	<0.026		0.069	0.026	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Vinyl chloride	<0.018		0.069	0.018	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*07/17/19 19:00*	*07/26/19 16:52*	*50*
Dibromofluoromethane	*108*		*75 - 120*	*07/17/19 19:00*	*07/26/19 16:52*	*50*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*07/17/19 19:00*	*07/26/19 16:52*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*	*07/17/19 19:00*	*07/26/19 16:52*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP26 2-4
Date Collected: 07/17/19 19:10
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-26
Matrix: Solid
Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.12		0.68	0.12	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Benzene	<0.0099		0.017	0.0099	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Bromobenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Bromochloromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Bromodichloromethane	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Bromoform	<0.033	*	0.068	0.033	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Bromomethane	<0.054		0.20	0.054	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
2-Butanone (MEK)	<0.14		0.34	0.14	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Carbon tetrachloride	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Chlorobenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Chloroethane	<0.034		0.068	0.034	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Chloroform	<0.025		0.14	0.025	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Chloromethane	<0.022		0.068	0.022	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
2-Chlorotoluene	<0.021		0.068	0.021	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
4-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
cis-1,3-Dichloropropene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Dibromochloromethane	<0.033		0.068	0.033	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,2-Dibromo-3-Chloropropane	<0.13	*	0.34	0.13	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,2-Dibromoethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Dibromomethane	<0.018		0.068	0.018	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,2-Dichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,3-Dichlorobenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,4-Dichlorobenzene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Dichlorodifluoromethane	<0.046		0.20	0.046	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,1-Dichloroethane	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,2-Dichloroethane	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,1-Dichloroethene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,2-Dichloropropane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,3-Dichloropropane	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
2,2-Dichloropropane	<0.030		0.068	0.030	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,1-Dichloropropene	<0.020		0.068	0.020	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Hexachlorobutadiene	<0.030		0.068	0.030	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Isopropylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Isopropyl ether	<0.019		0.068	0.019	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Methyl tert-butyl ether	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Naphthalene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
n-Butylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
N-Propylbenzene	<0.028		0.068	0.028	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
p-Isopropyltoluene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
sec-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Styrene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
tert-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,1,1,2-Tetrachloroethane	<0.031		0.068	0.031	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,1,2,2-Tetrachloroethane	<0.027		0.068	0.027	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Tetrachloroethene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Toluene	<0.010		0.017	0.010	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP26 2-4
Date Collected: 07/17/19 19:10
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-26
Matrix: Solid
Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
trans-1,3-Dichloropropene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Vinyl chloride	<0.018		0.068	0.018	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*07/17/19 19:10*	*07/26/19 15:31*	*50*
Dibromofluoromethane	*105*		*75 - 120*	*07/17/19 19:10*	*07/26/19 15:31*	*50*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*	*07/17/19 19:10*	*07/26/19 15:31*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*	*07/17/19 19:10*	*07/26/19 15:31*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP27 2-4
Date Collected: 07/17/19 19:15
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-27
Matrix: Solid
Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.092		0.53	0.092	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Benzene	<0.0078		0.013	0.0078	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Bromobenzene	<0.019		0.053	0.019	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Bromochloromethane	<0.023		0.053	0.023	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Bromodichloromethane	<0.020		0.053	0.020	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Bromoform	<0.026	*	0.053	0.026	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Bromomethane	<0.043		0.16	0.043	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
2-Butanone (MEK)	<0.11		0.27	0.11	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Carbon tetrachloride	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Chlorobenzene	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Chloroethane	<0.027		0.053	0.027	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Chloroform	<0.020		0.11	0.020	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Chloromethane	<0.017		0.053	0.017	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
2-Chlorotoluene	<0.017		0.053	0.017	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
4-Chlorotoluene	<0.019		0.053	0.019	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
cis-1,2-Dichloroethene	<0.022		0.053	0.022	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
cis-1,3-Dichloropropene	<0.022		0.053	0.022	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Dibromochloromethane	<0.026		0.053	0.026	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,2-Dibromo-3-Chloropropane	<0.11	*	0.27	0.11	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,2-Dibromoethane	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Dibromomethane	<0.014		0.053	0.014	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,2-Dichlorobenzene	<0.018		0.053	0.018	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,3-Dichlorobenzene	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,4-Dichlorobenzene	<0.019		0.053	0.019	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Dichlorodifluoromethane	<0.036		0.16	0.036	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,1-Dichloroethane	<0.022		0.053	0.022	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,2-Dichloroethane	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,1-Dichloroethene	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,2-Dichloropropane	<0.023		0.053	0.023	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,3-Dichloropropane	<0.019		0.053	0.019	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
2,2-Dichloropropane	<0.024		0.053	0.024	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,1-Dichloropropene	<0.016		0.053	0.016	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Ethylbenzene	<0.0098		0.013	0.0098	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Hexachlorobutadiene	<0.024		0.053	0.024	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Isopropylbenzene	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Isopropyl ether	<0.015		0.053	0.015	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Methylene Chloride	<0.087		0.27	0.087	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Methyl tert-butyl ether	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Naphthalene	<0.018		0.053	0.018	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
n-Butylbenzene	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
N-Propylbenzene	<0.022		0.053	0.022	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
p-Isopropyltoluene	<0.019		0.053	0.019	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
sec-Butylbenzene	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Styrene	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
tert-Butylbenzene	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,1,1,2-Tetrachloroethane	<0.025		0.053	0.025	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,1,2,2-Tetrachloroethane	<0.021		0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Tetrachloroethene	**0.064**		0.053	0.020	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Toluene	<0.0079		0.013	0.0079	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP27 2-4
Date Collected: 07/17/19 19:15
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-27
Matrix: Solid
Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.019		0.053	0.019	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
trans-1,3-Dichloropropene	<0.019		0.053	0.019	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,2,3-Trichlorobenzene	<0.024		0.053	0.024	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,2,4-Trichlorobenzene	<0.018		0.053	0.018	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,1,1-Trichloroethane	<0.020		0.053	0.020	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,1,2-Trichloroethane	<0.019		0.053	0.019	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Trichloroethene	<0.0088		0.027	0.0088	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Trichlorofluoromethane	<0.023		0.053	0.023	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,2,3-Trichloropropane	<0.022		0.11	0.022	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,2,4-Trimethylbenzene	<0.019		0.053	0.019	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,3,5-Trimethylbenzene	<0.020		0.053	0.020	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Vinyl chloride	<0.014		0.053	0.014	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Xylenes, Total	<0.012		0.027	0.012	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*07/17/19 19:15*	*07/26/19 15:58*	*50*
Dibromofluoromethane	*108*		*75 - 120*	*07/17/19 19:15*	*07/26/19 15:58*	*50*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*07/17/19 19:15*	*07/26/19 15:58*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*07/17/19 19:15*	*07/26/19 15:58*	*50*

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP21 16-18
Date Collected: 07/17/19 18:30
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-28
Matrix: Solid
Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.11		0.65	0.11	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Benzene	<0.0094		0.016	0.0094	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Bromobenzene	<0.023		0.065	0.023	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Bromochloromethane	<0.028		0.065	0.028	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Bromodichloromethane	<0.024		0.065	0.024	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Bromoform	<0.031	*	0.065	0.031	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Bromomethane	<0.051		0.19	0.051	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
2-Butanone (MEK)	<0.14		0.32	0.14	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Carbon tetrachloride	<0.025		0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Chlorobenzene	<0.025		0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Chloroethane	<0.033		0.065	0.033	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Chloroform	<0.024		0.13	0.024	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Chloromethane	<0.021		0.065	0.021	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
2-Chlorotoluene	<0.020		0.065	0.020	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
4-Chlorotoluene	<0.023		0.065	0.023	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
cis-1,2-Dichloroethene	<0.026		0.065	0.026	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
cis-1,3-Dichloropropene	<0.027		0.065	0.027	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Dibromochloromethane	<0.032		0.065	0.032	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,2-Dibromo-3-Chloropropane	<0.13	*	0.32	0.13	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,2-Dibromoethane	<0.025		0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Dibromomethane	<0.017		0.065	0.017	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,2-Dichlorobenzene	<0.022		0.065	0.022	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,3-Dichlorobenzene	<0.026		0.065	0.026	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,4-Dichlorobenzene	<0.024		0.065	0.024	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Dichlorodifluoromethane	<0.044		0.19	0.044	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,1-Dichloroethane	<0.026		0.065	0.026	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,2-Dichloroethane	<0.025		0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,1-Dichloroethene	<0.025		0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,2-Dichloropropane	<0.028		0.065	0.028	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,3-Dichloropropane	<0.023		0.065	0.023	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
2,2-Dichloropropane	<0.029		0.065	0.029	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,1-Dichloropropene	<0.019		0.065	0.019	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Ethylbenzene	**0.29**		0.016	0.012	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Hexachlorobutadiene	<0.029		0.065	0.029	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Isopropylbenzene	<0.025		0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Isopropyl ether	<0.018		0.065	0.018	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Methylene Chloride	<0.11		0.32	0.11	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Methyl tert-butyl ether	<0.025		0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Naphthalene	**0.036**	**J**	0.065	0.022	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
n-Butylbenzene	<0.025		0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
N-Propylbenzene	**0.10**		0.065	0.027	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
p-Isopropyltoluene	<0.023		0.065	0.023	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
sec-Butylbenzene	<0.026		0.065	0.026	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Styrene	<0.025		0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
tert-Butylbenzene	<0.026		0.065	0.026	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,1,1,2-Tetrachloroethane	<0.030		0.065	0.030	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,1,2,2-Tetrachloroethane	<0.026		0.065	0.026	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Tetrachloroethene	<0.024		0.065	0.024	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Toluene	<0.0095		0.016	0.0095	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP21 16-18
Date Collected: 07/17/19 18:30
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-28
Matrix: Solid
Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.023		0.065	0.023	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
trans-1,3-Dichloropropene	<0.023		0.065	0.023	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,2,3-Trichlorobenzene	<0.030		0.065	0.030	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,2,4-Trichlorobenzene	<0.022		0.065	0.022	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,1,1-Trichloroethane	<0.025		0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,1,2-Trichloroethane	<0.023		0.065	0.023	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Trichloroethene	<0.011		0.032	0.011	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Trichlorofluoromethane	<0.028		0.065	0.028	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,2,3-Trichloropropane	<0.027		0.13	0.027	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,2,4-Trimethylbenzene	<0.023		0.065	0.023	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,3,5-Trimethylbenzene	<0.025		0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Vinyl chloride	<0.017		0.065	0.017	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Xylenes, Total	<0.014		0.032	0.014	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*07/17/19 18:30*	*07/26/19 16:25*	*50*
Dibromofluoromethane	*109*		*75 - 120*	*07/17/19 18:30*	*07/26/19 16:25*	*50*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*	*07/17/19 18:30*	*07/26/19 16:25*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*07/17/19 18:30*	*07/26/19 16:25*	*50*

Client: Key Engineering Group, Ltd. Job ID: 500-166949-1
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
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.

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: 496278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-1	SP20 16-18	Total/NA	Solid	5035	
500-166949-2	SP11 1-3	Total/NA	Solid	5035	
500-166949-3	SP12 8-10	Total/NA	Solid	5035	
500-166949-4	SP13 7-9	Total/NA	Solid	5035	
500-166949-5	SP15 2-4	Total/NA	Solid	5035	
500-166949-6	SP16 2-4	Total/NA	Solid	5035	
500-166949-7	SP17 2-4	Total/NA	Solid	5035	
500-166949-8	SP18 2-4	Total/NA	Solid	5035	
500-166949-9	SP19 2-4	Total/NA	Solid	5035	
500-166949-10	SP11 7-9	Total/NA	Solid	5035	
500-166949-11	SP15 8-10	Total/NA	Solid	5035	
500-166949-12	SP15 16-18	Total/NA	Solid	5035	
500-166949-13	SP16 8-10	Total/NA	Solid	5035	
500-166949-14	SP16 16-18	Total/NA	Solid	5035	
500-166949-15	SP17 8-10	Total/NA	Solid	5035	
500-166949-16	SP17 16-18	Total/NA	Solid	5035	
500-166949-17	SP18 8-10	Total/NA	Solid	5035	
500-166949-18	SP18 16-18	Total/NA	Solid	5035	
500-166949-19	SP19 8-10	Total/NA	Solid	5035	
500-166949-20	SP19 16-18	Total/NA	Solid	5035	
LB3 500-496278/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-496278/22-A	Lab Control Sample	Total/NA	Solid	5035	
500-166949-15 MS	SP17 8-10	Total/NA	Solid	5035	
500-166949-15 MSD	SP17 8-10	Total/NA	Solid	5035	

Prep Batch: 496279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-21	SP22 8-10	Total/NA	Solid	5035	
500-166949-22	SP23 16-18	Total/NA	Solid	5035	
500-166949-23	SP24 2-4	Total/NA	Solid	5035	
500-166949-24	SP24 8-10	Total/NA	Solid	5035	
500-166949-25	SP25 8-10	Total/NA	Solid	5035	
500-166949-26	SP26 2-4	Total/NA	Solid	5035	
500-166949-27	SP27 2-4	Total/NA	Solid	5035	
500-166949-28	SP21 16-18	Total/NA	Solid	5035	
LB3 500-496279/20-A	Method Blank	Total/NA	Solid	5035	
LCS 500-496279/21-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 496533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-1	SP20 16-18	Total/NA	Solid	8260B	496278
500-166949-2	SP11 1-3	Total/NA	Solid	8260B	496278
500-166949-3	SP12 8-10	Total/NA	Solid	8260B	496278
500-166949-4	SP13 7-9	Total/NA	Solid	8260B	496278
500-166949-5	SP15 2-4	Total/NA	Solid	8260B	496278
500-166949-6	SP16 2-4	Total/NA	Solid	8260B	496278
500-166949-7	SP17 2-4	Total/NA	Solid	8260B	496278
500-166949-8	SP18 2-4	Total/NA	Solid	8260B	496278
500-166949-9	SP19 2-4	Total/NA	Solid	8260B	496278
500-166949-10	SP11 7-9	Total/NA	Solid	8260B	496278
500-166949-11	SP15 8-10	Total/NA	Solid	8260B	496278

GC/MS VOA (Continued)

Analysis Batch: 496533 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-12	SP15 16-18	Total/NA	Solid	8260B	496278
500-166949-13	SP16 8-10	Total/NA	Solid	8260B	496278
500-166949-14	SP16 16-18	Total/NA	Solid	8260B	496278
500-166949-15	SP17 8-10	Total/NA	Solid	8260B	496278
LB3 500-496278/21-A	Method Blank	Total/NA	Solid	8260B	496278
MB 500-496533/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-496278/22-A	Lab Control Sample	Total/NA	Solid	8260B	496278
LCS 500-496533/28	Lab Control Sample	Total/NA	Solid	8260B	
500-166949-15 MS	SP17 8-10	Total/NA	Solid	8260B	496278
500-166949-15 MSD	SP17 8-10	Total/NA	Solid	8260B	496278

Analysis Batch: 496764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-16	SP17 16-18	Total/NA	Solid	8260B	496278
500-166949-17	SP18 8-10	Total/NA	Solid	8260B	496278
500-166949-18	SP18 16-18	Total/NA	Solid	8260B	496278
500-166949-19	SP19 8-10	Total/NA	Solid	8260B	496278
500-166949-20	SP19 16-18	Total/NA	Solid	8260B	496278
500-166949-21	SP22 8-10	Total/NA	Solid	8260B	496279
500-166949-22	SP23 16-18	Total/NA	Solid	8260B	496279
500-166949-23	SP24 2-4	Total/NA	Solid	8260B	496279
500-166949-24	SP24 8-10	Total/NA	Solid	8260B	496279
500-166949-25	SP25 8-10	Total/NA	Solid	8260B	496279
500-166949-26	SP26 2-4	Total/NA	Solid	8260B	496279
500-166949-27	SP27 2-4	Total/NA	Solid	8260B	496279
500-166949-28	SP21 16-18	Total/NA	Solid	8260B	496279
LB3 500-496279/20-A	Method Blank	Total/NA	Solid	8260B	496279
MB 500-496764/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-496279/21-A	Lab Control Sample	Total/NA	Solid	8260B	496279
LCS 500-496764/4	Lab Control Sample	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 496136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-1	SP20 16-18	Total/NA	Solid	Moisture	
500-166949-2	SP11 1-3	Total/NA	Solid	Moisture	
500-166949-3	SP12 8-10	Total/NA	Solid	Moisture	

Analysis Batch: 496156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-4	SP13 7-9	Total/NA	Solid	Moisture	
500-166949-5	SP15 2-4	Total/NA	Solid	Moisture	
500-166949-6	SP16 2-4	Total/NA	Solid	Moisture	
500-166949-7	SP17 2-4	Total/NA	Solid	Moisture	
500-166949-8	SP18 2-4	Total/NA	Solid	Moisture	
500-166949-9	SP19 2-4	Total/NA	Solid	Moisture	
500-166949-10	SP11 7-9	Total/NA	Solid	Moisture	
500-166949-11	SP15 8-10	Total/NA	Solid	Moisture	
500-166949-12	SP15 16-18	Total/NA	Solid	Moisture	
500-166949-13	SP16 8-10	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 496156 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-14	SP16 16-18	Total/NA	Solid	Moisture	
500-166949-15	SP17 8-10	Total/NA	Solid	Moisture	
500-166949-16	SP17 16-18	Total/NA	Solid	Moisture	
500-166949-17	SP18 8-10	Total/NA	Solid	Moisture	
500-166949-18	SP18 16-18	Total/NA	Solid	Moisture	
500-166949-19	SP19 8-10	Total/NA	Solid	Moisture	
500-166949-20	SP19 16-18	Total/NA	Solid	Moisture	
500-166949-21	SP22 8-10	Total/NA	Solid	Moisture	
500-166949-22	SP23 16-18	Total/NA	Solid	Moisture	
500-166949-23	SP24 2-4	Total/NA	Solid	Moisture	
500-166949-4 DU	SP13 7-9	Total/NA	Solid	Moisture	

Analysis Batch: 496172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-24	SP24 8-10	Total/NA	Solid	Moisture	
500-166949-25	SP25 8-10	Total/NA	Solid	Moisture	
500-166949-26	SP26 2-4	Total/NA	Solid	Moisture	
500-166949-27	SP27 2-4	Total/NA	Solid	Moisture	
500-166949-28	SP21 16-18	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-166949-1	SP20 16-18	92	107	104	97
500-166949-2	SP11 1-3	92	108	104	95
500-166949-3	SP12 8-10	95	112	109	93
500-166949-4	SP13 7-9	95	107	104	96
500-166949-5	SP15 2-4	93	108	106	94
500-166949-6	SP16 2-4	94	110	110	95
500-166949-7	SP17 2-4	92	110	113	92
500-166949-8	SP18 2-4	94	109	108	94
500-166949-9	SP19 2-4	92	109	108	92
500-166949-10	SP11 7-9	95	111	110	94
500-166949-11	SP15 8-10	98	110	110	94
500-166949-12	SP15 16-18	98	111	113	94
500-166949-13	SP16 8-10	96	111	109	94
500-166949-14	SP16 16-18	95	113	109	93
500-166949-15	SP17 8-10	94	111	114	94
500-166949-15 MS	SP17 8-10	99	112	109	94
500-166949-15 MSD	SP17 8-10	96	111	109	94
500-166949-16	SP17 16-18	94	104	101	96
500-166949-17	SP18 8-10	93	102	101	97
500-166949-18	SP18 16-18	93	105	103	97
500-166949-19	SP19 8-10	94	106	104	97
500-166949-20	SP19 16-18	93	104	103	96
500-166949-21	SP22 8-10	94	109	104	96
500-166949-22	SP23 16-18	93	106	105	96
500-166949-23	SP24 2-4	96	106	103	95
500-166949-24	SP24 8-10	95	107	106	95
500-166949-25	SP25 8-10	95	108	110	93
500-166949-26	SP26 2-4	93	105	108	93
500-166949-27	SP27 2-4	95	108	109	95
500-166949-28	SP21 16-18	94	109	107	95
LB3 500-496278/21-A	Method Blank	93	102	97	98
LB3 500-496279/20-A	Method Blank	94	102	101	98
LCS 500-496278/22-A	Lab Control Sample	95	110	107	95
LCS 500-496279/21-A	Lab Control Sample	95	108	105	94
LCS 500-496533/28	Lab Control Sample	94	108	105	96
LCS 500-496764/4	Lab Control Sample	95	108	104	96
MB 500-496533/6	Method Blank	93	106	108	96
MB 500-496764/6	Method Blank	93	106	106	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: LB3 500-496278/21-A
Matrix: Solid
Analysis Batch: 496533

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 496278

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.087		0.50	0.087	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Benzene	<0.0073		0.013	0.0073	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Bromobenzene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Bromochloromethane	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Bromodichloromethane	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Bromoform	<0.024		0.050	0.024	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Bromomethane	<0.040		0.15	0.040	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
2-Butanone (MEK)	<0.11		0.25	0.11	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Carbon tetrachloride	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Chlorobenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Chloroethane	<0.025		0.050	0.025	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Chloroform	<0.019		0.10	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Chloromethane	<0.016		0.050	0.016	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
2-Chlorotoluene	<0.016		0.050	0.016	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
4-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
cis-1,2-Dichloroethene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
cis-1,3-Dichloropropene	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Dibromochloromethane	<0.024		0.050	0.024	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2-Dibromo-3-Chloropropane	<0.10		0.25	0.10	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2-Dibromoethane	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Dibromomethane	<0.014		0.050	0.014	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2-Dichlorobenzene	<0.017		0.050	0.017	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,4-Dichlorobenzene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Dichlorodifluoromethane	<0.034		0.15	0.034	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1-Dichloroethane	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2-Dichloroethane	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1-Dichloroethene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2-Dichloropropane	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,3-Dichloropropane	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
2,2-Dichloropropane	<0.022		0.050	0.022	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1-Dichloropropene	<0.015		0.050	0.015	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Ethylbenzene	<0.0092		0.013	0.0092	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Hexachlorobutadiene	<0.022		0.050	0.022	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Isopropylbenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Isopropyl ether	<0.014		0.050	0.014	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Methylene Chloride	<0.082		0.25	0.082	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Methyl tert-butyl ether	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Naphthalene	0.0176	J	0.050	0.017	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
n-Butylbenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
N-Propylbenzene	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
p-Isopropyltoluene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
sec-Butylbenzene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Styrene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
tert-Butylbenzene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1,1,2-Tetrachloroethane	<0.023		0.050	0.023	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1,2,2-Tetrachloroethane	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50

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

Lab Sample ID: LB3 500-496278/21-A
Matrix: Solid
Analysis Batch: 496533

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 496278

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.0074		0.013	0.0074	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
trans-1,2-Dichloroethene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
trans-1,3-Dichloropropene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2,3-Trichlorobenzene	<0.023		0.050	0.023	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2,4-Trichlorobenzene	<0.017		0.050	0.017	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1,1-Trichloroethane	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1,2-Trichloroethane	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Trichloroethene	<0.0082		0.025	0.0082	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Trichlorofluoromethane	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2,3-Trichloropropane	<0.021		0.10	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2,4-Trimethylbenzene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,3,5-Trimethylbenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Vinyl chloride	<0.013		0.050	0.013	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Xylenes, Total	<0.011		0.025	0.011	mg/Kg		07/24/19 00:05	07/25/19 12:16	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*07/24/19 00:05*	*07/25/19 12:16*	*50*
Dibromofluoromethane	*102*		*75 - 120*	*07/24/19 00:05*	*07/25/19 12:16*	*50*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*07/24/19 00:05*	*07/25/19 12:16*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*07/24/19 00:05*	*07/25/19 12:16*	*50*

Lab Sample ID: LCS 500-496278/22-A
Matrix: Solid
Analysis Batch: 496533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 496278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	2.50	2.64		mg/Kg		106	40 - 143
Benzene	2.50	2.49		mg/Kg		100	70 - 120
Bromobenzene	2.50	2.57		mg/Kg		103	70 - 122
Bromochloromethane	2.50	2.84		mg/Kg		113	65 - 122
Bromodichloromethane	2.50	2.75		mg/Kg		110	69 - 120
Bromoform	2.50	3.66	*	mg/Kg		146	56 - 132
Bromomethane	2.50	2.19		mg/Kg		88	40 - 152
2-Butanone (MEK)	2.50	2.83		mg/Kg		113	46 - 144
Carbon tetrachloride	2.50	2.79		mg/Kg		111	59 - 133
Chlorobenzene	2.50	2.51		mg/Kg		101	70 - 120
Chloroethane	2.50	1.87		mg/Kg		75	48 - 136
Chloroform	2.50	2.49		mg/Kg		100	70 - 120
Chloromethane	2.50	1.89		mg/Kg		76	56 - 152
2-Chlorotoluene	2.50	2.42		mg/Kg		97	70 - 125
4-Chlorotoluene	2.50	2.41		mg/Kg		96	68 - 124
cis-1,2-Dichloroethene	2.50	2.61		mg/Kg		104	70 - 125
cis-1,3-Dichloropropene	2.50	2.58		mg/Kg		103	64 - 127
Dibromochloromethane	2.50	3.10		mg/Kg		124	68 - 125
1,2-Dibromo-3-Chloropropane	2.50	3.38	*	mg/Kg		135	56 - 123
1,2-Dibromoethane	2.50	2.83		mg/Kg		113	70 - 125
Dibromomethane	2.50	3.05	*	mg/Kg		122	70 - 120
1,2-Dichlorobenzene	2.50	2.46		mg/Kg		98	70 - 125

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

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

Lab Sample ID: LCS 500-496278/22-A
Matrix: Solid
Analysis Batch: 496533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 496278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	2.50	2.41		mg/Kg		97	70 - 125
1,4-Dichlorobenzene	2.50	2.44		mg/Kg		98	70 - 120
Dichlorodifluoromethane	2.50	1.26		mg/Kg		50	40 - 159
1,1-Dichloroethane	2.50	2.44		mg/Kg		98	70 - 125
1,2-Dichloroethane	2.50	2.65		mg/Kg		106	68 - 127
1,1-Dichloroethene	2.50	2.38		mg/Kg		95	67 - 122
1,2-Dichloropropane	2.50	2.56		mg/Kg		103	67 - 130
1,3-Dichloropropane	2.50	2.86		mg/Kg		114	62 - 136
2,2-Dichloropropane	2.50	2.30		mg/Kg		92	58 - 139
1,1-Dichloropropene	2.50	2.44		mg/Kg		98	70 - 121
Ethylbenzene	2.50	2.44		mg/Kg		97	70 - 123
Hexachlorobutadiene	2.50	2.03		mg/Kg		81	51 - 150
Isopropylbenzene	2.50	2.27		mg/Kg		91	70 - 126
Methylene Chloride	2.50	2.58		mg/Kg		103	69 - 125
Methyl tert-butyl ether	2.50	2.74		mg/Kg		110	55 - 123
Naphthalene	2.50	2.55		mg/Kg		102	53 - 144
n-Butylbenzene	2.50	2.20		mg/Kg		88	68 - 125
N-Propylbenzene	2.50	2.33		mg/Kg		93	69 - 127
p-Isopropyltoluene	2.50	2.24		mg/Kg		89	70 - 125
sec-Butylbenzene	2.50	2.28		mg/Kg		91	70 - 123
Styrene	2.50	2.51		mg/Kg		100	70 - 120
tert-Butylbenzene	2.50	2.23		mg/Kg		89	70 - 121
1,1,1,2-Tetrachloroethane	2.50	2.86		mg/Kg		114	70 - 125
1,1,2,2-Tetrachloroethane	2.50	2.96		mg/Kg		118	62 - 140
Tetrachloroethene	2.50	2.27		mg/Kg		91	70 - 128
Toluene	2.50	2.33		mg/Kg		93	70 - 125
trans-1,2-Dichloroethene	2.50	2.52		mg/Kg		101	70 - 125
trans-1,3-Dichloropropene	2.50	2.70		mg/Kg		108	62 - 128
1,2,3-Trichlorobenzene	2.50	2.25		mg/Kg		90	51 - 145
1,2,4-Trichlorobenzene	2.50	2.15		mg/Kg		86	57 - 137
1,1,1-Trichloroethane	2.50	2.42		mg/Kg		97	70 - 125
1,1,2-Trichloroethane	2.50	2.75		mg/Kg		110	71 - 130
Trichloroethene	2.50	2.48		mg/Kg		99	70 - 125
Trichlorofluoromethane	2.50	2.30		mg/Kg		92	55 - 128
1,2,3-Trichloropropane	2.50	2.98		mg/Kg		119	50 - 133
1,2,4-Trimethylbenzene	2.50	2.30		mg/Kg		92	70 - 123
1,3,5-Trimethylbenzene	2.50	2.30		mg/Kg		92	70 - 123
Vinyl chloride	2.50	1.88		mg/Kg		75	64 - 126
Xylenes, Total	5.00	4.93		mg/Kg		99	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*
Dibromofluoromethane	*110*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*
Toluene-d8 (Surr)	*95*		*75 - 120*

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

Lab Sample ID: 500-166949-15 MS
Matrix: Solid
Analysis Batch: 496533

Client Sample ID: SP17 8-10
Prep Type: Total/NA
Prep Batch: 496278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	<0.093		2.68	2.77		mg/Kg	☼	103	40 - 143
Benzene	<0.0078		2.68	2.69		mg/Kg	☼	100	70 - 120
Bromobenzene	<0.019		2.68	2.76		mg/Kg	☼	103	70 - 122
Bromochloromethane	<0.023		2.68	3.13		mg/Kg	☼	117	65 - 122
Bromodichloromethane	<0.020		2.68	3.05		mg/Kg	☼	114	69 - 120
Bromoform	<0.026	F1 *	2.68	3.97	F1	mg/Kg	☼	148	56 - 132
Bromomethane	<0.043		2.68	2.63		mg/Kg	☼	98	40 - 152
2-Butanone (MEK)	<0.11		2.68	3.27		mg/Kg	☼	122	46 - 144
Carbon tetrachloride	<0.021		2.68	2.98		mg/Kg	☼	111	59 - 133
Chlorobenzene	<0.021		2.68	2.61		mg/Kg	☼	98	70 - 120
Chloroethane	<0.027		2.68	2.21		mg/Kg	☼	82	48 - 136
Chloroform	<0.020		2.68	2.67		mg/Kg	☼	100	70 - 120
Chloromethane	<0.017		2.68	2.51		mg/Kg	☼	94	56 - 152
2-Chlorotoluene	<0.017		2.68	2.60		mg/Kg	☼	97	70 - 125
4-Chlorotoluene	<0.019		2.68	2.57		mg/Kg	☼	96	68 - 124
cis-1,2-Dichloroethene	<0.022		2.68	2.78		mg/Kg	☼	104	70 - 125
cis-1,3-Dichloropropene	<0.022		2.68	2.74		mg/Kg	☼	102	64 - 127
Dibromochloromethane	<0.026		2.68	3.28		mg/Kg	☼	122	68 - 125
1,2-Dibromo-3-Chloropropane	<0.11	F1 *	2.68	3.94	F1	mg/Kg	☼	147	56 - 123
1,2-Dibromoethane	<0.021		2.68	2.99		mg/Kg	☼	112	70 - 125
Dibromomethane	<0.014	F1 *	2.68	3.21		mg/Kg	☼	120	70 - 120
1,2-Dichlorobenzene	<0.018		2.68	2.67		mg/Kg	☼	100	70 - 125
1,3-Dichlorobenzene	<0.021		2.68	2.57		mg/Kg	☼	96	70 - 125
1,4-Dichlorobenzene	<0.020		2.68	2.65		mg/Kg	☼	99	70 - 120
Dichlorodifluoromethane	<0.036		2.68	2.28		mg/Kg	☼	85	40 - 159
1,1-Dichloroethane	<0.022		2.68	2.58		mg/Kg	☼	96	70 - 125
1,2-Dichloroethane	<0.021		2.68	2.88		mg/Kg	☼	108	68 - 127
1,1-Dichloroethene	<0.021		2.68	2.49		mg/Kg	☼	93	67 - 122
1,2-Dichloropropane	<0.023		2.68	2.72		mg/Kg	☼	101	67 - 130
1,3-Dichloropropane	<0.019		2.68	3.05		mg/Kg	☼	114	62 - 136
2,2-Dichloropropane	<0.024		2.68	2.52		mg/Kg	☼	94	58 - 139
1,1-Dichloropropene	<0.016		2.68	2.57		mg/Kg	☼	96	70 - 121
Ethylbenzene	<0.0098		2.68	2.59		mg/Kg	☼	97	70 - 123
Hexachlorobutadiene	<0.024		2.68	2.08		mg/Kg	☼	78	51 - 150
Isopropylbenzene	<0.021		2.68	2.46		mg/Kg	☼	92	70 - 126
Methylene Chloride	<0.087		2.68	2.77		mg/Kg	☼	103	69 - 125
Methyl tert-butyl ether	<0.021		2.68	3.07		mg/Kg	☼	114	55 - 123
Naphthalene	<0.018		2.68	2.96		mg/Kg	☼	110	53 - 144
n-Butylbenzene	<0.021		2.68	2.34		mg/Kg	☼	87	68 - 125
N-Propylbenzene	<0.022		2.68	2.48		mg/Kg	☼	92	69 - 127
p-Isopropyltoluene	<0.019		2.68	2.35		mg/Kg	☼	88	70 - 125
sec-Butylbenzene	<0.021		2.68	2.42		mg/Kg	☼	90	70 - 123
Styrene	<0.021		2.68	2.64		mg/Kg	☼	98	70 - 120
tert-Butylbenzene	<0.021		2.68	2.36		mg/Kg	☼	88	70 - 121
1,1,1,2-Tetrachloroethane	<0.025		2.68	3.00		mg/Kg	☼	112	70 - 125
1,1,2,2-Tetrachloroethane	<0.021		2.68	3.33		mg/Kg	☼	124	62 - 140
Tetrachloroethene	<0.020		2.68	2.40		mg/Kg	☼	90	70 - 128
Toluene	<0.0079		2.68	2.47		mg/Kg	☼	92	70 - 125

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

Lab Sample ID: 500-166949-15 MS
Matrix: Solid
Analysis Batch: 496533

Client Sample ID: SP17 8-10
Prep Type: Total/NA
Prep Batch: 496278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	<0.019		2.68	2.65		mg/Kg	☼	99	70 - 125
trans-1,3-Dichloropropene	<0.019		2.68	2.92		mg/Kg	☼	109	62 - 128
1,2,3-Trichlorobenzene	<0.025		2.68	2.47		mg/Kg	☼	92	51 - 145
1,2,4-Trichlorobenzene	<0.018		2.68	2.33		mg/Kg	☼	87	57 - 137
1,1,1-Trichloroethane	<0.020		2.68	2.61		mg/Kg	☼	98	70 - 125
1,1,2-Trichloroethane	<0.019		2.68	3.07		mg/Kg	☼	114	71 - 130
Trichloroethene	<0.0088		2.68	2.66		mg/Kg	☼	99	70 - 125
Trichlorofluoromethane	<0.023		2.68	2.72		mg/Kg	☼	101	55 - 128
1,2,3-Trichloropropane	<0.022		2.68	3.38		mg/Kg	☼	126	50 - 133
1,2,4-Trimethylbenzene	<0.019		2.68	2.46		mg/Kg	☼	92	70 - 123
1,3,5-Trimethylbenzene	<0.020		2.68	2.46		mg/Kg	☼	92	70 - 123
Vinyl chloride	<0.014		2.68	2.20		mg/Kg	☼	82	64 - 126
Xylenes, Total	<0.012		5.36	5.07		mg/Kg	☼	95	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*112*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

Lab Sample ID: 500-166949-15 MSD
Matrix: Solid
Analysis Batch: 496533

Client Sample ID: SP17 8-10
Prep Type: Total/NA
Prep Batch: 496278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	<0.093		2.68	2.71		mg/Kg	☼	101	40 - 143	2	30
Benzene	<0.0078		2.68	2.75		mg/Kg	☼	102	70 - 120	2	30
Bromobenzene	<0.019		2.68	2.77		mg/Kg	☼	103	70 - 122	0	30
Bromochloromethane	<0.023		2.68	3.11		mg/Kg	☼	116	65 - 122	1	30
Bromodichloromethane	<0.020		2.68	3.05		mg/Kg	☼	114	69 - 120	0	30
Bromoform	<0.026	F1 *	2.68	3.98	F1	mg/Kg	☼	149	56 - 132	0	30
Bromomethane	<0.043		2.68	2.73		mg/Kg	☼	102	40 - 152	4	30
2-Butanone (MEK)	<0.11		2.68	3.05		mg/Kg	☼	114	46 - 144	7	30
Carbon tetrachloride	<0.021		2.68	2.95		mg/Kg	☼	110	59 - 133	1	30
Chlorobenzene	<0.021		2.68	2.67		mg/Kg	☼	100	70 - 120	2	30
Chloroethane	<0.027		2.68	2.30		mg/Kg	☼	86	48 - 136	4	30
Chloroform	<0.020		2.68	2.71		mg/Kg	☼	101	70 - 120	2	30
Chloromethane	<0.017		2.68	2.42		mg/Kg	☼	90	56 - 152	4	30
2-Chlorotoluene	<0.017		2.68	2.60		mg/Kg	☼	97	70 - 125	0	30
4-Chlorotoluene	<0.019		2.68	2.58		mg/Kg	☼	96	68 - 124	0	30
cis-1,2-Dichloroethene	<0.022		2.68	2.87		mg/Kg	☼	107	70 - 125	3	30
cis-1,3-Dichloropropene	<0.022		2.68	2.72		mg/Kg	☼	102	64 - 127	1	30
Dibromochloromethane	<0.026		2.68	3.26		mg/Kg	☼	122	68 - 125	1	30
1,2-Dibromo-3-Chloropropane	<0.11	F1 *	2.68	3.82	F1	mg/Kg	☼	142	56 - 123	3	30
1,2-Dibromoethane	<0.021		2.68	3.00		mg/Kg	☼	112	70 - 125	0	30
Dibromomethane	<0.014	F1 *	2.68	3.36	F1	mg/Kg	☼	125	70 - 120	5	30
1,2-Dichlorobenzene	<0.018		2.68	2.70		mg/Kg	☼	101	70 - 125	1	30
1,3-Dichlorobenzene	<0.021		2.68	2.59		mg/Kg	☼	97	70 - 125	1	30

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

Lab Sample ID: 500-166949-15 MSD
Matrix: Solid
Analysis Batch: 496533

Client Sample ID: SP17 8-10
Prep Type: Total/NA
Prep Batch: 496278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	<0.020		2.68	2.64		mg/Kg	☼	99	70 - 120	0	30
Dichlorodifluoromethane	<0.036		2.68	2.06		mg/Kg	☼	77	40 - 159	10	30
1,1-Dichloroethane	<0.022		2.68	2.63		mg/Kg	☼	98	70 - 125	2	30
1,2-Dichloroethane	<0.021		2.68	2.91		mg/Kg	☼	108	68 - 127	1	30
1,1-Dichloroethene	<0.021		2.68	2.50		mg/Kg	☼	93	67 - 122	0	30
1,2-Dichloropropane	<0.023		2.68	2.71		mg/Kg	☼	101	67 - 130	0	30
1,3-Dichloropropane	<0.019		2.68	3.02		mg/Kg	☼	113	62 - 136	1	30
2,2-Dichloropropane	<0.024		2.68	2.48		mg/Kg	☼	92	58 - 139	2	30
1,1-Dichloropropene	<0.016		2.68	2.65		mg/Kg	☼	99	70 - 121	3	30
Ethylbenzene	<0.0098		2.68	2.60		mg/Kg	☼	97	70 - 123	0	30
Hexachlorobutadiene	<0.024		2.68	2.08		mg/Kg	☼	77	51 - 150	0	30
Isopropylbenzene	<0.021		2.68	2.44		mg/Kg	☼	91	70 - 126	1	30
Methylene Chloride	<0.087		2.68	2.87		mg/Kg	☼	107	69 - 125	4	30
Methyl tert-butyl ether	<0.021		2.68	2.98		mg/Kg	☼	111	55 - 123	3	30
Naphthalene	<0.018		2.68	2.92		mg/Kg	☼	109	53 - 144	1	30
n-Butylbenzene	<0.021		2.68	2.34		mg/Kg	☼	87	68 - 125	0	30
N-Propylbenzene	<0.022		2.68	2.47		mg/Kg	☼	92	69 - 127	0	30
p-Isopropyltoluene	<0.019		2.68	2.37		mg/Kg	☼	88	70 - 125	1	30
sec-Butylbenzene	<0.021		2.68	2.37		mg/Kg	☼	89	70 - 123	2	30
Styrene	<0.021		2.68	2.67		mg/Kg	☼	100	70 - 120	1	30
tert-Butylbenzene	<0.021		2.68	2.36		mg/Kg	☼	88	70 - 121	0	30
1,1,1,2-Tetrachloroethane	<0.025		2.68	3.06		mg/Kg	☼	114	70 - 125	2	30
1,1,2,2-Tetrachloroethane	<0.021		2.68	3.24		mg/Kg	☼	121	62 - 140	3	30
Tetrachloroethene	<0.020		2.68	2.38		mg/Kg	☼	89	70 - 128	1	30
Toluene	<0.0079		2.68	2.45		mg/Kg	☼	91	70 - 125	1	30
trans-1,2-Dichloroethene	<0.019		2.68	2.62		mg/Kg	☼	98	70 - 125	1	30
trans-1,3-Dichloropropene	<0.019		2.68	2.84		mg/Kg	☼	106	62 - 128	3	30
1,2,3-Trichlorobenzene	<0.025		2.68	2.55		mg/Kg	☼	95	51 - 145	3	30
1,2,4-Trichlorobenzene	<0.018		2.68	2.36		mg/Kg	☼	88	57 - 137	1	30
1,1,1-Trichloroethane	<0.020		2.68	2.60		mg/Kg	☼	97	70 - 125	1	30
1,1,2-Trichloroethane	<0.019		2.68	2.91		mg/Kg	☼	109	71 - 130	5	30
Trichloroethene	<0.0088		2.68	2.72		mg/Kg	☼	102	70 - 125	2	30
Trichlorofluoromethane	<0.023		2.68	2.62		mg/Kg	☼	98	55 - 128	4	30
1,2,3-Trichloropropane	<0.022		2.68	3.35		mg/Kg	☼	125	50 - 133	1	30
1,2,4-Trimethylbenzene	<0.019		2.68	2.48		mg/Kg	☼	93	70 - 123	1	30
1,3,5-Trimethylbenzene	<0.020		2.68	2.46		mg/Kg	☼	92	70 - 123	0	30
Vinyl chloride	<0.014		2.68	2.29		mg/Kg	☼	85	64 - 126	4	30
Xylenes, Total	<0.012		5.36	5.16		mg/Kg	☼	96	70 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*
Dibromofluoromethane	*111*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

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

Lab Sample ID: LB3 500-496279/20-A
Matrix: Solid
Analysis Batch: 496764

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 496279

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.087		0.50	0.087	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Benzene	<0.0073		0.013	0.0073	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Bromobenzene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Bromochloromethane	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Bromodichloromethane	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Bromoform	<0.024		0.050	0.024	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Bromomethane	<0.040		0.15	0.040	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
2-Butanone (MEK)	<0.11		0.25	0.11	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Carbon tetrachloride	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Chlorobenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Chloroethane	<0.025		0.050	0.025	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Chloroform	<0.019		0.10	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Chloromethane	<0.016		0.050	0.016	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
2-Chlorotoluene	<0.016		0.050	0.016	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
4-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
cis-1,2-Dichloroethene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
cis-1,3-Dichloropropene	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Dibromochloromethane	<0.024		0.050	0.024	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,2-Dibromo-3-Chloropropane	<0.10		0.25	0.10	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,2-Dibromoethane	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Dibromomethane	<0.014		0.050	0.014	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,2-Dichlorobenzene	<0.017		0.050	0.017	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,4-Dichlorobenzene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Dichlorodifluoromethane	<0.034		0.15	0.034	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,1-Dichloroethane	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,2-Dichloroethane	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,1-Dichloroethene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,2-Dichloropropane	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,3-Dichloropropane	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
2,2-Dichloropropane	<0.022		0.050	0.022	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,1-Dichloropropene	<0.015		0.050	0.015	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Ethylbenzene	<0.0092		0.013	0.0092	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Hexachlorobutadiene	<0.022		0.050	0.022	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Isopropylbenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Isopropyl ether	<0.014		0.050	0.014	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Methylene Chloride	<0.082		0.25	0.082	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Methyl tert-butyl ether	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Naphthalene	<0.017		0.050	0.017	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
n-Butylbenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
N-Propylbenzene	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
p-Isopropyltoluene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
sec-Butylbenzene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Styrene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
tert-Butylbenzene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,1,1,2-Tetrachloroethane	<0.023		0.050	0.023	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,1,2,2-Tetrachloroethane	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50

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

Lab Sample ID: LB3 500-496279/20-A
Matrix: Solid
Analysis Batch: 496764

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 496279

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.0074		0.013	0.0074	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
trans-1,2-Dichloroethene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
trans-1,3-Dichloropropene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,2,3-Trichlorobenzene	<0.023		0.050	0.023	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,2,4-Trichlorobenzene	<0.017		0.050	0.017	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,1,1-Trichloroethane	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,1,2-Trichloroethane	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Trichloroethene	<0.0082		0.025	0.0082	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Trichlorofluoromethane	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,2,3-Trichloropropane	<0.021		0.10	0.021	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,2,4-Trimethylbenzene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
1,3,5-Trimethylbenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Vinyl chloride	<0.013		0.050	0.013	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Xylenes, Total	<0.011		0.025	0.011	mg/Kg		07/24/19 00:05	07/26/19 11:00	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*07/24/19 00:05*	*07/26/19 11:00*	*50*
Dibromofluoromethane	*102*		*75 - 120*	*07/24/19 00:05*	*07/26/19 11:00*	*50*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*	*07/24/19 00:05*	*07/26/19 11:00*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*07/24/19 00:05*	*07/26/19 11:00*	*50*

Lab Sample ID: LCS 500-496279/21-A
Matrix: Solid
Analysis Batch: 496764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 496279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	2.50	2.75		mg/Kg		110	40 - 143
Benzene	2.50	2.45		mg/Kg		98	70 - 120
Bromobenzene	2.50	2.51		mg/Kg		100	70 - 122
Bromochloromethane	2.50	2.77		mg/Kg		111	65 - 122
Bromodichloromethane	2.50	2.67		mg/Kg		107	69 - 120
Bromoform	2.50	3.50	*	mg/Kg		140	56 - 132
Bromomethane	2.50	2.05		mg/Kg		82	40 - 152
2-Butanone (MEK)	2.50	2.86		mg/Kg		114	46 - 144
Carbon tetrachloride	2.50	2.69		mg/Kg		107	59 - 133
Chlorobenzene	2.50	2.42		mg/Kg		97	70 - 120
Chloroethane	2.50	1.87		mg/Kg		75	48 - 136
Chloroform	2.50	2.40		mg/Kg		96	70 - 120
Chloromethane	2.50	1.84		mg/Kg		73	56 - 152
2-Chlorotoluene	2.50	2.39		mg/Kg		96	70 - 125
4-Chlorotoluene	2.50	2.37		mg/Kg		95	68 - 124
cis-1,2-Dichloroethene	2.50	2.53		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	2.50	2.53		mg/Kg		101	64 - 127
Dibromochloromethane	2.50	2.91		mg/Kg		116	68 - 125
1,2-Dibromo-3-Chloropropane	2.50	3.35	*	mg/Kg		134	56 - 123
1,2-Dibromoethane	2.50	2.67		mg/Kg		107	70 - 125
Dibromomethane	2.50	2.96		mg/Kg		118	70 - 120
1,2-Dichlorobenzene	2.50	2.43		mg/Kg		97	70 - 125

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

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

Lab Sample ID: LCS 500-496279/21-A
Matrix: Solid
Analysis Batch: 496764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 496279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	2.50	2.36		mg/Kg		95	70 - 125
1,4-Dichlorobenzene	2.50	2.39		mg/Kg		96	70 - 120
Dichlorodifluoromethane	2.50	1.20		mg/Kg		48	40 - 159
1,1-Dichloroethane	2.50	2.36		mg/Kg		94	70 - 125
1,2-Dichloroethane	2.50	2.57		mg/Kg		103	68 - 127
1,1-Dichloroethene	2.50	2.25		mg/Kg		90	67 - 122
1,2-Dichloropropane	2.50	2.48		mg/Kg		99	67 - 130
1,3-Dichloropropane	2.50	2.80		mg/Kg		112	62 - 136
2,2-Dichloropropane	2.50	2.22		mg/Kg		89	58 - 139
1,1-Dichloropropene	2.50	2.38		mg/Kg		95	70 - 121
Ethylbenzene	2.50	2.35		mg/Kg		94	70 - 123
Hexachlorobutadiene	2.50	1.89		mg/Kg		75	51 - 150
Isopropylbenzene	2.50	2.24		mg/Kg		90	70 - 126
Methylene Chloride	2.50	2.58		mg/Kg		103	69 - 125
Methyl tert-butyl ether	2.50	2.75		mg/Kg		110	55 - 123
Naphthalene	2.50	2.66		mg/Kg		106	53 - 144
n-Butylbenzene	2.50	2.20		mg/Kg		88	68 - 125
N-Propylbenzene	2.50	2.30		mg/Kg		92	69 - 127
p-Isopropyltoluene	2.50	2.18		mg/Kg		87	70 - 125
sec-Butylbenzene	2.50	2.21		mg/Kg		88	70 - 123
Styrene	2.50	2.43		mg/Kg		97	70 - 120
tert-Butylbenzene	2.50	2.16		mg/Kg		86	70 - 121
1,1,1,2-Tetrachloroethane	2.50	2.69		mg/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	2.50	2.94		mg/Kg		118	62 - 140
Tetrachloroethene	2.50	2.14		mg/Kg		86	70 - 128
Toluene	2.50	2.23		mg/Kg		89	70 - 125
trans-1,2-Dichloroethene	2.50	2.40		mg/Kg		96	70 - 125
trans-1,3-Dichloropropene	2.50	2.63		mg/Kg		105	62 - 128
1,2,3-Trichlorobenzene	2.50	2.29		mg/Kg		92	51 - 145
1,2,4-Trichlorobenzene	2.50	2.21		mg/Kg		88	57 - 137
1,1,1-Trichloroethane	2.50	2.37		mg/Kg		95	70 - 125
1,1,2-Trichloroethane	2.50	2.65		mg/Kg		106	71 - 130
Trichloroethene	2.50	2.42		mg/Kg		97	70 - 125
Trichlorofluoromethane	2.50	2.18		mg/Kg		87	55 - 128
1,2,3-Trichloropropane	2.50	2.96		mg/Kg		118	50 - 133
1,2,4-Trimethylbenzene	2.50	2.25		mg/Kg		90	70 - 123
1,3,5-Trimethylbenzene	2.50	2.24		mg/Kg		89	70 - 123
Vinyl chloride	2.50	1.77		mg/Kg		71	64 - 126
Xylenes, Total	5.00	4.78		mg/Kg		96	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*
Dibromofluoromethane	*108*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

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

Lab Sample ID: MB 500-496533/6
Matrix: Solid
Analysis Batch: 496533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0017		0.010	0.0017	mg/Kg			07/25/19 11:50	1
Benzene	<0.00015		0.00025	0.00015	mg/Kg			07/25/19 11:50	1
Bromobenzene	<0.00036		0.0010	0.00036	mg/Kg			07/25/19 11:50	1
Bromochloromethane	<0.00043		0.0010	0.00043	mg/Kg			07/25/19 11:50	1
Bromodichloromethane	<0.00037		0.0010	0.00037	mg/Kg			07/25/19 11:50	1
Bromoform	<0.00048		0.0010	0.00048	mg/Kg			07/25/19 11:50	1
Bromomethane	<0.00080		0.0030	0.00080	mg/Kg			07/25/19 11:50	1
2-Butanone (MEK)	<0.0021		0.0050	0.0021	mg/Kg			07/25/19 11:50	1
Carbon tetrachloride	<0.00038		0.0010	0.00038	mg/Kg			07/25/19 11:50	1
Chlorobenzene	<0.00039		0.0010	0.00039	mg/Kg			07/25/19 11:50	1
Chloroethane	<0.00050		0.0010	0.00050	mg/Kg			07/25/19 11:50	1
Chloroform	<0.00037		0.0020	0.00037	mg/Kg			07/25/19 11:50	1
Chloromethane	<0.00032		0.0010	0.00032	mg/Kg			07/25/19 11:50	1
2-Chlorotoluene	<0.00031		0.0010	0.00031	mg/Kg			07/25/19 11:50	1
4-Chlorotoluene	<0.00035		0.0010	0.00035	mg/Kg			07/25/19 11:50	1
cis-1,2-Dichloroethene	<0.00041		0.0010	0.00041	mg/Kg			07/25/19 11:50	1
cis-1,3-Dichloropropene	<0.00042		0.0010	0.00042	mg/Kg			07/25/19 11:50	1
Dibromochloromethane	<0.00049		0.0010	0.00049	mg/Kg			07/25/19 11:50	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg			07/25/19 11:50	1
1,2-Dibromoethane	<0.00039		0.0010	0.00039	mg/Kg			07/25/19 11:50	1
Dibromomethane	<0.00027		0.0010	0.00027	mg/Kg			07/25/19 11:50	1
1,2-Dichlorobenzene	<0.00033		0.0010	0.00033	mg/Kg			07/25/19 11:50	1
1,3-Dichlorobenzene	<0.00040		0.0010	0.00040	mg/Kg			07/25/19 11:50	1
1,4-Dichlorobenzene	<0.00036		0.0010	0.00036	mg/Kg			07/25/19 11:50	1
Dichlorodifluoromethane	<0.00067		0.0030	0.00067	mg/Kg			07/25/19 11:50	1
1,1-Dichloroethane	<0.00041		0.0010	0.00041	mg/Kg			07/25/19 11:50	1
1,2-Dichloroethane	<0.00039		0.0010	0.00039	mg/Kg			07/25/19 11:50	1
1,1-Dichloroethene	<0.00039		0.0010	0.00039	mg/Kg			07/25/19 11:50	1
1,2-Dichloropropane	<0.00043		0.0010	0.00043	mg/Kg			07/25/19 11:50	1
1,3-Dichloropropane	<0.00036		0.0010	0.00036	mg/Kg			07/25/19 11:50	1
2,2-Dichloropropane	<0.00044		0.0010	0.00044	mg/Kg			07/25/19 11:50	1
1,1-Dichloropropene	<0.00030		0.0010	0.00030	mg/Kg			07/25/19 11:50	1
Ethylbenzene	<0.00018		0.00025	0.00018	mg/Kg			07/25/19 11:50	1
Hexachlorobutadiene	<0.00045		0.0010	0.00045	mg/Kg			07/25/19 11:50	1
Isopropylbenzene	<0.00038		0.0010	0.00038	mg/Kg			07/25/19 11:50	1
Isopropyl ether	<0.00028		0.0010	0.00028	mg/Kg			07/25/19 11:50	1
Methylene Chloride	<0.0016		0.0050	0.0016	mg/Kg			07/25/19 11:50	1
Methyl tert-butyl ether	<0.00039		0.0010	0.00039	mg/Kg			07/25/19 11:50	1
Naphthalene	0.000537	J	0.0010	0.00033	mg/Kg			07/25/19 11:50	1
n-Butylbenzene	<0.00039		0.0010	0.00039	mg/Kg			07/25/19 11:50	1
N-Propylbenzene	<0.00041		0.0010	0.00041	mg/Kg			07/25/19 11:50	1
p-Isopropyltoluene	<0.00036		0.0010	0.00036	mg/Kg			07/25/19 11:50	1
sec-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			07/25/19 11:50	1
Styrene	<0.00039		0.0010	0.00039	mg/Kg			07/25/19 11:50	1
tert-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			07/25/19 11:50	1
1,1,1,2-Tetrachloroethane	<0.00046		0.0010	0.00046	mg/Kg			07/25/19 11:50	1
1,1,2,2-Tetrachloroethane	<0.00040		0.0010	0.00040	mg/Kg			07/25/19 11:50	1
Tetrachloroethene	<0.00037		0.0010	0.00037	mg/Kg			07/25/19 11:50	1

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

Lab Sample ID: MB 500-496533/6
Matrix: Solid
Analysis Batch: 496533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00015		0.00025	0.00015	mg/Kg			07/25/19 11:50	1
trans-1,2-Dichloroethene	<0.00035		0.0010	0.00035	mg/Kg			07/25/19 11:50	1
trans-1,3-Dichloropropene	<0.00036		0.0010	0.00036	mg/Kg			07/25/19 11:50	1
1,2,3-Trichlorobenzene	<0.00046		0.0010	0.00046	mg/Kg			07/25/19 11:50	1
1,2,4-Trichlorobenzene	<0.00034		0.0010	0.00034	mg/Kg			07/25/19 11:50	1
1,1,1-Trichloroethane	<0.00038		0.0010	0.00038	mg/Kg			07/25/19 11:50	1
1,1,2-Trichloroethane	<0.00035		0.0010	0.00035	mg/Kg			07/25/19 11:50	1
Trichloroethene	<0.00016		0.00050	0.00016	mg/Kg			07/25/19 11:50	1
Trichlorofluoromethane	<0.00043		0.0010	0.00043	mg/Kg			07/25/19 11:50	1
1,2,3-Trichloropropane	<0.00041		0.0020	0.00041	mg/Kg			07/25/19 11:50	1
1,2,4-Trimethylbenzene	<0.00036		0.0010	0.00036	mg/Kg			07/25/19 11:50	1
1,3,5-Trimethylbenzene	<0.00038		0.0010	0.00038	mg/Kg			07/25/19 11:50	1
Vinyl chloride	<0.00026		0.0010	0.00026	mg/Kg			07/25/19 11:50	1
Xylenes, Total	<0.00022		0.00050	0.00022	mg/Kg			07/25/19 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*07/25/19 11:50*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*07/25/19 11:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*07/25/19 11:50*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*07/25/19 11:50*	*1*

Lab Sample ID: LCS 500-496533/28
Matrix: Solid
Analysis Batch: 496533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0600		mg/Kg		120	40 - 143
Benzene	0.0500	0.0507		mg/Kg		101	70 - 120
Bromobenzene	0.0500	0.0507		mg/Kg		101	70 - 122
Bromochloromethane	0.0500	0.0540		mg/Kg		108	65 - 122
Bromodichloromethane	0.0500	0.0554		mg/Kg		111	69 - 120
Bromoform	0.0500	0.0769	*	mg/Kg		154	56 - 132
Bromomethane	0.0500	0.0502		mg/Kg		100	40 - 152
2-Butanone (MEK)	0.0500	0.0593		mg/Kg		119	46 - 144
Carbon tetrachloride	0.0500	0.0636		mg/Kg		127	59 - 133
Chlorobenzene	0.0500	0.0507		mg/Kg		101	70 - 120
Chloroethane	0.0500	0.0444		mg/Kg		89	48 - 136
Chloroform	0.0500	0.0491		mg/Kg		98	70 - 120
Chloromethane	0.0500	0.0456		mg/Kg		91	56 - 152
2-Chlorotoluene	0.0500	0.0488		mg/Kg		98	70 - 125
4-Chlorotoluene	0.0500	0.0498		mg/Kg		100	68 - 124
cis-1,2-Dichloroethene	0.0500	0.0527		mg/Kg		105	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0521		mg/Kg		104	64 - 127
Dibromochloromethane	0.0500	0.0613		mg/Kg		123	68 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0711	*	mg/Kg		142	56 - 123
1,2-Dibromoethane	0.0500	0.0560		mg/Kg		112	70 - 125
Dibromomethane	0.0500	0.0607	*	mg/Kg		121	70 - 120
1,2-Dichlorobenzene	0.0500	0.0498		mg/Kg		100	70 - 125

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

Lab Sample ID: LCS 500-496533/28
Matrix: Solid
Analysis Batch: 496533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	0.0500	0.0497		mg/Kg		99	70 - 125
1,4-Dichlorobenzene	0.0500	0.0507		mg/Kg		101	70 - 120
Dichlorodifluoromethane	0.0500	0.0513		mg/Kg		103	40 - 159
1,1-Dichloroethane	0.0500	0.0482		mg/Kg		96	70 - 125
1,2-Dichloroethane	0.0500	0.0529		mg/Kg		106	68 - 127
1,1-Dichloroethene	0.0500	0.0520		mg/Kg		104	67 - 122
1,2-Dichloropropane	0.0500	0.0502		mg/Kg		100	67 - 130
1,3-Dichloropropane	0.0500	0.0571		mg/Kg		114	62 - 136
2,2-Dichloropropane	0.0500	0.0515		mg/Kg		103	58 - 139
1,1-Dichloropropene	0.0500	0.0530		mg/Kg		106	70 - 121
Ethylbenzene	0.0500	0.0511		mg/Kg		102	70 - 123
Hexachlorobutadiene	0.0500	0.0441		mg/Kg		88	51 - 150
Isopropylbenzene	0.0500	0.0478		mg/Kg		96	70 - 126
Methylene Chloride	0.0500	0.0512		mg/Kg		102	69 - 125
Methyl tert-butyl ether	0.0500	0.0556		mg/Kg		111	55 - 123
Naphthalene	0.0500	0.0529		mg/Kg		106	53 - 144
n-Butylbenzene	0.0500	0.0499		mg/Kg		100	68 - 125
N-Propylbenzene	0.0500	0.0496		mg/Kg		99	69 - 127
p-Isopropyltoluene	0.0500	0.0484		mg/Kg		97	70 - 125
sec-Butylbenzene	0.0500	0.0484		mg/Kg		97	70 - 123
Styrene	0.0500	0.0507		mg/Kg		101	70 - 120
tert-Butylbenzene	0.0500	0.0473		mg/Kg		95	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0573		mg/Kg		115	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0600		mg/Kg		120	62 - 140
Tetrachloroethene	0.0500	0.0513		mg/Kg		103	70 - 128
Toluene	0.0500	0.0479		mg/Kg		96	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0507		mg/Kg		101	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0565		mg/Kg		113	62 - 128
1,2,3-Trichlorobenzene	0.0500	0.0490		mg/Kg		98	51 - 145
1,2,4-Trichlorobenzene	0.0500	0.0495		mg/Kg		99	57 - 137
1,1,1-Trichloroethane	0.0500	0.0531		mg/Kg		106	70 - 125
1,1,2-Trichloroethane	0.0500	0.0551		mg/Kg		110	71 - 130
Trichloroethene	0.0500	0.0536		mg/Kg		107	70 - 125
Trichlorofluoromethane	0.0500	0.0572		mg/Kg		114	55 - 128
1,2,3-Trichloropropane	0.0500	0.0611		mg/Kg		122	50 - 133
1,2,4-Trimethylbenzene	0.0500	0.0473		mg/Kg		95	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0474		mg/Kg		95	70 - 123
Vinyl chloride	0.0500	0.0468		mg/Kg		94	64 - 126
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*108*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*
Toluene-d8 (Surr)	*96*		*75 - 120*

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

Lab Sample ID: MB 500-496764/6
Matrix: Solid
Analysis Batch: 496764

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0017		0.010	0.0017	mg/Kg			07/26/19 10:33	1
Benzene	<0.00015		0.00025	0.00015	mg/Kg			07/26/19 10:33	1
Bromobenzene	<0.00036		0.0010	0.00036	mg/Kg			07/26/19 10:33	1
Bromochloromethane	<0.00043		0.0010	0.00043	mg/Kg			07/26/19 10:33	1
Bromodichloromethane	<0.00037		0.0010	0.00037	mg/Kg			07/26/19 10:33	1
Bromoform	<0.00048		0.0010	0.00048	mg/Kg			07/26/19 10:33	1
Bromomethane	<0.00080		0.0030	0.00080	mg/Kg			07/26/19 10:33	1
2-Butanone (MEK)	<0.0021		0.0050	0.0021	mg/Kg			07/26/19 10:33	1
Carbon tetrachloride	<0.00038		0.0010	0.00038	mg/Kg			07/26/19 10:33	1
Chlorobenzene	<0.00039		0.0010	0.00039	mg/Kg			07/26/19 10:33	1
Chloroethane	<0.00050		0.0010	0.00050	mg/Kg			07/26/19 10:33	1
Chloroform	<0.00037		0.0020	0.00037	mg/Kg			07/26/19 10:33	1
Chloromethane	<0.00032		0.0010	0.00032	mg/Kg			07/26/19 10:33	1
2-Chlorotoluene	<0.00031		0.0010	0.00031	mg/Kg			07/26/19 10:33	1
4-Chlorotoluene	<0.00035		0.0010	0.00035	mg/Kg			07/26/19 10:33	1
cis-1,2-Dichloroethene	<0.00041		0.0010	0.00041	mg/Kg			07/26/19 10:33	1
cis-1,3-Dichloropropene	<0.00042		0.0010	0.00042	mg/Kg			07/26/19 10:33	1
Dibromochloromethane	<0.00049		0.0010	0.00049	mg/Kg			07/26/19 10:33	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg			07/26/19 10:33	1
1,2-Dibromoethane	<0.00039		0.0010	0.00039	mg/Kg			07/26/19 10:33	1
Dibromomethane	<0.00027		0.0010	0.00027	mg/Kg			07/26/19 10:33	1
1,2-Dichlorobenzene	<0.00033		0.0010	0.00033	mg/Kg			07/26/19 10:33	1
1,3-Dichlorobenzene	<0.00040		0.0010	0.00040	mg/Kg			07/26/19 10:33	1
1,4-Dichlorobenzene	<0.00036		0.0010	0.00036	mg/Kg			07/26/19 10:33	1
Dichlorodifluoromethane	<0.00067		0.0030	0.00067	mg/Kg			07/26/19 10:33	1
1,1-Dichloroethane	<0.00041		0.0010	0.00041	mg/Kg			07/26/19 10:33	1
1,2-Dichloroethane	<0.00039		0.0010	0.00039	mg/Kg			07/26/19 10:33	1
1,1-Dichloroethene	<0.00039		0.0010	0.00039	mg/Kg			07/26/19 10:33	1
1,2-Dichloropropane	<0.00043		0.0010	0.00043	mg/Kg			07/26/19 10:33	1
1,3-Dichloropropane	<0.00036		0.0010	0.00036	mg/Kg			07/26/19 10:33	1
2,2-Dichloropropane	<0.00044		0.0010	0.00044	mg/Kg			07/26/19 10:33	1
1,1-Dichloropropene	<0.00030		0.0010	0.00030	mg/Kg			07/26/19 10:33	1
Ethylbenzene	<0.00018		0.00025	0.00018	mg/Kg			07/26/19 10:33	1
Hexachlorobutadiene	<0.00045		0.0010	0.00045	mg/Kg			07/26/19 10:33	1
Isopropylbenzene	<0.00038		0.0010	0.00038	mg/Kg			07/26/19 10:33	1
Isopropyl ether	<0.00028		0.0010	0.00028	mg/Kg			07/26/19 10:33	1
Methylene Chloride	<0.0016		0.0050	0.0016	mg/Kg			07/26/19 10:33	1
Methyl tert-butyl ether	<0.00039		0.0010	0.00039	mg/Kg			07/26/19 10:33	1
Naphthalene	<0.00033		0.0010	0.00033	mg/Kg			07/26/19 10:33	1
n-Butylbenzene	<0.00039		0.0010	0.00039	mg/Kg			07/26/19 10:33	1
N-Propylbenzene	<0.00041		0.0010	0.00041	mg/Kg			07/26/19 10:33	1
p-Isopropyltoluene	<0.00036		0.0010	0.00036	mg/Kg			07/26/19 10:33	1
sec-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			07/26/19 10:33	1
Styrene	<0.00039		0.0010	0.00039	mg/Kg			07/26/19 10:33	1
tert-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			07/26/19 10:33	1
1,1,1,2-Tetrachloroethane	<0.00046		0.0010	0.00046	mg/Kg			07/26/19 10:33	1
1,1,2,2-Tetrachloroethane	<0.00040		0.0010	0.00040	mg/Kg			07/26/19 10:33	1
Tetrachloroethene	<0.00037		0.0010	0.00037	mg/Kg			07/26/19 10:33	1

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

Lab Sample ID: MB 500-496764/6
Matrix: Solid
Analysis Batch: 496764

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00015		0.00025	0.00015	mg/Kg			07/26/19 10:33	1
trans-1,2-Dichloroethene	<0.00035		0.0010	0.00035	mg/Kg			07/26/19 10:33	1
trans-1,3-Dichloropropene	<0.00036		0.0010	0.00036	mg/Kg			07/26/19 10:33	1
1,2,3-Trichlorobenzene	<0.00046		0.0010	0.00046	mg/Kg			07/26/19 10:33	1
1,2,4-Trichlorobenzene	<0.00034		0.0010	0.00034	mg/Kg			07/26/19 10:33	1
1,1,1-Trichloroethane	<0.00038		0.0010	0.00038	mg/Kg			07/26/19 10:33	1
1,1,2-Trichloroethane	<0.00035		0.0010	0.00035	mg/Kg			07/26/19 10:33	1
Trichloroethene	<0.00016		0.00050	0.00016	mg/Kg			07/26/19 10:33	1
Trichlorofluoromethane	<0.00043		0.0010	0.00043	mg/Kg			07/26/19 10:33	1
1,2,3-Trichloropropane	<0.00041		0.0020	0.00041	mg/Kg			07/26/19 10:33	1
1,2,4-Trimethylbenzene	<0.00036		0.0010	0.00036	mg/Kg			07/26/19 10:33	1
1,3,5-Trimethylbenzene	<0.00038		0.0010	0.00038	mg/Kg			07/26/19 10:33	1
Vinyl chloride	<0.00026		0.0010	0.00026	mg/Kg			07/26/19 10:33	1
Xylenes, Total	<0.00022		0.00050	0.00022	mg/Kg			07/26/19 10:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*07/26/19 10:33*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*07/26/19 10:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*07/26/19 10:33*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*07/26/19 10:33*	*1*

Lab Sample ID: LCS 500-496764/4
Matrix: Solid
Analysis Batch: 496764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0542		mg/Kg		108	40 - 143
Benzene	0.0500	0.0493		mg/Kg		99	70 - 120
Bromobenzene	0.0500	0.0486		mg/Kg		97	70 - 122
Bromochloromethane	0.0500	0.0535		mg/Kg		107	65 - 122
Bromodichloromethane	0.0500	0.0528		mg/Kg		106	69 - 120
Bromoform	0.0500	0.0747	*	mg/Kg		149	56 - 132
Bromomethane	0.0500	0.0471		mg/Kg		94	40 - 152
2-Butanone (MEK)	0.0500	0.0544		mg/Kg		109	46 - 144
Carbon tetrachloride	0.0500	0.0631		mg/Kg		126	59 - 133
Chlorobenzene	0.0500	0.0495		mg/Kg		99	70 - 120
Chloroethane	0.0500	0.0405		mg/Kg		81	48 - 136
Chloroform	0.0500	0.0483		mg/Kg		97	70 - 120
Chloromethane	0.0500	0.0435		mg/Kg		87	56 - 152
2-Chlorotoluene	0.0500	0.0486		mg/Kg		97	70 - 125
4-Chlorotoluene	0.0500	0.0488		mg/Kg		98	68 - 124
cis-1,2-Dichloroethene	0.0500	0.0502		mg/Kg		100	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0512		mg/Kg		102	64 - 127
Dibromochloromethane	0.0500	0.0603		mg/Kg		121	68 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0690	*	mg/Kg		138	56 - 123
1,2-Dibromoethane	0.0500	0.0550		mg/Kg		110	70 - 125
Dibromomethane	0.0500	0.0572		mg/Kg		114	70 - 120
1,2-Dichlorobenzene	0.0500	0.0487		mg/Kg		97	70 - 125

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

Lab Sample ID: LCS 500-496764/4
Matrix: Solid
Analysis Batch: 496764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	0.0500	0.0484		mg/Kg		97	70 - 125
1,4-Dichlorobenzene	0.0500	0.0494		mg/Kg		99	70 - 120
Dichlorodifluoromethane	0.0500	0.0462		mg/Kg		92	40 - 159
1,1-Dichloroethane	0.0500	0.0471		mg/Kg		94	70 - 125
1,2-Dichloroethane	0.0500	0.0505		mg/Kg		101	68 - 127
1,1-Dichloroethene	0.0500	0.0494		mg/Kg		99	67 - 122
1,2-Dichloropropane	0.0500	0.0498		mg/Kg		100	67 - 130
1,3-Dichloropropane	0.0500	0.0555		mg/Kg		111	62 - 136
2,2-Dichloropropane	0.0500	0.0513		mg/Kg		103	58 - 139
1,1-Dichloropropene	0.0500	0.0526		mg/Kg		105	70 - 121
Ethylbenzene	0.0500	0.0508		mg/Kg		102	70 - 123
Hexachlorobutadiene	0.0500	0.0437		mg/Kg		87	51 - 150
Isopropylbenzene	0.0500	0.0474		mg/Kg		95	70 - 126
Methylene Chloride	0.0500	0.0485		mg/Kg		97	69 - 125
Methyl tert-butyl ether	0.0500	0.0538		mg/Kg		108	55 - 123
Naphthalene	0.0500	0.0510		mg/Kg		102	53 - 144
n-Butylbenzene	0.0500	0.0492		mg/Kg		98	68 - 125
N-Propylbenzene	0.0500	0.0494		mg/Kg		99	69 - 127
p-Isopropyltoluene	0.0500	0.0481		mg/Kg		96	70 - 125
sec-Butylbenzene	0.0500	0.0480		mg/Kg		96	70 - 123
Styrene	0.0500	0.0501		mg/Kg		100	70 - 120
tert-Butylbenzene	0.0500	0.0459		mg/Kg		92	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0564		mg/Kg		113	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0576		mg/Kg		115	62 - 140
Tetrachloroethene	0.0500	0.0503		mg/Kg		101	70 - 128
Toluene	0.0500	0.0479		mg/Kg		96	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0504		mg/Kg		101	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0548		mg/Kg		110	62 - 128
1,2,3-Trichlorobenzene	0.0500	0.0468		mg/Kg		94	51 - 145
1,2,4-Trichlorobenzene	0.0500	0.0464		mg/Kg		93	57 - 137
1,1,1-Trichloroethane	0.0500	0.0525		mg/Kg		105	70 - 125
1,1,2-Trichloroethane	0.0500	0.0537		mg/Kg		107	71 - 130
Trichloroethene	0.0500	0.0514		mg/Kg		103	70 - 125
Trichlorofluoromethane	0.0500	0.0551		mg/Kg		110	55 - 128
1,2,3-Trichloropropane	0.0500	0.0607		mg/Kg		121	50 - 133
1,2,4-Trimethylbenzene	0.0500	0.0465		mg/Kg		93	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0471		mg/Kg		94	70 - 123
Vinyl chloride	0.0500	0.0464		mg/Kg		93	64 - 126
Xylenes, Total	0.100	0.100		mg/Kg		100	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*
Dibromofluoromethane	*108*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*
Toluene-d8 (Surr)	*96*		*75 - 120*

Client Sample ID: SP20 16-18 — **Lab Sample ID: 500-166949-1**
Date Collected: 07/17/19 18:50 — **Matrix: Solid**
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496136	07/23/19 10:02	LWN	TAL CHI

Client Sample ID: SP20 16-18 — **Lab Sample ID: 500-166949-1**
Date Collected: 07/17/19 18:50 — **Matrix: Solid**
Date Received: 07/19/19 09:20 — **Percent Solids: 91.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 13:10	JLC	TAL CHI

Client Sample ID: SP11 1-3 — **Lab Sample ID: 500-166949-2**
Date Collected: 07/17/19 17:00 — **Matrix: Solid**
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496136	07/23/19 10:02	LWN	TAL CHI

Client Sample ID: SP11 1-3 — **Lab Sample ID: 500-166949-2**
Date Collected: 07/17/19 17:00 — **Matrix: Solid**
Date Received: 07/19/19 09:20 — **Percent Solids: 92.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 13:38	JLC	TAL CHI

Client Sample ID: SP12 8-10 — **Lab Sample ID: 500-166949-3**
Date Collected: 07/17/19 17:25 — **Matrix: Solid**
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496136	07/23/19 10:02	LWN	TAL CHI

Client Sample ID: SP12 8-10 — **Lab Sample ID: 500-166949-3**
Date Collected: 07/17/19 17:25 — **Matrix: Solid**
Date Received: 07/19/19 09:20 — **Percent Solids: 91.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 14:32	JLC	TAL CHI

Client Sample ID: SP13 7-9 — **Lab Sample ID: 500-166949-4**
Date Collected: 07/17/19 17:10 — **Matrix: Solid**
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Lab Chronicle

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP13 7-9
Date Collected: 07/17/19 17:10
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-4
Matrix: Solid
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 14:58	JLC	TAL CHI

Client Sample ID: SP15 2-4
Date Collected: 07/17/19 18:05
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP15 2-4
Date Collected: 07/17/19 18:05
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-5
Matrix: Solid
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 15:26	JLC	TAL CHI

Client Sample ID: SP16 2-4
Date Collected: 07/17/19 18:00
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP16 2-4
Date Collected: 07/17/19 18:00
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-6
Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 15:53	JLC	TAL CHI

Client Sample ID: SP17 2-4
Date Collected: 07/17/19 18:20
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Lab Chronicle

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP17 2-4
Date Collected: 07/17/19 18:20
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-7
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			496278	07/17/19 18:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 16:21	JLC	TAL CHI

Client Sample ID: SP18 2-4
Date Collected: 07/17/19 18:35
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP18 2-4
Date Collected: 07/17/19 18:35
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-8
Matrix: Solid
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 16:48	JLC	TAL CHI

Client Sample ID: SP19 2-4
Date Collected: 07/17/19 18:25
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP19 2-4
Date Collected: 07/17/19 18:25
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-9
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 17:15	JLC	TAL CHI

Client Sample ID: SP11 7-9
Date Collected: 07/17/19 17:05
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Lab Chronicle

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP11 7-9
Date Collected: 07/17/19 17:05
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-10
Matrix: Solid
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 17:42	JLC	TAL CHI

Client Sample ID: SP15 8-10
Date Collected: 07/17/19 17:30
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP15 8-10
Date Collected: 07/17/19 17:30
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-11
Matrix: Solid
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 18:09	JLC	TAL CHI

Client Sample ID: SP15 16-18
Date Collected: 07/17/19 17:40
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP15 16-18
Date Collected: 07/17/19 17:40
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-12
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 18:36	JLC	TAL CHI

Client Sample ID: SP16 8-10
Date Collected: 07/17/19 17:50
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Lab Chronicle

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP16 8-10
Lab Sample ID: 500-166949-13
Date Collected: 07/17/19 17:50
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 19:03	JLC	TAL CHI

Client Sample ID: SP16 16-18
Lab Sample ID: 500-166949-14
Date Collected: 07/17/19 17:35
Matrix: Solid
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP16 16-18
Lab Sample ID: 500-166949-14
Date Collected: 07/17/19 17:35
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 19:30	JLC	TAL CHI

Client Sample ID: SP17 8-10
Lab Sample ID: 500-166949-15
Date Collected: 07/17/19 17:45
Matrix: Solid
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP17 8-10
Lab Sample ID: 500-166949-15
Date Collected: 07/17/19 17:45
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 19:58	JLC	TAL CHI

Client Sample ID: SP17 16-18
Lab Sample ID: 500-166949-16
Date Collected: 07/17/19 17:55
Matrix: Solid
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Lab Chronicle

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP17 16-18
Lab Sample ID: 500-166949-16
Date Collected: 07/17/19 17:55
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 11:27	EMA	TAL CHI

Client Sample ID: SP18 8-10
Lab Sample ID: 500-166949-17
Date Collected: 07/17/19 18:45
Matrix: Solid
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP18 8-10
Lab Sample ID: 500-166949-17
Date Collected: 07/17/19 18:45
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 11:55	EMA	TAL CHI

Client Sample ID: SP18 16-18
Lab Sample ID: 500-166949-18
Date Collected: 07/17/19 18:10
Matrix: Solid
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP18 16-18
Lab Sample ID: 500-166949-18
Date Collected: 07/17/19 18:10
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 12:22	EMA	TAL CHI

Client Sample ID: SP19 8-10
Lab Sample ID: 500-166949-19
Date Collected: 07/17/19 18:55
Matrix: Solid
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Lab Chronicle

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP19 8-10
Lab Sample ID: 500-166949-19
Date Collected: 07/17/19 18:55
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 12:50	EMA	TAL CHI

Client Sample ID: SP19 16-18
Lab Sample ID: 500-166949-20
Date Collected: 07/17/19 18:15
Matrix: Solid
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP19 16-18
Lab Sample ID: 500-166949-20
Date Collected: 07/17/19 18:15
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 13:17	EMA	TAL CHI

Client Sample ID: SP22 8-10
Lab Sample ID: 500-166949-21
Date Collected: 07/17/19 17:10
Matrix: Solid
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP22 8-10
Lab Sample ID: 500-166949-21
Date Collected: 07/17/19 17:10
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496279	07/17/19 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 13:44	EMA	TAL CHI

Client Sample ID: SP23 16-18
Lab Sample ID: 500-166949-22
Date Collected: 07/17/19 18:40
Matrix: Solid
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Lab Chronicle

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP23 16-18
Date Collected: 07/17/19 18:40
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-22
Matrix: Solid
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496279	07/17/19 18:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 14:11	EMA	TAL CHI

Client Sample ID: SP24 2-4
Date Collected: 07/17/19 19:05
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP24 2-4
Date Collected: 07/17/19 19:05
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-23
Matrix: Solid
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496279	07/17/19 19:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 14:38	EMA	TAL CHI

Client Sample ID: SP24 8-10
Date Collected: 07/17/19 19:20
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496172	07/23/19 11:30	LWN	TAL CHI

Client Sample ID: SP24 8-10
Date Collected: 07/17/19 19:20
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-24
Matrix: Solid
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496279	07/17/19 19:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 15:04	EMA	TAL CHI

Client Sample ID: SP25 8-10
Date Collected: 07/17/19 19:00
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496172	07/23/19 11:30	LWN	TAL CHI

Lab Chronicle

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP25 8-10
Lab Sample ID: 500-166949-25
Date Collected: 07/17/19 19:00
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496279	07/17/19 19:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 16:52	EMA	TAL CHI

Client Sample ID: SP26 2-4
Lab Sample ID: 500-166949-26
Date Collected: 07/17/19 19:10
Matrix: Solid
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496172	07/23/19 11:30	LWN	TAL CHI

Client Sample ID: SP26 2-4
Lab Sample ID: 500-166949-26
Date Collected: 07/17/19 19:10
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496279	07/17/19 19:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 15:31	EMA	TAL CHI

Client Sample ID: SP27 2-4
Lab Sample ID: 500-166949-27
Date Collected: 07/17/19 19:15
Matrix: Solid
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496172	07/23/19 11:30	LWN	TAL CHI

Client Sample ID: SP27 2-4
Lab Sample ID: 500-166949-27
Date Collected: 07/17/19 19:15
Matrix: Solid
Date Received: 07/19/19 09:20
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496279	07/17/19 19:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 15:58	EMA	TAL CHI

Client Sample ID: SP21 16-18
Lab Sample ID: 500-166949-28
Date Collected: 07/17/19 18:30
Matrix: Solid
Date Received: 07/19/19 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496172	07/23/19 11:30	LWN	TAL CHI

Lab Chronicle

Client: Key Engineering Group, Ltd.
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Client Sample ID: SP21 16-18
Date Collected: 07/17/19 18:30
Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-28
Matrix: Solid
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496279	07/17/19 18:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 16:25	EMA	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Key Engineering Group, Ltd.
Job ID: 500-166949-1
Project/Site: 1681 N. Van Buren - 1604-1011-00002

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534

500-166949 COC

Chain of Custody Record

Lab Job #: 500-166949

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 5.0

Report To (optional)	Bill To (optional)
Contact: Toni Schoen	Contact:
Company: Key Engineering	Company: Same
Address: 735 N. Water St. #510	Address:
Address: Milwaukee, WI 53202	Address:
Phone: 414.225.0594	Phone:
Fax:	Fax:
E-Mail: tschoen@keyengineeringcorp.com	PO#/Reference# 194469

Client	Client Project #
Key Engineering	1604-1011-0002
Project Name: 1681 N. Van Buren St	
Project Location/State: Milwaukee, WI	Lab Project #
Sampler: Jason Drews	Lab PM

Preservative: 9

Parameter: VOCs

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other MeOH

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Comments
1		SP20 16-18	7/17/19	6:50pm	2	S	
2		SP11 ~~1-3~~ 1-3	7/17/19	5:00pm			
3		SP12 ~~8-10~~ 8-10	7/17/19	5:25pm			
4		SP13 7-9	7/17/19	5:15pm			
		SP14 8-10					
5		SP15 2-4	7/17/19	6:05pm			
6		SP16 2-4	7/17/19	6:00pm			
7		SP17 2-4	7/17/19	6:20pm			
8		SP18 2-4	7/17/19	6:35pm			
9		SP19 2-4	7/17/19	6:25pm			

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ✓ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	KEI	7/18/19			TA	7-18-19	13:50
	TA	7.18.19	1700		TA-CHT	7/19/19	0920

Lab Courier
Shipped Fed-X
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-503 (1209)

7/30/2019

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-166949

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler:

(optional)

Report To
Contact: Toni Schoen
Company: Key Engineering
Address: 735 N. Water St #516
Address: Milwaukee, WI 53202
Phone: 414.225.0594
Fax:
E-Mail: tschoen@keyengineering.com

(optional)

Bill To
Contact:
Company: Same
Address:
Address:
Phone:
Fax:
PO#/Reference# 194469

Client: Key Engineering
Client Project #: 1604-1011-0002
Project Name: 1681 N. Van Buren St
Project Location/State: Milwaukee, WI
Lab Project #:
Sampler: Jason Orews
Lab PM:

Preservative: 9
Parameter: VOCs

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other MeOH

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Comments
10		SP11 7-9	7/17/19	5:05pm	2	S	
11		SP15 8-10		5:30pm			
12		SP15 (16-18)		5:40pm			
13		SP16 8-10		5:50pm			
14		SP16 (16-18)		5:35pm			
15		SP17 8-10		5:45pm			
16		SP17 (16-18)		5:55pm			
17		SP18 8-10		6:45pm			
18		SP18 (16-18)		6:10pm			
19		SP19 8-10		6:55pm			

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	KEI	7/18/19			TA	7-18-19	1350
	TA	7.18.19	1700		TA-CHT	7/19/19	0920

Lab Courier:
Shipped: Fed Ex
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4127 (0310)

7/30/2019

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-166949

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler:

Report To (optional)		Bill To (optional)	
Contact:	Toni Schoen	Contact:	
Company:	Key Engineering	Company:	Same
Address:	735 N. Water St #570	Address:	
Address:	Milwaukee, WI 53202	Address:	
Phone:	414. 225.0594	Phone:	
Fax:		Fax:	
E-Mail:	tschoen@keyengineering.com	PO#/Reference#	194469

Client	Client Project #	Preservative	9									
Key Engineering	1604-101-0002											
Project Name		Parameter										
1681 N. Van Buren st			VOC									
Project Location/State	Lab Project #											
Milwaukee, WI												
Sampler	Lab PM											
Jason Drews												

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other MeOH

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Comments
20		SP19 (16-18)	7/17/19	6:15pm	2	S	
21		SP22 ~~16-18~~ (8-10)		5:10pm			
22		SP23 (16-18)		6:30pm			
23		SP24 2-4		7:05pm			
24		SP24 8-10		7:20pm			
25		SP25 8-10		7:00pm			
26		SP26 2-4		7:10pm			
27		SP27 2-4		7:15pm			
28		SP21 (16-18)		~~6:35pm~~ 6:30pm			

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ✓ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	CEY	7/18/19			TA	7-18-19	1350
	TA	7-18-19	1700		TA-CHI	7/19/19	0920

Lab Courier
Shipped Fed Ex
Hand Delivered

Matrix Key

WW – Wastewater	SE – Sediment
W – Water	SO – Soil
S – Soil	L – Leachate
SL – Sludge	WI – Wipe
MS – Miscellaneous	DW – Drinking Water
OL – Oil	O – Other
A – Air	

Client Comments

Lab Comments:

Login Sample Receipt Checklist

Client: Key Engineering Group, Ltd.

Job Number: 500-166949-1

Login Number: 166949
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

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	5.0
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix 6

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

May 06, 2019

Toni Schoen
Key Engineering
735 N. Water St.
Milwaukee, WI 53202

RE: Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Dear Toni Schoen:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Milwaukee
Kristina Monteleone, Key Engineering Group

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10472767001	**IA-1**	Air	04/27/19 18:00	04/30/19 10:45
10472767002	**VP-1**	Air	04/27/19 18:55	04/30/19 10:45
10472767003	**VP-2**	Air	04/27/19 19:02	04/30/19 10:45
10472767004	**VP-3**	Air	04/27/19 19:09	04/30/19 10:45
10472767005	**VP-4**	Air	04/27/19 19:17	04/30/19 10:45

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10472767001	**IA-1**	TO-15	CH1	61	PASI-M
10472767002	**VP-1**	TO-15	CH1	61	PASI-M
10472767003	**VP-2**	TO-15	CH1	61	PASI-M
10472767004	**VP-3**	TO-15	CH1	61	PASI-M
10472767005	**VP-4**	TO-15	CH1	61	PASI-M

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Sample: IA-1 **Lab ID: 10472767001** Collected: 04/27/19 18:00 Received: 04/30/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**40200**	ug/m3	98.3	49.4	40.8		05/03/19 14:15	67-64-1	E
Benzene	**<0.21**	ug/m3	0.44	0.21	1.36		05/02/19 22:21	71-43-2	
Benzyl chloride	**<1.6**	ug/m3	3.6	1.6	1.36		05/02/19 22:21	100-44-7	
Bromodichloromethane	**<0.50**	ug/m3	1.8	0.50	1.36		05/02/19 22:21	75-27-4	
Bromoform	**<1.9**	ug/m3	7.1	1.9	1.36		05/02/19 22:21	75-25-2	
Bromomethane	**<0.31**	ug/m3	1.1	0.31	1.36		05/02/19 22:21	74-83-9	
1,3-Butadiene	**<0.17**	ug/m3	0.61	0.17	1.36		05/02/19 22:21	106-99-0	
2-Butanone (MEK)	**802**	ug/m3	122	15.1	40.8		05/03/19 14:15	78-93-3	
Carbon disulfide	**<0.30**	ug/m3	0.86	0.30	1.36		05/02/19 22:21	75-15-0	
Carbon tetrachloride	**<0.58**	ug/m3	1.7	0.58	1.36		05/02/19 22:21	56-23-5	
Chlorobenzene	**<0.37**	ug/m3	1.3	0.37	1.36		05/02/19 22:21	108-90-7	
Chloroethane	**<0.35**	ug/m3	0.73	0.35	1.36		05/02/19 22:21	75-00-3	
Chloroform	**4.1**	ug/m3	0.67	0.27	1.36		05/02/19 22:21	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.57	0.21	1.36		05/02/19 22:21	74-87-3	
Cyclohexane	**<0.48**	ug/m3	2.4	0.48	1.36		05/02/19 22:21	110-82-7	
Dibromochloromethane	**<0.98**	ug/m3	2.4	0.98	1.36		05/02/19 22:21	124-48-1	
1,2-Dibromoethane (EDB)	**<0.50**	ug/m3	2.1	0.50	1.36		05/02/19 22:21	106-93-4	
1,2-Dichlorobenzene	**<0.68**	ug/m3	1.7	0.68	1.36		05/02/19 22:21	95-50-1	
1,3-Dichlorobenzene	**<0.79**	ug/m3	1.7	0.79	1.36		05/02/19 22:21	541-73-1	
1,4-Dichlorobenzene	**<1.4**	ug/m3	4.2	1.4	1.36		05/02/19 22:21	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.4	0.40	1.36		05/02/19 22:21	75-71-8	
1,1-Dichloroethane	**<0.31**	ug/m3	1.1	0.31	1.36		05/02/19 22:21	75-34-3	
1,2-Dichloroethane	**<0.20**	ug/m3	0.56	0.20	1.36		05/02/19 22:21	107-06-2	
1,1-Dichloroethene	**<0.37**	ug/m3	1.1	0.37	1.36		05/02/19 22:21	75-35-4	
cis-1,2-Dichloroethene	**<0.30**	ug/m3	1.1	0.30	1.36		05/02/19 22:21	156-59-2	
trans-1,2-Dichloroethene	**<0.39**	ug/m3	1.1	0.39	1.36		05/02/19 22:21	156-60-5	
1,2-Dichloropropane	**<0.31**	ug/m3	1.3	0.31	1.36		05/02/19 22:21	78-87-5	
cis-1,3-Dichloropropene	**<0.41**	ug/m3	1.3	0.41	1.36		05/02/19 22:21	10061-01-5	
trans-1,3-Dichloropropene	**<0.60**	ug/m3	1.3	0.60	1.36		05/02/19 22:21	10061-02-6	
Dichlorotetrafluoroethane	**<0.59**	ug/m3	1.9	0.59	1.36		05/02/19 22:21	76-14-2	
Ethanol	**1240**	ug/m3	78.3	33.1	40.8		05/03/19 14:15	64-17-5	
Ethyl acetate	**2880**	ug/m3	29.9	7.8	40.8		05/03/19 14:15	141-78-6	
Ethylbenzene	**1.8**	ug/m3	1.2	0.41	1.36		05/02/19 22:21	100-41-4	
4-Ethyltoluene	**<0.78**	ug/m3	3.4	0.78	1.36		05/02/19 22:21	622-96-8	
n-Heptane	**<0.52**	ug/m3	1.1	0.52	1.36		05/02/19 22:21	142-82-5	
Hexachloro-1,3-butadiene	**<2.7**	ug/m3	7.4	2.7	1.36		05/02/19 22:21	87-68-3	
n-Hexane	**119**	ug/m3	0.97	0.42	1.36		05/02/19 22:21	110-54-3	
2-Hexanone	**1.1J**	ug/m3	5.7	1.0	1.36		05/02/19 22:21	591-78-6	CH
Methylene Chloride	**13.4**	ug/m3	4.8	1.3	1.36		05/02/19 22:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**11.0**	ug/m3	5.7	0.70	1.36		05/02/19 22:21	108-10-1	
Methyl-tert-butyl ether	**<0.90**	ug/m3	5.0	0.90	1.36		05/02/19 22:21	1634-04-4	
Naphthalene	**<1.8**	ug/m3	3.6	1.8	1.36		05/02/19 22:21	91-20-3	
2-Propanol	**9490**	ug/m3	102	28.4	40.8		05/03/19 14:15	67-63-0	
Propylene	**<0.19**	ug/m3	0.48	0.19	1.36		05/02/19 22:21	115-07-1	
Styrene	**3.5**	ug/m3	1.2	0.47	1.36		05/02/19 22:21	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/m3	0.95	0.40	1.36		05/02/19 22:21	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Sample: IA-1 **Lab ID: 10472767001** Collected: 04/27/19 18:00 Received: 04/30/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**72.9**	ug/m3	56.3	12.8	40.8		05/03/19 14:15	127-18-4	
Tetrahydrofuran	**<0.35**	ug/m3	0.82	0.35	1.36		05/02/19 22:21	109-99-9	
Toluene	**18.0**	ug/m3	1.0	0.48	1.36		05/02/19 22:21	108-88-3	
1,2,4-Trichlorobenzene	**<5.1**	ug/m3	10.3	5.1	1.36		05/02/19 22:21	120-82-1	
1,1,1-Trichloroethane	**<0.42**	ug/m3	1.5	0.42	1.36		05/02/19 22:21	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/m3	1.5	0.34	1.36		05/02/19 22:21	79-00-5	
Trichloroethene	**<0.35**	ug/m3	0.74	0.35	1.36		05/02/19 22:21	79-01-6	
Trichlorofluoromethane	**<0.50**	ug/m3	1.6	0.50	1.36		05/02/19 22:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.77**	ug/m3	2.1	0.77	1.36		05/02/19 22:21	76-13-1	
1,2,4-Trimethylbenzene	**4.6**	ug/m3	1.4	0.61	1.36		05/02/19 22:21	95-63-6	
1,3,5-Trimethylbenzene	**1.7**	ug/m3	1.4	0.54	1.36		05/02/19 22:21	108-67-8	
Vinyl acetate	**<0.37**	ug/m3	2.4	0.37	1.36		05/02/19 22:21	108-05-4	
Vinyl chloride	**<0.17**	ug/m3	0.35	0.17	1.36		05/02/19 22:21	75-01-4	
m&p-Xylene	**4.1**	ug/m3	2.4	0.95	1.36		05/02/19 22:21	179601-23-1	
o-Xylene	**1.7**	ug/m3	1.2	0.47	1.36		05/02/19 22:21	95-47-6	

Sample: VP-1 **Lab ID: 10472767002** Collected: 04/27/19 18:55 Received: 04/30/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**1340**	ug/m3	4.3	2.2	1.79		05/02/19 22:49	67-64-1	E
Benzene	**3.0**	ug/m3	0.58	0.27	1.79		05/02/19 22:49	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.7	2.1	1.79		05/02/19 22:49	100-44-7	
Bromodichloromethane	**<0.66**	ug/m3	2.4	0.66	1.79		05/02/19 22:49	75-27-4	
Bromoform	**<2.5**	ug/m3	9.4	2.5	1.79		05/02/19 22:49	75-25-2	
Bromomethane	**<0.41**	ug/m3	1.4	0.41	1.79		05/02/19 22:49	74-83-9	
1,3-Butadiene	**<0.23**	ug/m3	0.81	0.23	1.79		05/02/19 22:49	106-99-0	
2-Butanone (MEK)	**20.3**	ug/m3	5.4	0.66	1.79		05/02/19 22:49	78-93-3	
Carbon disulfide	**<0.39**	ug/m3	1.1	0.39	1.79		05/02/19 22:49	75-15-0	
Carbon tetrachloride	**<0.77**	ug/m3	2.3	0.77	1.79		05/02/19 22:49	56-23-5	
Chlorobenzene	**<0.49**	ug/m3	1.7	0.49	1.79		05/02/19 22:49	108-90-7	
Chloroethane	**<0.47**	ug/m3	0.96	0.47	1.79		05/02/19 22:49	75-00-3	
Chloroform	**3.8**	ug/m3	0.89	0.35	1.79		05/02/19 22:49	67-66-3	
Chloromethane	**<0.28**	ug/m3	0.75	0.28	1.79		05/02/19 22:49	74-87-3	
Cyclohexane	**<0.63**	ug/m3	3.1	0.63	1.79		05/02/19 22:49	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.1	1.3	1.79		05/02/19 22:49	124-48-1	
1,2-Dibromoethane (EDB)	**<0.66**	ug/m3	2.8	0.66	1.79		05/02/19 22:49	106-93-4	
1,2-Dichlorobenzene	**<0.89**	ug/m3	2.2	0.89	1.79		05/02/19 22:49	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.2	1.0	1.79		05/02/19 22:49	541-73-1	
1,4-Dichlorobenzene	**<1.8**	ug/m3	5.5	1.8	1.79		05/02/19 22:49	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.8	0.52	1.79		05/02/19 22:49	75-71-8	
1,1-Dichloroethane	**<0.40**	ug/m3	1.5	0.40	1.79		05/02/19 22:49	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.74	0.27	1.79		05/02/19 22:49	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Sample: VP-1 **Lab ID: 10472767002** Collected: 04/27/19 18:55 Received: 04/30/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.49**	ug/m3	1.4	0.49	1.79		05/02/19 22:49	75-35-4	
cis-1,2-Dichloroethene	**<0.39**	ug/m3	1.4	0.39	1.79		05/02/19 22:49	156-59-2	
trans-1,2-Dichloroethene	**<0.51**	ug/m3	1.4	0.51	1.79		05/02/19 22:49	156-60-5	
1,2-Dichloropropane	**<0.41**	ug/m3	1.7	0.41	1.79		05/02/19 22:49	78-87-5	
cis-1,3-Dichloropropene	**<0.54**	ug/m3	1.7	0.54	1.79		05/02/19 22:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.79**	ug/m3	1.7	0.79	1.79		05/02/19 22:49	10061-02-6	
Dichlorotetrafluoroethane	**<0.78**	ug/m3	2.5	0.78	1.79		05/02/19 22:49	76-14-2	
Ethanol	**326**	ug/m3	3.4	1.5	1.79		05/02/19 22:49	64-17-5	
Ethyl acetate	**27.0**	ug/m3	1.3	0.34	1.79		05/02/19 22:49	141-78-6	
Ethylbenzene	**7.1**	ug/m3	1.6	0.55	1.79		05/02/19 22:49	100-41-4	
4-Ethyltoluene	**2.9J**	ug/m3	4.5	1.0	1.79		05/02/19 22:49	622-96-8	
n-Heptane	**6.0**	ug/m3	1.5	0.68	1.79		05/02/19 22:49	142-82-5	
Hexachloro-1,3-butadiene	**<3.5**	ug/m3	9.7	3.5	1.79		05/02/19 22:49	87-68-3	
n-Hexane	**7.8**	ug/m3	1.3	0.56	1.79		05/02/19 22:49	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.4	1.3	1.79		05/02/19 22:49	591-78-6	
Methylene Chloride	**8.2**	ug/m3	6.3	1.7	1.79		05/02/19 22:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.7J**	ug/m3	7.4	0.93	1.79		05/02/19 22:49	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.6	1.2	1.79		05/02/19 22:49	1634-04-4	
Naphthalene	**<2.4**	ug/m3	4.8	2.4	1.79		05/02/19 22:49	91-20-3	
2-Propanol	**388**	ug/m3	4.5	1.2	1.79		05/02/19 22:49	67-63-0	
Propylene	**<0.26**	ug/m3	0.63	0.26	1.79		05/02/19 22:49	115-07-1	
Styrene	**<0.62**	ug/m3	1.6	0.62	1.79		05/02/19 22:49	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/m3	1.2	0.52	1.79		05/02/19 22:49	79-34-5	
Tetrachloroethene	**287**	ug/m3	2.5	0.56	1.79		05/03/19 11:54	127-18-4	
Tetrahydrofuran	**6.3**	ug/m3	1.1	0.47	1.79		05/02/19 22:49	109-99-9	
Toluene	**11.3**	ug/m3	1.4	0.63	1.79		05/02/19 22:49	108-88-3	
1,2,4-Trichlorobenzene	**<6.7**	ug/m3	13.5	6.7	1.79		05/02/19 22:49	120-82-1	
1,1,1-Trichloroethane	**1.8J**	ug/m3	2.0	0.55	1.79		05/02/19 22:49	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.79		05/02/19 22:49	79-00-5	
Trichloroethene	**23.6**	ug/m3	0.98	0.46	1.79		05/02/19 22:49	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.0	0.66	1.79		05/02/19 22:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/m3	2.8	1.0	1.79		05/02/19 22:49	76-13-1	
1,2,4-Trimethylbenzene	**11.0**	ug/m3	1.8	0.81	1.79		05/02/19 22:49	95-63-6	
1,3,5-Trimethylbenzene	**3.6**	ug/m3	1.8	0.71	1.79		05/02/19 22:49	108-67-8	
Vinyl acetate	**<0.48**	ug/m3	3.2	0.48	1.79		05/02/19 22:49	108-05-4	
Vinyl chloride	**<0.23**	ug/m3	0.47	0.23	1.79		05/02/19 22:49	75-01-4	
m&p-Xylene	**17.4**	ug/m3	3.2	1.3	1.79		05/02/19 22:49	179601-23-1	
o-Xylene	**7.1**	ug/m3	1.6	0.62	1.79		05/02/19 22:49	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Sample: VP-2 **Lab ID: 10472767003** Collected: 04/27/19 19:02 Received: 04/30/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**1780**	ug/m3	43.1	21.7	17.9		05/03/19 13:49	67-64-1	
Benzene	**2.8**	ug/m3	0.58	0.27	1.79		05/02/19 23:18	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.7	2.1	1.79		05/02/19 23:18	100-44-7	
Bromodichloromethane	**<0.66**	ug/m3	2.4	0.66	1.79		05/02/19 23:18	75-27-4	
Bromoform	**<2.5**	ug/m3	9.4	2.5	1.79		05/02/19 23:18	75-25-2	
Bromomethane	**<0.41**	ug/m3	1.4	0.41	1.79		05/02/19 23:18	74-83-9	
1,3-Butadiene	**<0.23**	ug/m3	0.81	0.23	1.79		05/02/19 23:18	106-99-0	
2-Butanone (MEK)	**65.2**	ug/m3	5.4	0.66	1.79		05/02/19 23:18	78-93-3	
Carbon disulfide	**2.3**	ug/m3	1.1	0.39	1.79		05/02/19 23:18	75-15-0	
Carbon tetrachloride	**<0.77**	ug/m3	2.3	0.77	1.79		05/02/19 23:18	56-23-5	
Chlorobenzene	**<0.49**	ug/m3	1.7	0.49	1.79		05/02/19 23:18	108-90-7	
Chloroethane	**<0.47**	ug/m3	0.96	0.47	1.79		05/02/19 23:18	75-00-3	
Chloroform	**2.4**	ug/m3	0.89	0.35	1.79		05/02/19 23:18	67-66-3	
Chloromethane	**<0.28**	ug/m3	0.75	0.28	1.79		05/02/19 23:18	74-87-3	
Cyclohexane	**7.6**	ug/m3	3.1	0.63	1.79		05/02/19 23:18	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.1	1.3	1.79		05/02/19 23:18	124-48-1	
1,2-Dibromoethane (EDB)	**<0.66**	ug/m3	2.8	0.66	1.79		05/02/19 23:18	106-93-4	
1,2-Dichlorobenzene	**<0.89**	ug/m3	2.2	0.89	1.79		05/02/19 23:18	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.2	1.0	1.79		05/02/19 23:18	541-73-1	
1,4-Dichlorobenzene	**<1.8**	ug/m3	5.5	1.8	1.79		05/02/19 23:18	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.8	0.52	1.79		05/02/19 23:18	75-71-8	
1,1-Dichloroethane	**<0.40**	ug/m3	1.5	0.40	1.79		05/02/19 23:18	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.74	0.27	1.79		05/02/19 23:18	107-06-2	
1,1-Dichloroethene	**<0.49**	ug/m3	1.4	0.49	1.79		05/02/19 23:18	75-35-4	
cis-1,2-Dichloroethene	**<0.39**	ug/m3	1.4	0.39	1.79		05/02/19 23:18	156-59-2	
trans-1,2-Dichloroethene	**<0.51**	ug/m3	1.4	0.51	1.79		05/02/19 23:18	156-60-5	
1,2-Dichloropropane	**<0.41**	ug/m3	1.7	0.41	1.79		05/02/19 23:18	78-87-5	
cis-1,3-Dichloropropene	**<0.54**	ug/m3	1.7	0.54	1.79		05/02/19 23:18	10061-01-5	
trans-1,3-Dichloropropene	**<0.79**	ug/m3	1.7	0.79	1.79		05/02/19 23:18	10061-02-6	
Dichlorotetrafluoroethane	**<0.78**	ug/m3	2.5	0.78	1.79		05/02/19 23:18	76-14-2	
Ethanol	**97.2**	ug/m3	3.4	1.5	1.79		05/02/19 23:18	64-17-5	
Ethyl acetate	**28.4**	ug/m3	1.3	0.34	1.79		05/02/19 23:18	141-78-6	
Ethylbenzene	**5.7**	ug/m3	1.6	0.55	1.79		05/02/19 23:18	100-41-4	
4-Ethyltoluene	**4.0J**	ug/m3	4.5	1.0	1.79		05/02/19 23:18	622-96-8	
n-Heptane	**6.8**	ug/m3	1.5	0.68	1.79		05/02/19 23:18	142-82-5	
Hexachloro-1,3-butadiene	**<3.5**	ug/m3	9.7	3.5	1.79		05/02/19 23:18	87-68-3	
n-Hexane	**10.5**	ug/m3	1.3	0.56	1.79		05/02/19 23:18	110-54-3	
2-Hexanone	**1.5J**	ug/m3	7.4	1.3	1.79		05/02/19 23:18	591-78-6	CH
Methylene Chloride	**11.5**	ug/m3	6.3	1.7	1.79		05/02/19 23:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.0J**	ug/m3	7.4	0.93	1.79		05/02/19 23:18	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.6	1.2	1.79		05/02/19 23:18	1634-04-4	
Naphthalene	**<2.4**	ug/m3	4.8	2.4	1.79		05/02/19 23:18	91-20-3	
2-Propanol	**239**	ug/m3	4.5	1.2	1.79		05/02/19 23:18	67-63-0	
Propylene	**<0.26**	ug/m3	0.63	0.26	1.79		05/02/19 23:18	115-07-1	
Styrene	**<0.62**	ug/m3	1.6	0.62	1.79		05/02/19 23:18	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/m3	1.2	0.52	1.79		05/02/19 23:18	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Sample: VP-2 **Lab ID: 10472767003** Collected: 04/27/19 19:02 Received: 04/30/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**221**	ug/m3	2.5	0.56	1.79		05/03/19 13:21	127-18-4	
Tetrahydrofuran	**266**	ug/m3	10.7	4.7	17.9		05/03/19 13:49	109-99-9	
Toluene	**10.2**	ug/m3	1.4	0.63	1.79		05/02/19 23:18	108-88-3	
1,2,4-Trichlorobenzene	**<6.7**	ug/m3	13.5	6.7	1.79		05/02/19 23:18	120-82-1	
1,1,1-Trichloroethane	**4.7**	ug/m3	2.0	0.55	1.79		05/02/19 23:18	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.79		05/02/19 23:18	79-00-5	
Trichloroethene	**12.9**	ug/m3	0.98	0.46	1.79		05/02/19 23:18	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.0	0.66	1.79		05/02/19 23:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/m3	2.8	1.0	1.79		05/02/19 23:18	76-13-1	
1,2,4-Trimethylbenzene	**11.7**	ug/m3	1.8	0.81	1.79		05/02/19 23:18	95-63-6	
1,3,5-Trimethylbenzene	**<0.71**	ug/m3	1.8	0.71	1.79		05/02/19 23:18	108-67-8	
Vinyl acetate	**<0.48**	ug/m3	3.2	0.48	1.79		05/02/19 23:18	108-05-4	
Vinyl chloride	**<0.23**	ug/m3	0.47	0.23	1.79		05/02/19 23:18	75-01-4	
m&p-Xylene	**14.7**	ug/m3	3.2	1.3	1.79		05/02/19 23:18	179601-23-1	
o-Xylene	**5.8**	ug/m3	1.6	0.62	1.79		05/02/19 23:18	95-47-6	

Sample: VP-3 **Lab ID: 10472767004** Collected: 04/27/19 19:09 Received: 04/30/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**971**	ug/m3	4.2	2.1	1.75		05/02/19 23:47	67-64-1	E
Benzene	**2.7**	ug/m3	0.57	0.27	1.75		05/02/19 23:47	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.6	2.1	1.75		05/02/19 23:47	100-44-7	
Bromodichloromethane	**<0.64**	ug/m3	2.4	0.64	1.75		05/02/19 23:47	75-27-4	
Bromoform	**<2.5**	ug/m3	9.2	2.5	1.75		05/02/19 23:47	75-25-2	
Bromomethane	**<0.40**	ug/m3	1.4	0.40	1.75		05/02/19 23:47	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.79	0.22	1.75		05/02/19 23:47	106-99-0	
2-Butanone (MEK)	**16.0**	ug/m3	5.2	0.65	1.75		05/02/19 23:47	78-93-3	
Carbon disulfide	**<0.38**	ug/m3	1.1	0.38	1.75		05/02/19 23:47	75-15-0	
Carbon tetrachloride	**<0.75**	ug/m3	2.2	0.75	1.75		05/02/19 23:47	56-23-5	
Chlorobenzene	**<0.48**	ug/m3	1.6	0.48	1.75		05/02/19 23:47	108-90-7	
Chloroethane	**<0.46**	ug/m3	0.94	0.46	1.75		05/02/19 23:47	75-00-3	
Chloroform	**<0.34**	ug/m3	0.87	0.34	1.75		05/02/19 23:47	67-66-3	
Chloromethane	**<0.27**	ug/m3	0.74	0.27	1.75		05/02/19 23:47	74-87-3	
Cyclohexane	**6.9**	ug/m3	3.1	0.62	1.75		05/02/19 23:47	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.0	1.3	1.75		05/02/19 23:47	124-48-1	
1,2-Dibromoethane (EDB)	**<0.64**	ug/m3	2.7	0.64	1.75		05/02/19 23:47	106-93-4	
1,2-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		05/02/19 23:47	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.1	1.0	1.75		05/02/19 23:47	541-73-1	
1,4-Dichlorobenzene	**<1.8**	ug/m3	5.4	1.8	1.75		05/02/19 23:47	106-46-7	
Dichlorodifluoromethane	**<0.51**	ug/m3	1.8	0.51	1.75		05/02/19 23:47	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/m3	1.4	0.39	1.75		05/02/19 23:47	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.72	0.26	1.75		05/02/19 23:47	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Sample: VP-3 **Lab ID: 10472767004** Collected: 04/27/19 19:09 Received: 04/30/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.75		05/02/19 23:47	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.4	0.38	1.75		05/02/19 23:47	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/m3	1.4	0.50	1.75		05/02/19 23:47	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.6	0.40	1.75		05/02/19 23:47	78-87-5	
cis-1,3-Dichloropropene	**<0.53**	ug/m3	1.6	0.53	1.75		05/02/19 23:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.77**	ug/m3	1.6	0.77	1.75		05/02/19 23:47	10061-02-6	
Dichlorotetrafluoroethane	**<0.76**	ug/m3	2.5	0.76	1.75		05/02/19 23:47	76-14-2	
Ethanol	**156**	ug/m3	3.4	1.4	1.75		05/02/19 23:47	64-17-5	
Ethyl acetate	**24.6**	ug/m3	1.3	0.33	1.75		05/02/19 23:47	141-78-6	
Ethylbenzene	**6.8**	ug/m3	1.5	0.53	1.75		05/02/19 23:47	100-41-4	
4-Ethyltoluene	**4.6**	ug/m3	4.4	1.0	1.75		05/02/19 23:47	622-96-8	
n-Heptane	**6.6**	ug/m3	1.5	0.66	1.75		05/02/19 23:47	142-82-5	
Hexachloro-1,3-butadiene	**<3.4**	ug/m3	9.5	3.4	1.75		05/02/19 23:47	87-68-3	
n-Hexane	**10.8**	ug/m3	1.3	0.54	1.75		05/02/19 23:47	110-54-3	
2-Hexanone	**1.4J**	ug/m3	7.3	1.3	1.75		05/02/19 23:47	591-78-6	CH
Methylene Chloride	**5.6J**	ug/m3	6.2	1.7	1.75		05/02/19 23:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	**6.8J**	ug/m3	7.3	0.91	1.75		05/02/19 23:47	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.4	1.2	1.75		05/02/19 23:47	1634-04-4	
Naphthalene	**2.8J**	ug/m3	4.7	2.3	1.75		05/02/19 23:47	91-20-3	
2-Propanol	**205**	ug/m3	4.4	1.2	1.75		05/02/19 23:47	67-63-0	
Propylene	**<0.25**	ug/m3	0.61	0.25	1.75		05/02/19 23:47	115-07-1	
Styrene	**0.97J**	ug/m3	1.5	0.60	1.75		05/02/19 23:47	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.51**	ug/m3	1.2	0.51	1.75		05/02/19 23:47	79-34-5	
Tetrachloroethene	**49.4**	ug/m3	2.4	0.55	1.75		05/03/19 12:22	127-18-4	
Tetrahydrofuran	**10.5**	ug/m3	1.0	0.46	1.75		05/02/19 23:47	109-99-9	
Toluene	**10.7**	ug/m3	1.3	0.61	1.75		05/02/19 23:47	108-88-3	
1,2,4-Trichlorobenzene	**<6.5**	ug/m3	13.2	6.5	1.75		05/02/19 23:47	120-82-1	
1,1,1-Trichloroethane	**<0.54**	ug/m3	1.9	0.54	1.75		05/02/19 23:47	71-55-6	
1,1,2-Trichloroethane	**<0.44**	ug/m3	1.9	0.44	1.75		05/02/19 23:47	79-00-5	
Trichloroethene	**4.6**	ug/m3	0.96	0.45	1.75		05/02/19 23:47	79-01-6	
Trichlorofluoromethane	**<0.64**	ug/m3	2.0	0.64	1.75		05/02/19 23:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.99**	ug/m3	2.7	0.99	1.75		05/02/19 23:47	76-13-1	
1,2,4-Trimethylbenzene	**13.4**	ug/m3	1.7	0.79	1.75		05/02/19 23:47	95-63-6	
1,3,5-Trimethylbenzene	**3.5**	ug/m3	1.7	0.70	1.75		05/02/19 23:47	108-67-8	
Vinyl acetate	**<0.47**	ug/m3	3.1	0.47	1.75		05/02/19 23:47	108-05-4	
Vinyl chloride	**<0.22**	ug/m3	0.46	0.22	1.75		05/02/19 23:47	75-01-4	
m&p-Xylene	**15.8**	ug/m3	3.1	1.2	1.75		05/02/19 23:47	179601-23-1	
o-Xylene	**6.2**	ug/m3	1.5	0.60	1.75		05/02/19 23:47	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Sample: VP-4 **Lab ID: 10472767005** Collected: 04/27/19 19:17 Received: 04/30/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**1440**	ug/m3	4.3	2.2	1.79		05/03/19 00:17	67-64-1	E
Benzene	**2.3**	ug/m3	0.58	0.27	1.79		05/03/19 00:17	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.7	2.1	1.79		05/03/19 00:17	100-44-7	
Bromodichloromethane	**<0.66**	ug/m3	2.4	0.66	1.79		05/03/19 00:17	75-27-4	
Bromoform	**<2.5**	ug/m3	9.4	2.5	1.79		05/03/19 00:17	75-25-2	
Bromomethane	**<0.41**	ug/m3	1.4	0.41	1.79		05/03/19 00:17	74-83-9	
1,3-Butadiene	**<0.23**	ug/m3	0.81	0.23	1.79		05/03/19 00:17	106-99-0	
2-Butanone (MEK)	**22.0**	ug/m3	5.4	0.66	1.79		05/03/19 00:17	78-93-3	
Carbon disulfide	**2.3**	ug/m3	1.1	0.39	1.79		05/03/19 00:17	75-15-0	
Carbon tetrachloride	**<0.77**	ug/m3	2.3	0.77	1.79		05/03/19 00:17	56-23-5	
Chlorobenzene	**<0.49**	ug/m3	1.7	0.49	1.79		05/03/19 00:17	108-90-7	
Chloroethane	**<0.47**	ug/m3	0.96	0.47	1.79		05/03/19 00:17	75-00-3	
Chloroform	**<0.35**	ug/m3	0.89	0.35	1.79		05/03/19 00:17	67-66-3	
Chloromethane	**3.7**	ug/m3	0.75	0.28	1.79		05/03/19 00:17	74-87-3	
Cyclohexane	**<0.63**	ug/m3	3.1	0.63	1.79		05/03/19 00:17	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.1	1.3	1.79		05/03/19 00:17	124-48-1	
1,2-Dibromoethane (EDB)	**<0.66**	ug/m3	2.8	0.66	1.79		05/03/19 00:17	106-93-4	
1,2-Dichlorobenzene	**<0.89**	ug/m3	2.2	0.89	1.79		05/03/19 00:17	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.2	1.0	1.79		05/03/19 00:17	541-73-1	
1,4-Dichlorobenzene	**<1.8**	ug/m3	5.5	1.8	1.79		05/03/19 00:17	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.52	1.79		05/03/19 00:17	75-71-8	
1,1-Dichloroethane	**<0.40**	ug/m3	1.5	0.40	1.79		05/03/19 00:17	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.74	0.27	1.79		05/03/19 00:17	107-06-2	
1,1-Dichloroethene	**<0.49**	ug/m3	1.4	0.49	1.79		05/03/19 00:17	75-35-4	
cis-1,2-Dichloroethene	**<0.39**	ug/m3	1.4	0.39	1.79		05/03/19 00:17	156-59-2	
trans-1,2-Dichloroethene	**<0.51**	ug/m3	1.4	0.51	1.79		05/03/19 00:17	156-60-5	
1,2-Dichloropropane	**<0.41**	ug/m3	1.7	0.41	1.79		05/03/19 00:17	78-87-5	
cis-1,3-Dichloropropene	**<0.54**	ug/m3	1.7	0.54	1.79		05/03/19 00:17	10061-01-5	
trans-1,3-Dichloropropene	**<0.79**	ug/m3	1.7	0.79	1.79		05/03/19 00:17	10061-02-6	
Dichlorotetrafluoroethane	**<0.78**	ug/m3	2.5	0.78	1.79		05/03/19 00:17	76-14-2	
Ethanol	**233**	ug/m3	3.4	1.5	1.79		05/03/19 00:17	64-17-5	
Ethyl acetate	**15.8**	ug/m3	1.3	0.34	1.79		05/03/19 00:17	141-78-6	
Ethylbenzene	**5.1**	ug/m3	1.6	0.55	1.79		05/03/19 00:17	100-41-4	
4-Ethyltoluene	**2.1J**	ug/m3	4.5	1.0	1.79		05/03/19 00:17	622-96-8	
n-Heptane	**5.1**	ug/m3	1.5	0.68	1.79		05/03/19 00:17	142-82-5	
Hexachloro-1,3-butadiene	**<3.5**	ug/m3	9.7	3.5	1.79		05/03/19 00:17	87-68-3	
n-Hexane	**24.3**	ug/m3	1.3	0.56	1.79		05/03/19 00:17	110-54-3	
2-Hexanone	**1.6J**	ug/m3	7.4	1.3	1.79		05/03/19 00:17	591-78-6	CH
Methylene Chloride	**202**	ug/m3	6.3	1.7	1.79		05/03/19 00:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.2J**	ug/m3	7.4	0.93	1.79		05/03/19 00:17	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.6	1.2	1.79		05/03/19 00:17	1634-04-4	
Naphthalene	**<2.4**	ug/m3	4.8	2.4	1.79		05/03/19 00:17	91-20-3	
2-Propanol	**391**	ug/m3	4.5	1.2	1.79		05/03/19 00:17	67-63-0	
Propylene	**<0.26**	ug/m3	0.63	0.26	1.79		05/03/19 00:17	115-07-1	
Styrene	**<0.62**	ug/m3	1.6	0.62	1.79		05/03/19 00:17	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/m3	1.2	0.52	1.79		05/03/19 00:17	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Sample: VP-4 **Lab ID: 10472767005** Collected: 04/27/19 19:17 Received: 04/30/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**146**	ug/m3	3.3	0.75	2.4		05/03/19 12:52	127-18-4	
Tetrahydrofuran	**69.0**	ug/m3	1.1	0.47	1.79		05/03/19 00:17	109-99-9	
Toluene	**10.2**	ug/m3	1.4	0.63	1.79		05/03/19 00:17	108-88-3	
1,2,4-Trichlorobenzene	**<6.7**	ug/m3	13.5	6.7	1.79		05/03/19 00:17	120-82-1	
1,1,1-Trichloroethane	**1.4J**	ug/m3	2.0	0.55	1.79		05/03/19 00:17	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.79		05/03/19 00:17	79-00-5	
Trichloroethene	**8.1**	ug/m3	0.98	0.46	1.79		05/03/19 00:17	79-01-6	
Trichlorofluoromethane	**1.8J**	ug/m3	2.0	0.66	1.79		05/03/19 00:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/m3	2.8	1.0	1.79		05/03/19 00:17	76-13-1	
1,2,4-Trimethylbenzene	**7.9**	ug/m3	1.8	0.81	1.79		05/03/19 00:17	95-63-6	
1,3,5-Trimethylbenzene	**2.4**	ug/m3	1.8	0.71	1.79		05/03/19 00:17	108-67-8	
Vinyl acetate	**<0.48**	ug/m3	3.2	0.48	1.79		05/03/19 00:17	108-05-4	
Vinyl chloride	**<0.23**	ug/m3	0.47	0.23	1.79		05/03/19 00:17	75-01-4	
m&p-Xylene	**12.5**	ug/m3	3.2	1.3	1.79		05/03/19 00:17	179601-23-1	
o-Xylene	**5.1**	ug/m3	1.6	0.62	1.79		05/03/19 00:17	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

QC Batch: 603410 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10472767001, 10472767002, 10472767003, 10472767004, 10472767005

METHOD BLANK: 3261927 Matrix: Air
Associated Lab Samples: 10472767001, 10472767002, 10472767003, 10472767004, 10472767005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	05/02/19 10:43	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	0.70	05/02/19 10:43	
1,1,2-Trichloroethane	ug/m3	<0.25	1.1	05/02/19 10:43	MN
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	05/02/19 10:43	
1,1-Dichloroethane	ug/m3	<0.22	0.82	05/02/19 10:43	
1,1-Dichloroethene	ug/m3	<0.27	0.81	05/02/19 10:43	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	05/02/19 10:43	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	05/02/19 10:43	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	1.6	05/02/19 10:43	MN
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	05/02/19 10:43	
1,2-Dichloroethane	ug/m3	<0.15	0.41	05/02/19 10:43	
1,2-Dichloropropane	ug/m3	<0.23	0.94	05/02/19 10:43	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	05/02/19 10:43	
1,3-Butadiene	ug/m3	<0.13	0.45	05/02/19 10:43	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	05/02/19 10:43	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	05/02/19 10:43	
2-Butanone (MEK)	ug/m3	<0.37	3.0	05/02/19 10:43	
2-Hexanone	ug/m3	<0.74	4.2	05/02/19 10:43	
2-Propanol	ug/m3	<0.70	2.5	05/02/19 10:43	
4-Ethyltoluene	ug/m3	<0.57	2.5	05/02/19 10:43	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	05/02/19 10:43	
Acetone	ug/m3	<1.2	2.4	05/02/19 10:43	
Benzene	ug/m3	<0.15	0.32	05/02/19 10:43	
Benzyl chloride	ug/m3	<1.2	2.6	05/02/19 10:43	
Bromodichloromethane	ug/m3	<0.37	1.4	05/02/19 10:43	
Bromoform	ug/m3	<1.4	5.2	05/02/19 10:43	
Bromomethane	ug/m3	<0.23	0.79	05/02/19 10:43	
Carbon disulfide	ug/m3	<0.22	0.63	05/02/19 10:43	
Carbon tetrachloride	ug/m3	<0.43	1.3	05/02/19 10:43	
Chlorobenzene	ug/m3	<0.28	0.94	05/02/19 10:43	
Chloroethane	ug/m3	<0.26	0.54	05/02/19 10:43	
Chloroform	ug/m3	<0.20	0.50	05/02/19 10:43	
Chloromethane	ug/m3	<0.16	0.42	05/02/19 10:43	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	05/02/19 10:43	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	05/02/19 10:43	
Cyclohexane	ug/m3	<0.35	1.8	05/02/19 10:43	
Dibromochloromethane	ug/m3	<0.72	1.7	05/02/19 10:43	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	05/02/19 10:43	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	05/02/19 10:43	
Ethanol	ug/m3	<0.81	1.9	05/02/19 10:43	
Ethyl acetate	ug/m3	<0.19	0.73	05/02/19 10:43	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

METHOD BLANK: 3261927 Matrix: Air
Associated Lab Samples: 10472767001, 10472767002, 10472767003, 10472767004, 10472767005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	05/02/19 10:43	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	05/02/19 10:43	
m&p-Xylene	ug/m3	<0.70	1.8	05/02/19 10:43	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	05/02/19 10:43	
Methylene Chloride	ug/m3	<0.94	3.5	05/02/19 10:43	
n-Heptane	ug/m3	<0.38	0.83	05/02/19 10:43	
n-Hexane	ug/m3	<0.31	0.72	05/02/19 10:43	
Naphthalene	ug/m3	<1.3	2.7	05/02/19 10:43	
o-Xylene	ug/m3	<0.34	0.88	05/02/19 10:43	
Propylene	ug/m3	<0.14	0.35	05/02/19 10:43	
Styrene	ug/m3	<0.34	0.87	05/02/19 10:43	
Tetrachloroethene	ug/m3	<0.31	1.4	05/02/19 10:43	MN
Tetrahydrofuran	ug/m3	<0.26	0.60	05/02/19 10:43	
Toluene	ug/m3	<0.35	0.77	05/02/19 10:43	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	05/02/19 10:43	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	05/02/19 10:43	
Trichloroethene	ug/m3	<0.26	0.55	05/02/19 10:43	
Trichlorofluoromethane	ug/m3	<0.37	1.1	05/02/19 10:43	
Vinyl acetate	ug/m3	<0.27	1.8	05/02/19 10:43	MN
Vinyl chloride	ug/m3	<0.13	0.26	05/02/19 10:43	

LABORATORY CONTROL SAMPLE: 3261928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	65.2	118	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.5	95	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	66.1	119	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	87.2	112	70-130	
1,1-Dichloroethane	ug/m3	41.1	46.3	112	70-130	
1,1-Dichloroethene	ug/m3	40.3	46.5	115	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	105	140	56-130	CH,L3
1,2,4-Trimethylbenzene	ug/m3	50	51.4	103	70-134	
1,2-Dibromoethane (EDB)	ug/m3	78.1	88.1	113	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	68.7	113	70-132	
1,2-Dichloroethane	ug/m3	41.1	46.6	113	70-130	
1,2-Dichloropropane	ug/m3	47	53.2	113	70-130	
1,3,5-Trimethylbenzene	ug/m3	50	49.6	99	70-132	
1,3-Butadiene	ug/m3	22.5	24.5	109	65-130	
1,3-Dichlorobenzene	ug/m3	61.1	68.9	113	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	65.5	107	70-134	
2-Butanone (MEK)	ug/m3	30	29.9	100	70-130	
2-Hexanone	ug/m3	41.6	55.6	133	70-135	CH
2-Propanol	ug/m3	125	135	108	68-130	
4-Ethyltoluene	ug/m3	50	53.6	107	70-138	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

LABORATORY CONTROL SAMPLE: 3261928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	50.3	121	70-131	
Acetone	ug/m3	121	119	99	67-130	
Benzene	ug/m3	32.5	36.0	111	70-130	
Benzyl chloride	ug/m3	52.6	55.6	106	70-130	
Bromodichloromethane	ug/m3	68.1	75.9	111	70-130	
Bromoform	ug/m3	105	102	98	70-132	
Bromomethane	ug/m3	39.5	43.5	110	69-130	
Carbon disulfide	ug/m3	31.6	33.4	106	56-137	
Carbon tetrachloride	ug/m3	64	79.4	124	66-131	
Chlorobenzene	ug/m3	46.8	46.3	99	70-130	
Chloroethane	ug/m3	26.8	30.4	114	70-130	
Chloroform	ug/m3	49.6	56.8	114	70-130	
Chloromethane	ug/m3	21	24.6	117	66-130	
cis-1,2-Dichloroethene	ug/m3	40.3	47.2	117	70-130	
cis-1,3-Dichloropropene	ug/m3	46.1	54.1	117	70-133	
Cyclohexane	ug/m3	35	39.7	114	68-132	
Dibromochloromethane	ug/m3	86.6	99.6	115	70-130	
Dichlorodifluoromethane	ug/m3	50.3	55.8	111	70-130	
Dichlorotetrafluoroethane	ug/m3	71	83.2	117	70-130	
Ethanol	ug/m3	95.8	110	115	68-133	
Ethyl acetate	ug/m3	36.6	45.2	123	69-130	
Ethylbenzene	ug/m3	44.1	45.2	102	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	116	107	66-137	
m&p-Xylene	ug/m3	88.3	87.8	99	70-132	
Methyl-tert-butyl ether	ug/m3	36.6	40.8	111	70-130	
Methylene Chloride	ug/m3	177	189	107	65-130	
n-Heptane	ug/m3	41.7	45.0	108	65-130	
n-Hexane	ug/m3	35.8	38.4	107	66-130	
Naphthalene	ug/m3	53.3	55.0	103	56-130	
o-Xylene	ug/m3	44.1	41.8	95	70-130	
Propylene	ug/m3	17.5	18.5	106	67-130	
Styrene	ug/m3	43.3	43.7	101	69-136	
Tetrachloroethene	ug/m3	68.9	73.6	107	70-130	
Tetrahydrofuran	ug/m3	30	35.9	120	68-131	
Toluene	ug/m3	38.3	42.6	111	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	47.9	119	70-130	
trans-1,3-Dichloropropene	ug/m3	46.1	55.4	120	70-134	
Trichloroethene	ug/m3	54.6	59.3	109	70-130	
Trichlorofluoromethane	ug/m3	57.1	64.3	113	65-130	
Vinyl acetate	ug/m3	35.8	37.3	104	61-133	
Vinyl chloride	ug/m3	26	30.5	117	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1604-1011-0002 Polished Nail S
Pace Project No.: 10472767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10472767001	**IA-1**	TO-15	603410		
10472767002	**VP-1**	TO-15	603410		
10472767003	**VP-2**	TO-15	603410		
10472767004	**VP-3**	TO-15	603410		
10472767005	**VP-4**	TO-15	603410		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DOCUMENT. All relevar

WO# : 10472767

10472767

34433

Page: 1 of 1

Section A
Required Client Information:

Company: ICEY Engineering
Address: 735 N Water St. MKE, WI. 53202
Email To: tschoen@keyengineering.com
Phone: Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: Toni Schoen
Copy To:
Purchase Order No.: 183504
Project Name: Polished Nail Salon
Project Number: 1604-1011-0002

Section C
Invoice Information:

Attention: Toni Schoen
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WT

Reporting Units
ug/m³ mg/m³
PPBV PPMV
Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	Sample ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	IA-1	6LC	X	4/27/19	10:00am	4/27/19	6:00pm	28	1	1615	02866					✓					001
2	VP-1	↓	X		6:25pm		6:55pm	29	8	3382	10002					✓					002
3	VP-2		X		6:32pm		7:02pm	30	8	3512	17003					✓					003
4	VP-3		X		6:39pm		7:09pm	29	8	1642	12377					✓					004
5	VP-4		X		6:47pm		7:17pm	29	8	0596	28495					✓					005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	4/28/19		SAMPLE	4.30-19	1045

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jason Draus
SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 04/28/19

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

2

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 31Jan2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.18	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt **Client Name:** Key **Project #:** **WO# : 10472767**

PM: KNH **Due Date: 05/07/19**

CLIENT: Key Eng.

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exception** ☐

Tracking Number: 4545 9911 3492 3481

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: _____ **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermometer Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 4-30-19 AM

Type of ice Received ☐ Blue ☐ Wet ☑ None

		Comments:
Chain of Custody Present?	☑ Yes ☐ No	1.
Chain of Custody Filled Out?	☑ Yes ☐ No	2.
Chain of Custody Relinquished?	☑ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☑ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☑ No	6.
Rush Turn Around Time Requested?	☐ Yes ☑ No	7.
Sufficient Volume?	☑ Yes ☐ No	8.
Correct Containers Used? -Pace Containers Used?	☑ Yes ☐ No ☑ Yes ☐ No	9.
Containers Intact?	☑ Yes ☐ No	10.
Media: Air Can Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☑ Yes ☐ No	12.
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	☑ Yes ☐ No	13.

Samples Received: Pressure Gauge # ☐ 10AIR34 ☐ 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
IA-1	1615	0286	-0.5	+5					
VP-1	3382	1002	-7.5	"					
-2	3512	1703	-7.5	"					
-3	1642	1237	-7	"					
-4	0596	2845	-7.5	"					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kristen Hoffberg **Date:** 5/1/2019

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Notice: Use this form to request **a written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

Definitions

"Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

"Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

"Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

"Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

This from should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do not use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: dnr.wi.gov/topic/Brownfields/Pubs.html.

Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf"

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

Section 1. Contact and Recipient Information

Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name	First	MI	Organization/ Business Name		
Roth	Randall		Endeavour Corp Inc.		
Mailing Address			City	State	ZIP Code
330 East Kilbourn Avenue, Suite 1160			Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email		
(414) 331-1939			randy@end-corp.com		

The requester listed above: (select all that apply)

- ☐ Is currently the owner
- ☐ Is considering selling the Property
- ☐ Is renting or leasing the Property
- ☐ Is considering acquiring the Property
- ☐ Is a lender with a mortgagee interest in the Property
- ☒ Other. Explain the status of the Property with respect to the applicant:

responsible party for the environmental work

Contact Information (to be contacted with questions about this request) ☐ Select if same as requester

Contact Last Name	First	MI	Organization/ Business Name		
Schoen	Toni		Key Engineering Group, Ltd		
Mailing Address			City	State	ZIP Code
735 North Water Street, Suite 510			Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email		
(414) 225-0594	(414) 224-8383		tschoen@keyengineering.com		

Environmental Consultant (if applicable)

Contact Last Name	First	MI	Organization/ Business Name		
Schoen	Toni		Key Engineering Group, Ltd		
Mailing Address			City	State	ZIP Code
735 North Water Street, Suite 510			Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email		
(414) 225-0594	(414) 224-8383		tschoen@keyengineering.com		

Property Owner (if different from requester)

Contact Last Name	First	MI	Organization/ Business Name		
Roth	Randall		TR Partners LLC		
Mailing Address			City	State	ZIP Code
330 East Kilbourn Avenue, Suite 1160			Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email		
(414) 331-1939			randy@end-corp.com		

Section 2. Property Information

Property Name			FID No. (if known)
1681-1683 North Van Buren Street			341143220
BRRTS No. (if known)	Parcel Identification Number		
02-41-562442	3600006100		
Street Address	City	State	ZIP Code
1681 North Van Buren Street	Milwaukee	WI	53202

County	Municipality where the Property is located	Property is composed of:	Property Size Acres
Milwaukee	(●) City ( ) Town ( ) Village of Milwaukee	(●) Single tax parcel ( ) Multiple tax parcels	0

1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

(●) No ( ) Yes

Date requested by: _____

Reason:

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

(●) No. **Include the fee that is required for your request in Section 3, 4 or 5.**

( ) Yes. **Do not include a separate fee.** This request will be billed separately through the VPLE Program.

Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:
Section 3. Technical Assistance or Post-Closure Modifications;
Section 4. Liability Clarification; or Section 5. Specialized Agreement.

Section 3. Request for Technical Assistance or Post-Closure Modification

Select the type of technical assistance requested: **[Numbers in brackets are for WI DNR Use]**

- [ ] No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of $350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.
- [ ] Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of $700.**
- [x] Review of Site Investigation Report - NR 716.15, [137] - ~~**Include a fee of $1050.**~~ NO FEE
- [ ] Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of $1050.**
- [ ] Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of $1050.**
- [ ] Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of $1050.**
- [ ] Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of $350**
- [ ] Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of $425.**
- [ ] Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of $425.**

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

- [ ] Schedule a Technical Assistance Meeting - **Include a fee of $700.**
- [ ] Hazardous Waste Determination - **Include a fee of $700.**
- [ ] Other Technical Assistance - **Include a fee of $700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

- [ ] Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of $1050, and:**
  - [ ] Include a fee of $300 for sites with residual soil contamination; and
  - [ ] Include a fee of $350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form.

Section 4. Request for Liability Clarification

Select the type of liability clarification requested. Use the available space given or attach information, explanations, or specific questions that you need answered in DNR's reply. Complete Sections 6 and 7 of this form. **[Numbers in brackets are for DNR Use]**

☐ "Lender" liability exemption clarification - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of $700.**

Provide the following documentation:

(1) ownership status of the real Property, and/or the personal Property and fixtures;

(2) an environmental assessment, in accordance with s. 292.21, Wis. Stats.;

(3) the date the environmental assessment was conducted by the lender;

(4) the date of the Property acquisition; for foreclosure actions, include a copy of the signed and dated court order confirming the sheriff's sale.

(5) documentation showing how the Property was acquired and the steps followed under the appropriate state statutes.

(6) a copy of the Property deed with the correct legal description; and,

(7) the Lender Liability Exemption Environmental Assessment Tracking Form (Form 4400-196).

(8) If no sampling was done, please provide reasoning as to why it was **not** conducted. Include this either in the accompanying environmental assessment or as an attachment to this form, and cite language in s. 292. 21(1)(c)2.,h.-i., Wis. Stats.:

h. The collection and analysis of representative samples of soil or other materials in the ground that are suspected of being contaminated based on observations made during a visual inspection of the real Property or based on aerial photographs, or other information available to the lender, including stained or discolored soil or other materials in the ground and including soil or materials in the ground in areas with dead or distressed vegetation. The collection and analysis shall identify contaminants in the soil or other materials in the ground and shall quantify concentrations.

i. The collection and analysis of representative samples of unknown wastes or potentially hazardous substances found on the real Property and the determination of concentrations of hazardous waste and hazardous substances found in tanks, drums or other containers or in piles or lagoons on the real Property.

☐ "Representative" liability exemption clarification (e.g. trustees, receivers, etc.) - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of $700.**

Provide the following documentation:

(1) ownership status of the Property;

(2) the date of Property acquisition by the representative;

(3) the means by which the Property was acquired;

(4) documentation that the representative has no beneficial interest in any entity that owns, possesses, or controls the Property;

(5) documentation that the representative has not caused any discharge of a hazardous substance on the Property; and

(6) a copy of the Property deed with the correct legal description.

☐ Clarification of local governmental unit (LGU) liability exemption at sites with: (select all that apply)

☐ hazardous substances spills - s. 292.11(9)(e), Wis. Stats. [649];

☐ Perceived environmental contamination - [649];

☐ hazardous waste - s. 292.24 (2), Wis. Stats. [649]; and/or

☐ solid waste - s. 292.23 (2), Wis. Stats. [649].

❖ **Include a fee of $700, a summary of the environmental liability clarification being requested, and the following:**

(1) clear supporting documentation showing the acquisition method used, and the steps followed under the appropriate state statute(s).

(2) current and proposed ownership status of the Property;

(3) date and means by which the Property was acquired by the LGU, where applicable;

(4) a map and the ¼, ¼ section location of the Property;

(5) summary of current uses of the Property;

(6) intended or potential use(s) of the Property;

(7) descriptions of other investigations that have taken place on the Property; and

(8) (for solid waste clarifications) a summary of the license history of the facility.

Section 4. Request for Liability Clarification (cont.)

☐ Lease liability clarification - s. 292.55, Wis. Stats. [646]

- ❖ **Include a fee of $700 for a single Property, or $1400 for multiple Properties and the information listed below:**

(1) a copy of the proposed lease;

(2) the name of the current owner of the Property and the person who will lease the Property;

(3) a description of the lease holder's association with any persons who have possession, control, or caused a discharge of a hazardous substance on the Property;

(4) map(s) showing the Property location and any suspected or known sources of contamination detected on the Property;

(5) a description of the intended use of the Property by the lease holder, with reference to the maps to indicate which areas will be used. Explain how the use will not interfere with any future investigation or cleanup at the Property; and

(6) all reports or investigations (e.g. Phase I and Phase II Environmental Assessments and/or Site Investigation Reports conducted under s. NR 716, Wis. Adm. Code) that identify areas of the Property where a discharge has occurred.

General or other environmental liability clarification - s. 292.55, Wis. Stats. [682] - Explain your request below.

- ❖ **Include a fee of $700 and an adequate summary of relevant environmental work to date.**

☐ No Action Required (NAR) - NR 716.05, [682]

- ❖ **Include a fee of $700.**

Use where an environmental discharge has or has not occurred, and applicant wants a DNR determination that no further assessment or clean-up work is required. Usually this is requested after a Phase I and Phase II environmental assessment has been conducted; the assessment reports should be submitted with this form. This is not a closure letter.

☐ Clarify the liability associated with a "closed" Property - s. 292.55, Wis. Stats. [682]

- ❖ **Include a fee of $700.**

- Include a copy of any closure documents if a state agency other than DNR approved the closure.

Use this space or attach additional sheets to provide necessary information, explanations or specific questions to be answered by the DNR.

Section 5. Request for a Specialized Agreement

Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: dnr.wi.gov/topic/Brownfields/lgu.html#tabx4.

☐ Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]

- ❖ **Include a fee of $700, and the information listed below:**

(1) Phase I and II Environmental Site Assessment Reports,

(2) a copy of the Property deed with the correct legal description.

☐ Agreement for assignment of tax foreclosure judgement - s.75.106, Wis. Stats. [666]

- ❖ **Include a fee of $700, and the information listed below:**

(1) Phase I and II Environmental Site Assessment Reports,

(2) a copy of the Property deed with the correct legal description.

☐ Negotiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630]

- ❖ **Include a fee of $1400, and the information listed below:**

(1) a draft schedule for remediation; and,
(2) the name, mailing address, phone and email for each party to the agreement.

Section 6. Other Information Submitted

Identify all materials that are included with this request.

Send both a paper copy of the signed form and all reports and supporting materials, and an electronic copy of the form and all reports, including Environmental Site Assessment Reports, and supporting materials on a compact disk.

Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.

- ☐ Phase I Environmental Site Assessment Report - Date: _____
- ☐ Phase II Environmental Site Assessment Report - Date: _____
- ☒ Legal Description of Property (required for all liability requests and specialized agreements)
- ☒ Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

☒ Groundwater ☒ Soil ☐ Sediment ☒ Other medium - Describe: vaport

Date of Collection: _____

- ☐ A copy of the closure letter and submittal materials
- ☐ Draft tax cancellation agreement
- ☐ Draft agreement for assignment of tax foreclosure judgment
- ☐ Other report(s) or information - Describe: _____

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

- ○ Yes - Date (if known): _____
- ◉ No

Note: The Notification for Hazardous Substance Discharge (non-emergency) form is available at: dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf.

Section 7. Certification by the Person who completed this form

- ☐ I am the person submitting this request (requester)
- ☒ I prepared this request for: _____

Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.

Signature	Date Signed
Lou Schoen	8-19-19
Senior Project Manager	(414) 225-0594
Title	Telephone Number (include area code)

Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a DNR regional brownfields specialist with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf.

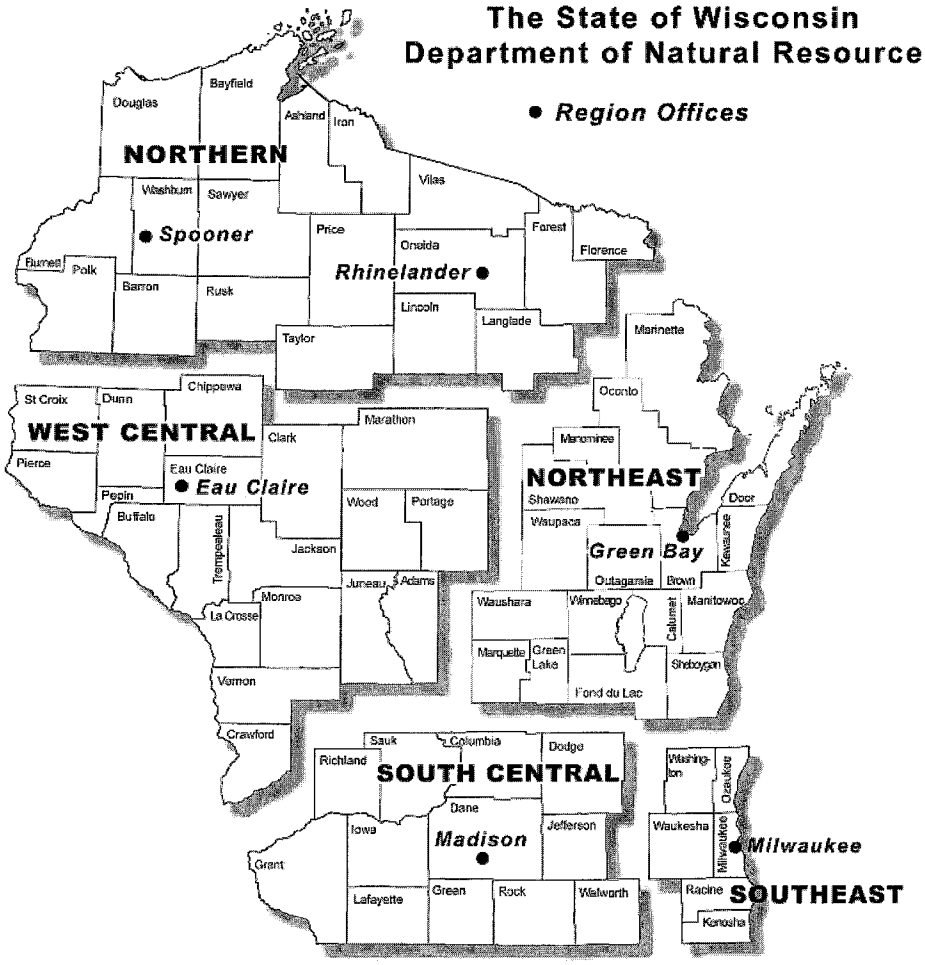
DNR NORTHERN REGION
Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

DNR NORTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313

DNR SOUTH CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

DNR SOUTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee WI 53212

DNR WEST CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702



Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer	Comments		
Fee Enclosed? ◯ Yes ◯ No	Fee Amount $	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		