Hazardous Waste Section

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Facility Characterization Report
Petty Machine Company, Inc.
Gastonia, NC
S&ME Project No. 4335-15-109

Prepared for:
Petty Machine Company, Inc.
2403 Forbes Road
Gastonia, North Carolina 28052

Prepared by:
S&ME, Inc.
9751 Southern Pine Boulevard
Charlotte, NC 28273

June 10, 2016

LETTER OF TRANSMITTAL

DATE: 6/10/2015

S&ME, INC
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Phone: 704-523-4726
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TO: **Mary Siedlecki**
NCDEQ, DWM, HWS
Green Square Office Complex
217 West Jones Street
Raleigh, NC 27603

FROM: **Scott Young**

WE ARE SENDING YOU _X_ Attached __ Under separate cover via ___ the following items:

____ Shop drawings ____ Prints ____ Plans ____ Samples ____Specifications
____ Copy of letter _X_ Reports _____

COPIES	DATE	NO.	DESCRIPTION
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			Petty Machine Company, Inc. (NCD 991 278 805)
			2403 Forbes Road, Gastonia, Gaston County, North Carolina

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REMARKS:

Mrs. Siedlecki,

Please find the attached report for the referenced Site. Please contact us if you have any questions.

Regards,

Al Quarles

COPY TO: File
Larry Petty - Petty Machine Company, Inc.

S&ME Project No.: 4335-15-109

Signed: Scott Young

IF ENCLOSURES ARE NOT AS NOTED, PLEASE NOTIFY US AT ONCE.

This Letter of Transmittal and the documents accompanying this Letter of Transmittal contain information from S&ME, Inc., which is confidential and legally privileged. The information is intended only for use of the individual or entity named on this Letter of Transmittal. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance on these documents is strictly prohibited.

June 10, 2016

Petty Machine Company, Inc.
2403 Forbes Road
Gastonia, North Carolina 28052

Attention: Mr. Larry Petty

Reference: **Facility Characterization Report**
Petty Machine Company, Inc.
Gastonia, North Carolina 28052
S&ME Project No. 4335-15-109

Dear Mr. Petty:

S&ME, Inc. (S&ME), submits this Facility Characterization Report for the above referenced site in general accordance with S&ME Proposal No. 43-1500896 dated October 14, 2105. This report details the facility characterization sampling activities, sampling results, and presents our conclusions and recommendations.

Should you have any questions regarding this report, please feel free to contact us at your convenience.

Sincerely,

S&ME, Inc.

Scott Young
Project Professional

Al Quarles, L.G.
Senior Geologist
Registration No. 1133

NORTH CAROLINA LICENSED SEAL 1133 GEOLOGIST AL QUARLES

MSY/waq

T:\...\PMC Facility Characterization Report 2016-06-10.docx

cc: Ms. Mary Siedlecki, NCDEQ, DWM, HWS
Green Square Office Complex, 217 West Jones St., Raleigh, NC 27603

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1.0 Introduction

The purpose of this report is to present the results of the facility characterization activities. Site activities included:

1. Collection of soil samples from the following areas of interest (AOIs):
    - Solid Waste Management Unit (SMWU) 1: Former Metal Plating Building
    - Area of Concern (AOC) 1: Trichloroethene (TCE) Surface Release Area
    - AOC 2: Sandblasting (Glass Bead Blasting) Unit Ventilation System
    - AOC 3: Former Metal Plating Building Ventilation System
2. Installation of, and collection of a groundwater sample from, monitoring well MW-7C.
3. Collection of indoor air samples.
4. Measurement of the horizontal coordinates of the outside soil boring locations using a Trimble GeoXH 2005 Series Global Positioning System (GPS).

2.0 Site Description

The site is located about five miles south of Gastonia at the intersection of Highway 321 South and Forbes Road (**Figures I-1** and **I-2, Appendix I**). The Petty Machine Company, Inc. (PMC) facility is located on a 15-acre plot bordered on the south by Forbes Rd, on the west by Hwy 321 and on the north and east by private property.

The company has produced custom process machines and machine parts since 1966. Manufacturing processes include machining, finishing and assembly of equipment. From the late 1970's through 1991, finishing processes included nickel and chrome plating which generated D007 and F006 waste. The facility originally disposed of hazardous waste off-site, but by 1983, the amount of waste generated by PMC was too great to transport all of the waste off-site for disposal at one time. To address this issue, PMC constructed the Former Holding Tank (SWMU 2), an above-ground storage tank (AST), on-site for the storage of the metal plating wastes. After plating activities ceased at PMC, the AST was removed in June 1994, and PMC received closure approval from North Carolina Department of Environmental Quality (NCDEQ) in 1994. Current manufacturing processes at the PMC facility include machining, finishing, and the assembly of equipment and parts. Finishing processes no longer involve metal plating.

Between 1992 and 1997, fifteen monitoring wells and eight piezometers were installed for the purposes of evaluating groundwater quality and groundwater flow conditions at the site (**Figure I-3**). Monitoring well MW-1 was installed adjacent and to the east of SWMU 2. One monitoring well (MW-8) installed to evaluate the up-gradient extent of chlorinated solvents detected in monitoring well MW-1, indicated the presence of chlorinated solvents at higher levels that those detected in monitoring well MW-1. According to facility representatives, a former employee was observed dumping TCE on the soil behind the Former Metal Plating Building. The timing of the release could not be confirmed. Subsequent soil sampling in the area of monitoring well MW-8 confirmed the presence of chlorinated solvents in the soil in the area of the reported release. This area has been identified as Area of Concern #1 (AOC 1).

During the course of groundwater assessment activities, chromium has been detected in monitoring wells MW-4 and MW-11 at levels consistently above the 15A NCAC 2L .0202 Groundwater Quality Standards (2L Standards). The source and extent of the chromium at these two locations has not been assessed. Chromium levels in the groundwater from the remaining monitoring wells are below the 2L Standards.

Continued semi-annual groundwater monitoring of the site monitoring wells includes the sampling of all wells (excluding monitoring well MW-3) for volatile organics, and also includes the sampling of monitoring wells MW-4 and MW-11 for total chromium.

Topographically, the site is located on the eastern slope of a north trending ridge on which US Highway 321 is situated. Ground surface elevations range from approximately 750 feet National Geodetic Vertical Datum of 1929 (NGVD) near the southwest corner of the property to approximately 676 feet - NGVD near a tributary located 1,800 feet east of the former tank (**Figure I-1** and **Figure I-2**). The site is located within the Charlotte Belt of the Piedmont Physiographic Province. The crystalline rocks occurring in this area of the belt consist of metagranitoid rocks of Cambrian Age.

Surface water from the site flows to the east toward two unnamed tributaries located approximately 100 feet northeast of monitoring wells MW-7A/7B and approximately 300 feet southeast of monitoring wells MW-7A/7B. The tributaries become perennial streams (suggesting groundwater discharge) approximately 200 feet east of monitoring wells MW-7A/7B. These tributaries converge approximately 1,300 feet east of monitoring wells MW-7A/7B, with the combined flow to the east-northeast and approximately 700 feet south of monitoring wells MW-7A/7B. The tributary converges with Crowders Creek which flows southerly to the Broad River in South Carolina.

3.0 Facility Characterization Activities

The sections below describe the methodologies used during the facility characterization activities.

3.1 SWMU 1: Former Metal Plating Building

On January 12, 2016, S&ME provided oversight for the advancement of two soil borings (SM1-1 and SM1-2) to depths of approximately 10 feet below land surface (ft-bls) using a Geoprobe®. The locations of the soil borings are depicted on **Figure I-4**. Two soil samples were collected from each soil boring, at depths of approximately zero to one ft-bls and nine to 10 ft-bls. The soil samples were submitted to Con-Test Analytical Laboratory (Con-Test), a NCDEQ certified laboratory, for the analysis of the eight RCRA Metals, nickel, and hexavalent chromium.

Portions of the soil samples collected for laboratory analysis were screened for relative concentrations of volatile organics using a Photoionization Detector (PID). Boring logs for the soil borings are provided in **Appendix IV**. Soils not used for the submittal of soil samples collected from SWMU 1 were containerized in a dedicated, properly labeled 55-gallon drum.

3.1.1 SMWU 1: Former Metal Plating Building Cleaning

Prior to S&ME collecting the soil samples from the Former Metal Plating Building, PMC cleaned the area and removed all drummed material from the area. Five 55-gallon drums of "floor sweepings", two drums of nitric acid, and one drum of Clepo EN300 were removed from the area by US Waste Industries. In

addition, US Waste Industries also removed a plating tank from the building. A copy of the drum contents and drum identifications, and photographs (taken on August 20, 2015) of the Metal Plating Building after cleaning activities are included in **Appendix III.**

Samples were collected from each of the five drums of "floor sweepings" (S1 through S5), two drums of nitric acid (NA1 and NA2), and one drum of Clepo EN300 (EN1). The samples were submitted to Test America Laboratories, Inc., a NCDEQ certified laboratory, for analysis of Toxicity Leaching Characteristic Procedure (TCLP) Metals by EPA Method 6010C and 7470A (all samples) and for TCLP Corrosivity (NA1, NA2, and EN1). The laboratory results indicated concentrations of chromium in samples S3, S4, S5, NA1, NA2, and EN1 greater than its Maximum TCLP Concentration of 5.0 milligrams per liter. In addition, concentrations of arsenic, cadmium, and lead were greater than their Maximum TCLP Concentrations in the samples NA1 and NA2. Samples NA1 and NA2 also exhibited hazardous corrosivity characteristic with pH values less than or equal to two (2) Standard Units. The analytical results for samples S1 and S2 did not indicated any metal concentrations exceeding the laboratory reporting limits that were equal to or less than one-tenth of the Maximum TCLP Concentrations. A copy of the laboratory analytical report is included in **Appendix V**.

On November 24, 2015, the drums were transported by Spectra Environmental to EWS Alabama in Glencoe, Alabama for disposal as hazardous waste (4 drums), corrosive liquid (2 drums) and non-hazardous waste (2 drums). On November 24, 2015, two containers with the chromium tank debris (1,000 pounds), was transported by Spectra Environmental and Freehold Cartage, Inc., to Michigan Disposal Waste Treatment Plant (EPA I.D. No. MID000724831) in Belleville, Michigan for disposal as hazardous waste. Copies of the waste disposal manifests for the drums and tank debris and a Certificate of Disposal for the tank debris are included in **Appendix III**.

3.2 AOC 1: TCE Surface Release Area

On January 7 and 11, 2016, S&ME provided oversight for the advancement of four soil borings (AC1-1, AC1-2, AC1-3, and AC1-4) to depths of approximately 40 ft-bls using a Geoprobe®. The locations of the soil borings are depicted on **Figure I-4**. Soil samples were collected continuously using a 5-foot long sampler and acetate sleeves.

Portions of each 5-foot interval from each soil boring were screened for relative concentrations of volatile organics using a PID. The soil sample from each soil boring exhibiting the highest PID readings from the depth intervals of zero to 20 ft-bls and 30 to 40 ft-bls were selected for submittal for laboratory analysis. The soil samples were submitted to Con-Test for the analysis of volatile organic compounds (VOCs) by EPA Method 8260B. The soil samples collected from soil boring AC1-1 were also submitted for analysis of total and hexavalent chromium in order to assist in evaluating AOC 3. Boring logs for the soil borings are provided in **Appendix IV**. Soils not used for the submittal of soil samples collected from AOC 1 were containerized in a dedicated, properly labeled 55-gallon drum.

3.3 AOC 2: Sandblasting (Glass Bead Blasting) Unit Ventilation System

On January 7, 2016, S&ME provided oversight for the advancement of three soil borings (AC2-2, AC2-3, and AC2-4) to depths of approximately 10 ft-bls using a Geoprobe®. The locations of the soil borings are depicted on **Figure I-4**. Soil samples were collected continuously using a 5-foot long sampler and acetate sleeves. Soil samples were collected from depths of approximately zero to one ft-bls and nine to 10 ft-bls

from soil borings AC2-2, AC2-3, and AC2-4. Soil boring AC2-1 was advanced on January 11, 2016, to depth of 5 ft-bls using a hand auger. Soil samples were collected from depths of approximately zero to 0.5 ft-bls and 4.5 to five ft-bls from soil boring AC2-1. Portions of soil samples collected for laboratory analysis were screened for relative concentrations of volatile organics using a PID.

The soil samples from all soil borings were submitted to Con-Test for the analysis of total and hexavalent chromium. Boring logs for the soil borings are provided in **Appendix IV**. Soils not used for the submittal of soil samples collected from AC2-2, AC2-3, and AC2-4 were containerized in a dedicated, properly labeled 55-gallon drum. Soils not used for the submittal of soil samples collected from AC2-1 were containerized in a separate dedicated, properly labeled 55-gallon drum.

3.4 Monitoring Well Installation

Between January 6 and 12, 2016, S&ME provided oversight for the installation of deep Type III monitoring well MW-7C using a Geoprobe® and drill rig utilizing air hammer technology. The location of monitoring well MW-7C is depicted on **Figure I-3**. During the installation of monitoring well MW-7C soils observed were sandy clays, silty clays, and clays to a depth of approximately 65 ft-bls. Residual structure observed in the soil (foliation) indicates the soil to be weathered metamorphic rock. Partially weathered rock was observed from approximately 65 to 115 ft-bls.

Apparent competent rock was observed from approximately 115 ft-bls until the termination of the boring at approximately 145 ft-bls. A highly fractured zone exists from approximately 133 ft-bls until at least the termination depth, which resulted in the borehole collapsing and forcing the monitoring well to set at a total depth of approximately 133 ft-bls. After reaching the 145-foot depth, there was difficulty encountered in removing the drilling rods and bit, apparently due to the fractured rock collapsing around the bit, and while inserting the outer casing.

A six-inch schedule 40 PVC outer casing was installed to depth of approximately 125 ft-bls. A five-foot section of two-inch schedule 40 slotted PVC screen was installed between approximately 128 and 133 ft-bls, with sufficient two-inch schedule 40 PVC casing to bring the well to above the ground surface. The well was completed with a locking expansion well plug and a steel stick-up protective casing within an approximate 2 foot square concrete pad. The boring log and Well Construction Record for monitoring well MW-7C is provided in **Appendix IV**. Soil cuttings generated during the installation and construction of monitoring well MW-7C were containerized in dedicated, properly labeled 55-gallon drums. Approximately 70 gallons of water was removed from monitoring well MW-7C during well development activities and placed into dedicated, properly labeled 55-gallon drums.

3.5 Groundwater Sampling

On January 27, 2016, S&ME collected a groundwater sample from monitoring well MW-7C. The location of monitoring well MW-7C is depicted on **Figure I-3**. Prior to collecting the groundwater sample, S&ME measured the depth to water in monitoring well MW-7C from the top of the well casing, which was measured at 30.27 feet below the top of casing. After measuring the depth to water, S&ME purged the monitoring well using low flow purge techniques. Once purging was complete the groundwater sample was collected and submitted to Con-Test for the analysis of VOCS by Standard Method 6200B. A copy of the sample notes is included in **Appendix VI**.

3.6 Vapor Intrusion Sampling

On January 27, 2016, S&ME collected three indoor air samples (IA-VI-1, IA-VI-2, and IA-VI-3) and one ambient outdoor or background sample (IA-VI-BG) from the locations shown on **Figure I-4**. The canisters were placed on step stools at heights of approximately 2.5 to 3.5 feet above the ground surface. The samples were collected by attaching an 8-hour regulator to a 6-liter Summa canister, then opening the flow regulator to allow the collection of vapor. The canisters were monitored periodically throughout the 8 hour period to prevent the vacuum levels to decrease to 5 or less inches of mercury. The final vacuum levels ranged from 7 to 10 inches of mercury. The samples were submitted to Con-Test for analysis of select VOCs by EPA Method TO-15. A copy of the sampling field notes and photographs of the sample locations are included in **Appendix VI**.

3.7 Investigative Derived Waste

As discussed in **Sections 3.1** through **3.4** above, soils not used in the collection of samples, the soil cuttings generated during the installation of monitoring well MW-7C, and purge water generated during the sampling of monitoring well MW-7C were containerized in dedicated, labeled 55-gallon drums.

Based upon the analytical results from the samples collected from SWMU 1, AOC 1, and AOC 2, the containerized soils from these areas will be disposed off-site as a special waste, in accordance with a February 10, 2016 email from Mary Siedlecki of the NCDEQ. In addition, the containerized purge water from the monitoring well MW-7C sampling will also be disposed off-site as a special waste.

On February 12, 2016, S&ME collected one composite sample of the soil cuttings from the installation of monitoring well MW-7C. The sample was analyzed for VOCs using EPA Method 8260 and for chromium and hexavalent chromium using EPA Method 6010C and 7196A. A copy of the laboratory analytical report for the sample collected from the soil cuttings generated during the monitoring well MW-7C installation is provided in **Appendix V**. Based upon the analytical results the drummed cuttings will be disposed on-site, as approved in a February 24, 2016 email from Ms. Siedlecki.

Documentation of the transport and disposal of the containerized soil and groundwater will be provided to the NCDEQ in a subsequent submittal.

3.8 Quality Assurance/Quality Control Sampling

Three types of field Quality Assurance/Quality Control (QA/QC) samples were collected: equipment blanks, trip blanks and field duplicates.

3.8.1 Equipment Blanks

To verify that no constituents are introduced into the sample from sampling equipment, equipment blanks were collected on January 7, 12, and 27, 2016. The equipment blanks collected on January 7 and 12, 2016 were collected by pouring distilled, deionized organic-free water through an unused Geoprobe® Macrocore® liner pulled from the same lot as the Geoprobe® Macrocore® liners used for soil samples collected on January 7 or 12, 2016, respectively. These equipment blank samples were submitted to Con-Test for analysis of VOCs by Standard Method 6200B and for RCRA Metals, nickel, and hexavalent chromium. The equipment blank collected on January 27, 2016 was collected by pouring distilled, deionized organic-free water through an unused portion of tubing connected to the pump used for the

collection of the monitoring well MW-7C sample. This equipment blank was submitted to Con-Test for the analysis of VOCs by Standard Method 6200B.

3.8.2 Trip Blanks

Trip blanks are collected in association with samples that are to be analyzed for VOCs. Trip blanks travel to the site from the laboratory with the empty sample bottles and return from the site to the laboratory with the collected samples in an effort to simulate sample handling conditions and to check for sample contamination. Trip Blanks were submitted with each cooler containing samples (excluding the MW-7C soil cuttings sample) submitted for laboratory analysis for VOCs. The trip blank samples were also submitted for analysis for VOCs by Standard Method 6200B.

3.8.3 Field Duplicates

To evaluate the precision of field collection procedures and laboratory analyses, the following field duplicate samples were collected and submitted to the laboratory for analyses:

- SL-AC1-3 (39.0-40.0)
- SL-AC2-1 (0.0-0.5)
- SL-SM1-1 (0.0-1.0)
- MW-7C
- IA-VI-1

The field duplicates were submitted for laboratory analysis for the same analyses as the record samples.

4.0 Laboratory Analytical Results

4.1 SWMU 1: Former Metal Plating Building Sample Results

Laboratory analytical results of the samples collected from SWMU 1 indicated hexavalent chromium in soil sample SL-SM1-2 (9.0-10.0) at a concentration of 2.7 milligrams per kilogram (mg/kg) greater than the Residential Preliminary Soil Remediation Goal (PSRG) of 0.3 mg/kg. Hexavalent chromium was not detected at concentrations greater than the laboratory method reporting limits in the remaining samples collected. In addition, barium, total chromium, lead, nickel, and mercury were detected in each sample at concentrations greater than the laboratory method reporting limits, but less than their respective PSRGs. A summary of the soil sample analytical results is included as **Table II-1**. A copy of the laboratory report is included in **Appendix V**.

4.2 AOC 1: TCE Surface Release Area Sample Results

Laboratory analytical results of the samples collected from AOC 1 indicated 1,4-dioxane, TCE, and vinyl chloride in soil sample SL-AC1-1 (10.0-15.0) at concentrations greater than their respective Protection of Groundwater PSRGs. 1,4-Dioxane and vinyl chloride were not detected in any of the other samples, including sample SL-AC1-2, at concentrations equal to or greater than the laboratory detection limits.

1,1-DCA, 1,1-DCE, cis-1,2-DCE, and TCE were detected in one or more of samples from soil borings SL-AC1-1, SL-AC1-2, SL-AC1-3 at concentrations greater than the laboratory method reporting limits, but less

than their respective PSRGs. No VOCs were detected at concentrations greater than the laboratory method reporting limits in the samples collected from soil boring SL-AC1-4. Total chromium was detected in soil samples collected from soil boring SL-AC1-1 at concentrations less than the PSRGs, while hexavalent chromium was not detected at concentrations greater than the laboratory method detection limits. A summary of the soil sample analytical results is included as **Table II-1**. A copy of the laboratory report is included in **Appendix V**.

Based on the historical soil sampling results conducted in the area of AOC 1, the estimated extents of exceedances of the Industrial and Protection of Groundwater PSRGs are illustrated on **Figure I-5**. Note that the previous soil samples were collected in March and May 1996, and thus, the results may not indicated current concentrations.

4.3 AOC 2: Sandblasting (Glass Bead Blasting) Unit Ventilation System Sample Results

Laboratory analytical results of the samples collected from AOC 2 indicated hexavalent chromium in samples SL-AC2-1 (0.0-0.5) and SL-AC2-3 (0.0-1.0) at concentrations greater than its Residential PSRG. Hexavalent chromium was not detected in any of the remaining samples collected from AOC 2 at concentrations greater than the laboratory method detection limits. Concentrations of total chromium were detected in each of the samples collected from AOC 2 at concentrations less than its PSRGs. A summary of the soil sample analytical results is included as **Table II-1**. A copy of the laboratory report is included in **Appendix V**.

4.4 MW-7C Groundwater Sample Results

Laboratory analytical results of the groundwater sample collected from monitoring well MW-7C indicated 1,1-dichloroethane (1,1-DCA), 1,1-Dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), and TCE at concentrations greater than their respective 2L Standards. 1,1,1-Trichloroethane (1,1,1-TCA) was also detected in the sample collected from monitoring well MW-7C at a concentration less than its 2L Standard. No additional compounds were detected in the groundwater sample collected from monitoring well MW-7C. A summary of recent groundwater analytical results is included as **Table II-2**. A copy of the laboratory report is included in **Appendix V**.

Based on the most recent groundwater sampling results from October 2015 and January 2016, the estimated horizontal and vertical extents of VOCs exceeding the 2L Standards are presented in **Figure I-6** and **Figure I-7**, respectively.

4.5 Vapor Intrusion Sample Results

Laboratory analytical results of the indoor air samples collected indicated TCE in all three samples (IA-VI-1, IA-VI-2, and IA-VI-3) at concentrations ranging from 1.4 to 2.2 micrograms per cubic meter ($\mu g/m^3$) compared to the Indoor Air Screening Level (IASL) of 1.75 $\mu g/m^3$. Other target VOCs [1,1-DCA, 1,2-DCA, 1,1-DCE, tetrachloroethene (PCE), and 1,1,1-TCA] were also detected in one or more of the at concentrations less than their respective IASLs. No compounds were detected in the background sample IA-VI-BG. A summary of the indoor air analytical results is included as **Table II-3**. A copy of the laboratory report is included in **Appendix V**.

On May 12, 2016, Ms. Siedlecki submitted the results of an indoor air concentration to risk evaluation for the three indoor air samples conducted by Sandra Leigh Mort, a toxicologist within the NCDEQ, DWM, Hazardous Waste Section. The evaluation was based on the U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response (OSWER), now named Office of Land and Emergency Management (OLEM), Vapor Intrusion Assessment, Vapor Intrusion Screening Level (VISL) Calculator, and risk criteria established by the NCDEQ. The NCDEQ's vapor intrusion evaluation was based on a "commercial" exposure scenario, and the results are included in **Appendix VII**. Based on the NCDEQ's evaluation, none of the calculated cumulative carcinogenic risk (CR) or hazard quotient (HQ) values exceeded the $1x10^{-4}$ or 1 criteria, respectively. As indicated in **Table 4.1**, the maximum calculated CR and HQ values were 1 percent and 24 percent, of the NCDEQ's criteria, respectively.

Table 4-1. Cumulative Indoor Air Risk Values

Sample/Criteria	CR	HQ
IA-VI-1	1.10E-06	2.27E-01
IA-VI-2	7.60E-07	2.36E-01
IA-VI-3	5.80E-07	2.00E-01
Maximum	1.10E-06	2.36E-01
Criteria	1.00E-04	1.00E+00
Maximum/Criteria	1%	24%

4.6 Quality Assurance/Quality Control Sample Results

Duplicates and equipment blanks were collected and analyzed as part of the facility characterization event for QA/QC purposes. No compounds were detected in equipment blanks EB-1 or EB-2, associated with the soil sampling activities, collected on January 7 and 12, 2016, respectively. An estimated concentration of toluene was detected in the equipment blank EB-3, associated with the monitoring well MW-7C groundwater sampling, collected on January 27, 2016. However, toluene was not detected in the MW-7C sample. In addition, no compounds were detected at concentrations greater than the laboratory method detection limits in any of the trip blank samples.

The Relative Percent Differences (RPD) in the samples and duplicate samples collected during the facility characterization sampling event are presented in the tables below for compounds detected in both samples. The results indicated overall good correlation except for the VOCs or hexavalent chromium reported at low concentrations in the soil samples or the PCE results for the indoor air sample.

Table 4-2 Soil Duplicate Samples Comparison

Sample ID	Date	Compound	Result (mg/kg)	Duplicate (mg/kg)	RPD (%)
SL-AC1-3 (39.0-40.0)	01/07/16	cis-1,2-dichloroethene	0.057	0.016	112
		TCE	0.0046	0.0011	123
SL-AC2-1 (0.0-0.5)	01/11/16	Total Chromium	34	35	3
		Hexavalent Chromium	0.71	0.96	30

Sample ID	Date	Compound	Result (mg/kg)	Duplicate (mg/kg)	RPD (%)
SL-SM1-1 (0.0-1.0)	01/12/16	Barium	130	110	17
		Total Chromium	25	23	8
		Lead	13	15	14
		Nickel	9.9	9.1	8
		Mercury	0.043	0.042	2

RPD = Relative Percent Difference
Absolute Value of (Result – Duplicate) / ((Result + Duplicate)/2) * 100
mg/kg = milligrams per kilogram

Table 4-3 Groundwater Duplicate Sample Comparison

Sample ID	Date	Compound	Result (µg/L)	Duplicate (µg/L)	RPD (%)
MW-7C	01/27/16	1,1-Dichloroethane	36	36	0
		1,1-Dichloroethene	840	840	0
		cis-1,2-dichloroethene	480	490	2
		1,1,1-Trichloroethane	12	13	8
		TCE	310	320	3

RPD = Relative Percent Difference
Absolute Value of (Result – Duplicate) / ((Result + Duplicate)/2) * 100
µg/L = micrograms per liter

Table 4-4 Indoor Air Duplicate Sample Comparison

Sample ID	Date	Compound	Result (µg/m³)	Duplicate (µg/m³)	RPD (%)
IA-VI-1	01/27/16	1,1-Dichloroethane	0.36	0.33	9
		1,2-Dichloroethane	11	12	9
		1,1-Dichloroethene	11	11	0
		Tetrachloroethene	0.78	0.44	56
		1,1,1-Trichloroethane	4.8	4.6	4
		TCE	2.2	2.1	5

RPD = Relative Percent Difference
Absolute Value of (Result – Duplicate) / ((Result + Duplicate)/2) * 100
µg/m^3 = micrograms per cubic meter

5.0 Summary of Findings

The following conclusions are presented based on the sampling results to date:

1. For **SWMU 1, Former Plating Building**: Only one soil sample (SL-SM1-2, 9.0-10.0 ft-bls) contained only one metal (hexavalent chromium) at a concentration greater than the Residential PSRGs. None of the other samples contained metals at concentrations greater than the Protection of Groundwater or Industrial PSRGs.
2. For **AOC 1, TCE Surface Release Area**: Only one soil sample (SL-AC-1, 10.0-15.0 ft-bls) contained VOCs (1,4-dioxane, TCE, and vinyl chloride) at concentrations greater than the Protection of Groundwater PSRGs, but were less than the Residential or Industrial PSRGs. None of the additional soil samples contained VOCs at concentrations greater than the PSRGs. The groundwater sample collected from monitoring well MW-7C indicated several VOCs at concentrations greater than their respective 2L Standards.
3. For **AOC 2, Sandblasting (Glass Bead Blasting) Unit Ventilation System**: Two soil samples (SL-AC2-1, 0.0-0.5 ft-bls, and SL-AC2-3, 0.0-0.5 ft-bls) contained hexavalent chromium at concentrations greater than the Residential PSRGs. None of the other hexavalent chromium concentrations, or any of the calculated trivalent chromium concentrations, were greater than the PSRGs.
4. For **AOC 3, Former Metal Plating Building Ventilation System**: The soil samples collected from boring SL-AC1 analyzed for total and hexavalent chromium, did not contain concentrations greater than the PSRGs.
5. For **Vapor Intrusion relative to SWMU 1 and AOC 1**: TCE was detected in all three indoor air samples at concentrations greater than the IASLs. While several of the other target VOCs were detected in the samples, none of the concentrations were greater than the IASLs. Based on the NCDEQ's indoor air concentrations to risk calculations, none of the cumulative risk or hazard quotients exceeded the NCDEQ's criteria for a "commercial" scenario.

6.0 Conclusions

1. For **SWMU 1, Former Plating Building**: The one detection of hexavalent chromium at a concentration exceeding the Residential PSRG was at a depth 9.0-10.0 ft-bls. The area is covered by a building, and the use of the property is industrial. With only two soil sample locations, the extent of impact greater than the Residential PSRGs is not defined. The detection of hexavalent chromium in soil sample SL-SM1-1 was less than the Industrial and Protection of Groundwater PSRGs for hexavalent chromium.
2. For **AOC 1, TCE Surface Release Area**: The soil sampling results indicate that the extent of the soil impact from the TCE release is defined to the north, northeast, and east, but not defined to the west or southeast (beneath the building). Note that the previous soil sampling was conducted in March and May of 1996, and some decrease in concentrations would be anticipated. The groundwater sampling results from monitoring well MW-7C contained VOCs at concentrations exceeding the 2L Standards, thus the vertical extent is not defined.
3. For **AOC 2, Sandblasting (Glass Bead Blasting) Unit Ventilation System**: The vertical extent of hexavalent chromium greater than the Residential PSRGs appears to be relatively shallow, although the detection limits for the deeper samples (4.5-5.0 ft-bls) were greater than the Residential PSRG. Thus, the actual concentration could not be confirmed. The source of the

hexavalent chromium at sample SL-AC2-3, 0.0-0.5 ft-bls, is not known. With the two detections of hexavalent chromium at concentration greater than the Residential PSRGs, the horizontal extent is not defined.

4. For **AOC 3, Former Metal Plating Building Ventilation System**: The soil samples collected from boring SL-AC1 analyzed for total and hexavalent chromium, did not contain concentrations greater than the PSRGs.
5. For **Vapor Intrusion relative to SWMU 1 and AOC 1**: The VOCs detected in the indoor air samples were not detected at concentrations that resulted in cumulative risk or hazard quotients that exceeded the NCDEQ's criteria for a "commercial" scenario.

7.0 Recommendations

1. **SWMU 1, Former Plating Building**: Since the only exceedance of the PSRGs was the Residential PSRGs and the use of the property is industrial and anticipated to remain industrial, no further assessment of soil is recommended. S&ME recommends that a Land Use Restriction be prepared for the property that would in part, restrict the land us to non-residential uses. This would allow for a Notice of No Further Action for SWMU 1 to be issued by the NCDEQ.

2. **AOC 1, TCE Surface Release Area**: No further assessment of the extent of VOCs in the soil and groundwater is recommended for AOC 1. However, since the previous soil sampling was conducted in March and May of 1996, S&ME recommends limited sampling of soil in the area of AOC 1 to evaluate the current levels of VOCs in the soil where exceedances were previously detected. The results would also assist in the preparation of a Remedial Action Plan for AOC 1.

3. For **AOC 2, Sandblasting (Glass Bead Blasting) Unit Ventilation System**: Due to the limited exceedances of the Residential PSRGs for hexavalent chromium, and the land use, no additional assessment of chromium is recommended. However, S&ME recommends that a Land Use Restriction be prepared for the property that would in part, restrict the land us to non-residential uses. This would allow for a Notice of No Further Action for AOC 2 to be issued by the NCDEQ.

4. For **AOC 3, Former Metal Plating Building Ventilation System**: No further action is recommended for AOC 3.

5. For **Vapor Intrusion relative to SWMU 1 and AOC 1**: No further action is recommended relative to vapor intrusion.

Appendices

Appendix I – Figures

Figure I-1. Site Location Map

Figure I-2. Site Aerial Map

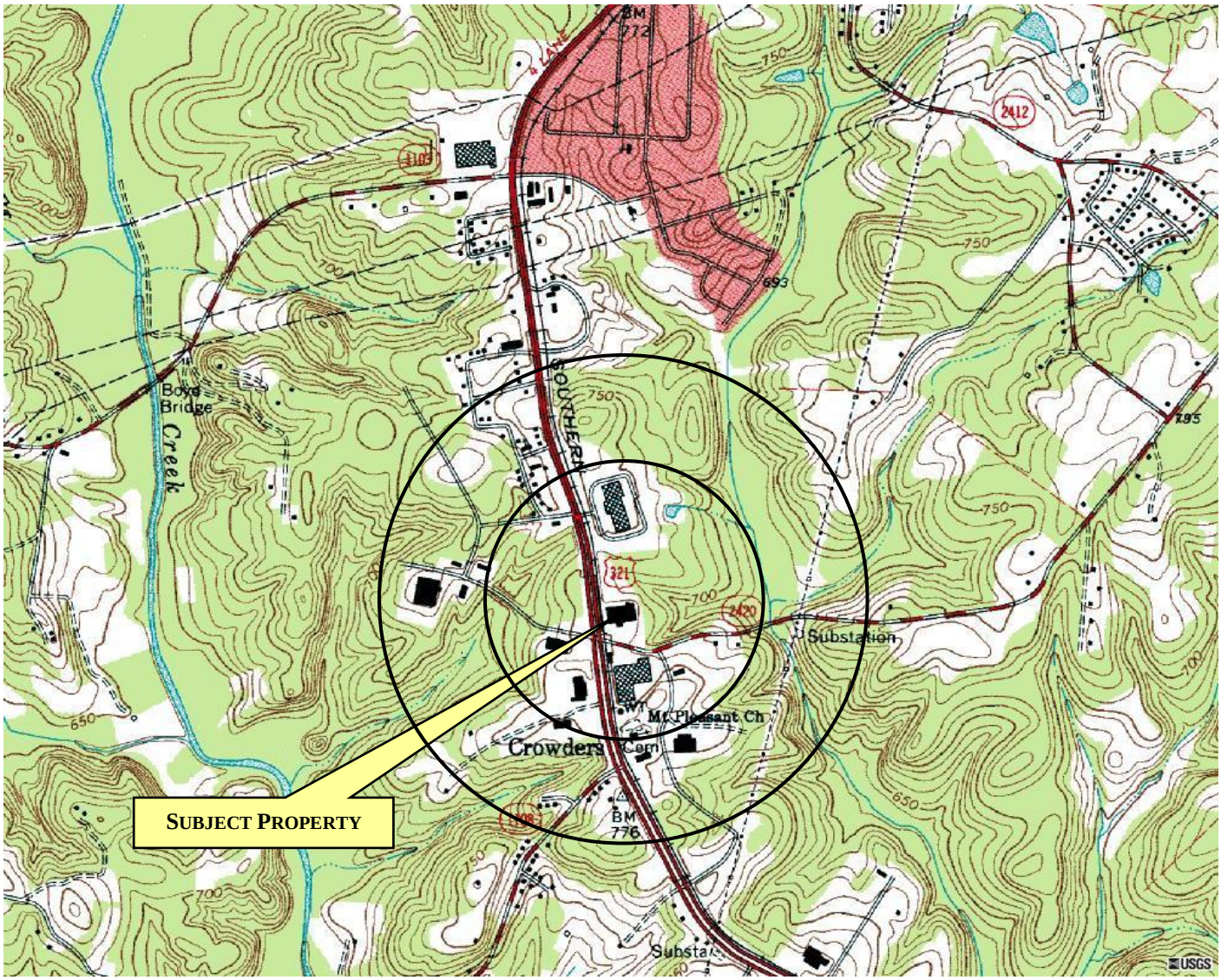
Figure I-3. Site Plan

Figure I-4. Soil Boring and Indoor Air Sample Locations

Figure I-5. AOC 1 Soil Contamination Map

Figure I-6. Horizontal Groundwater Contamination Map

Figure I-7. Vertical Groundwater Contamination Map



1 In ~ 1,800 Ft

Base map from USGS Gastonia South, NC-SC,
7.5 Minute Series Quadrangle, 1993

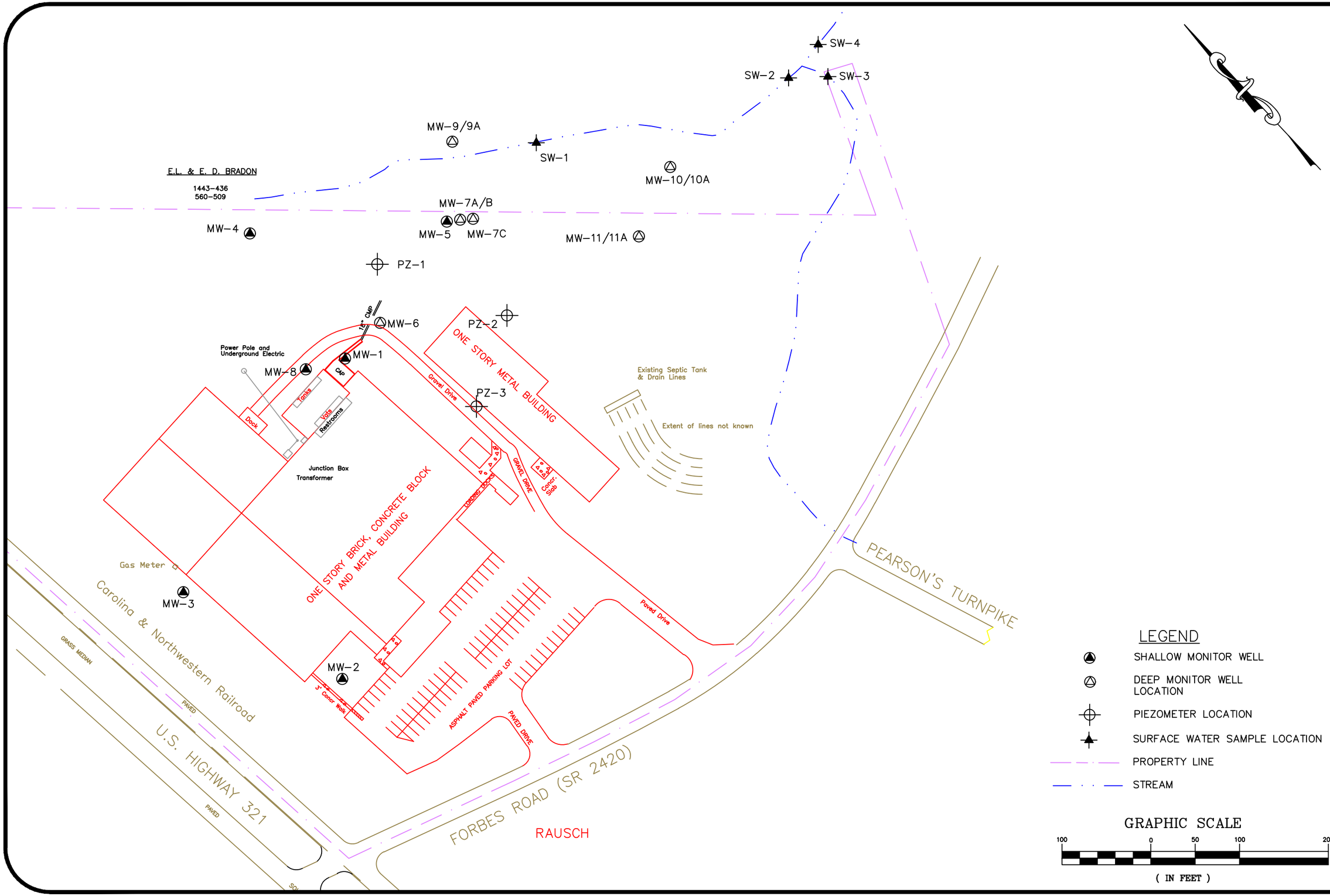
Circles are 1,500 feet and ½ mile radii

Scale: As Shown	S&ME	**Site Location Map** Petty Machine Company Gastonia, North Carolina	**Figure**
Drawn by: MSY			
Checked by: WAQ			**1**
Date: 11-23-2015		Job No.: 4335-15-109	

1 In ~ 320 Ft

Base map obtained Gaston County GIS
Topographic Elevations in Feet
Aerial Map, 2005

Scale: As Shown	S&ME	**Site Aerial Map** Petty Machine Company Gastonia, North Carolina	**Figure**
Drawn by: CSM			
Checked by: WAQ			**2**
Date: 5-28-14		Job No.: 4335-15-109	



DATE: 02-15-16
DRAWN BY: MSY
CHECKED BY:
SCALE: AS SHOWN
PROJECT NO. 4335-15-109

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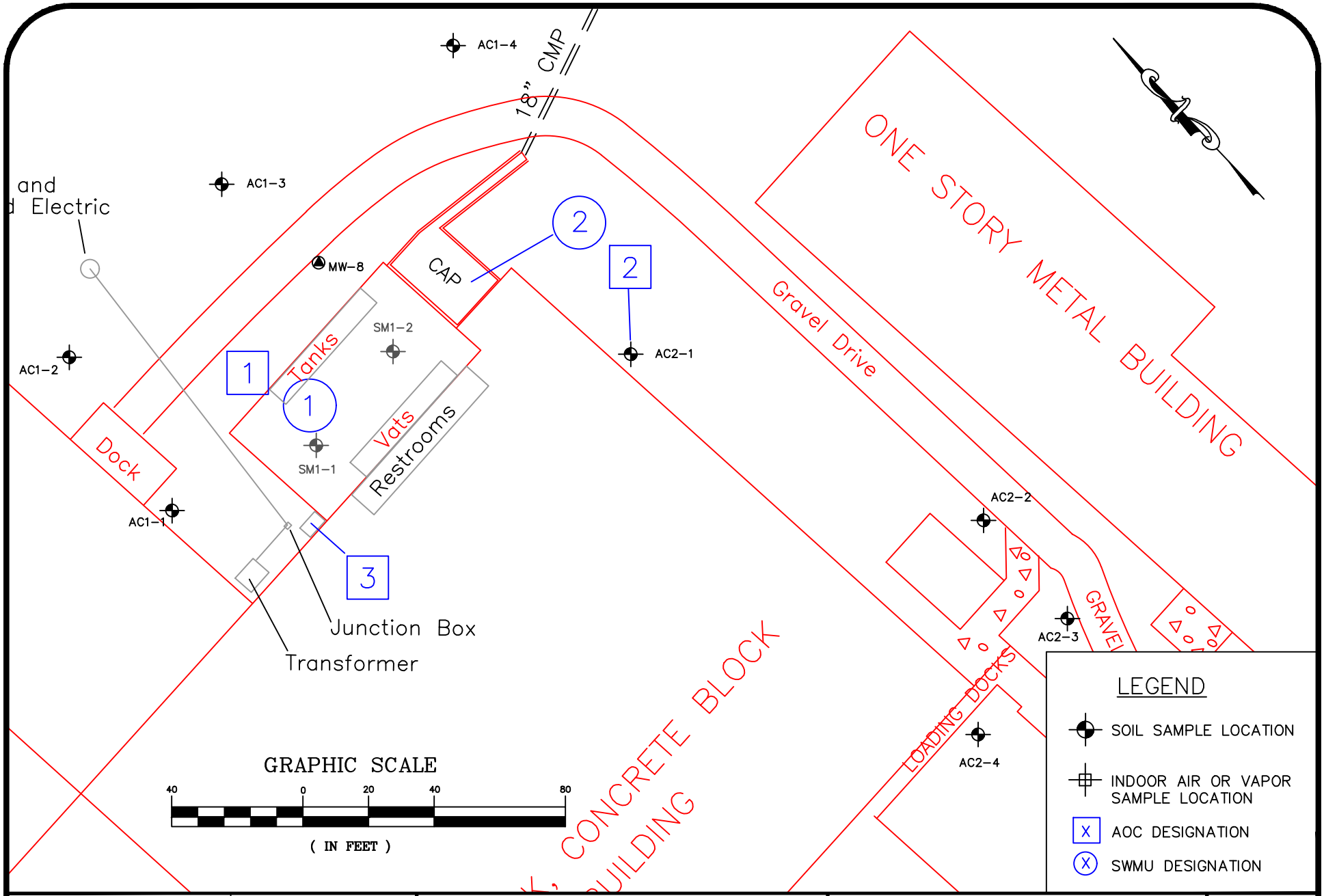
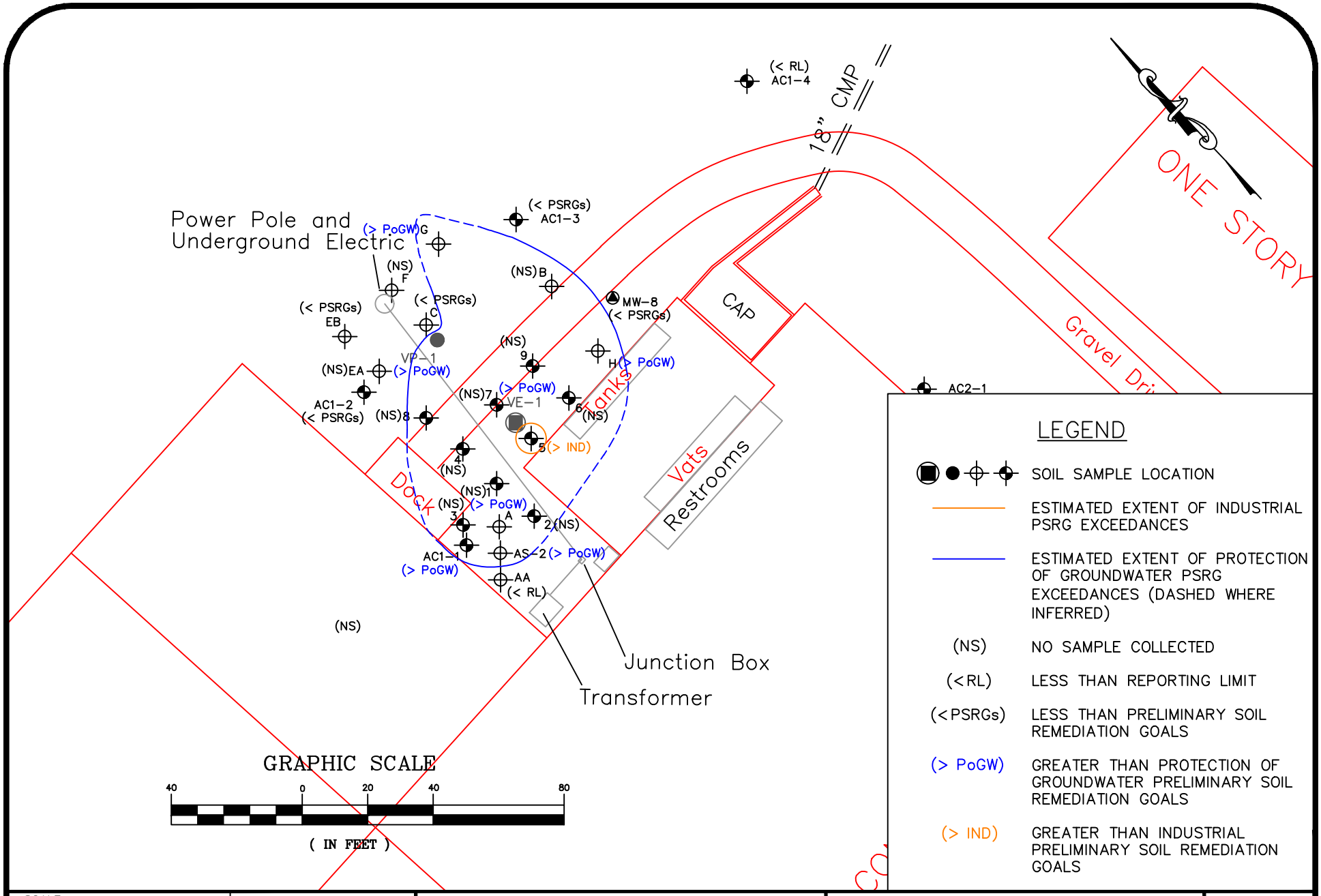
SITE PLAN

PETTY MACHINE COMPANY
GASTONIA, NORTH CAROLINA

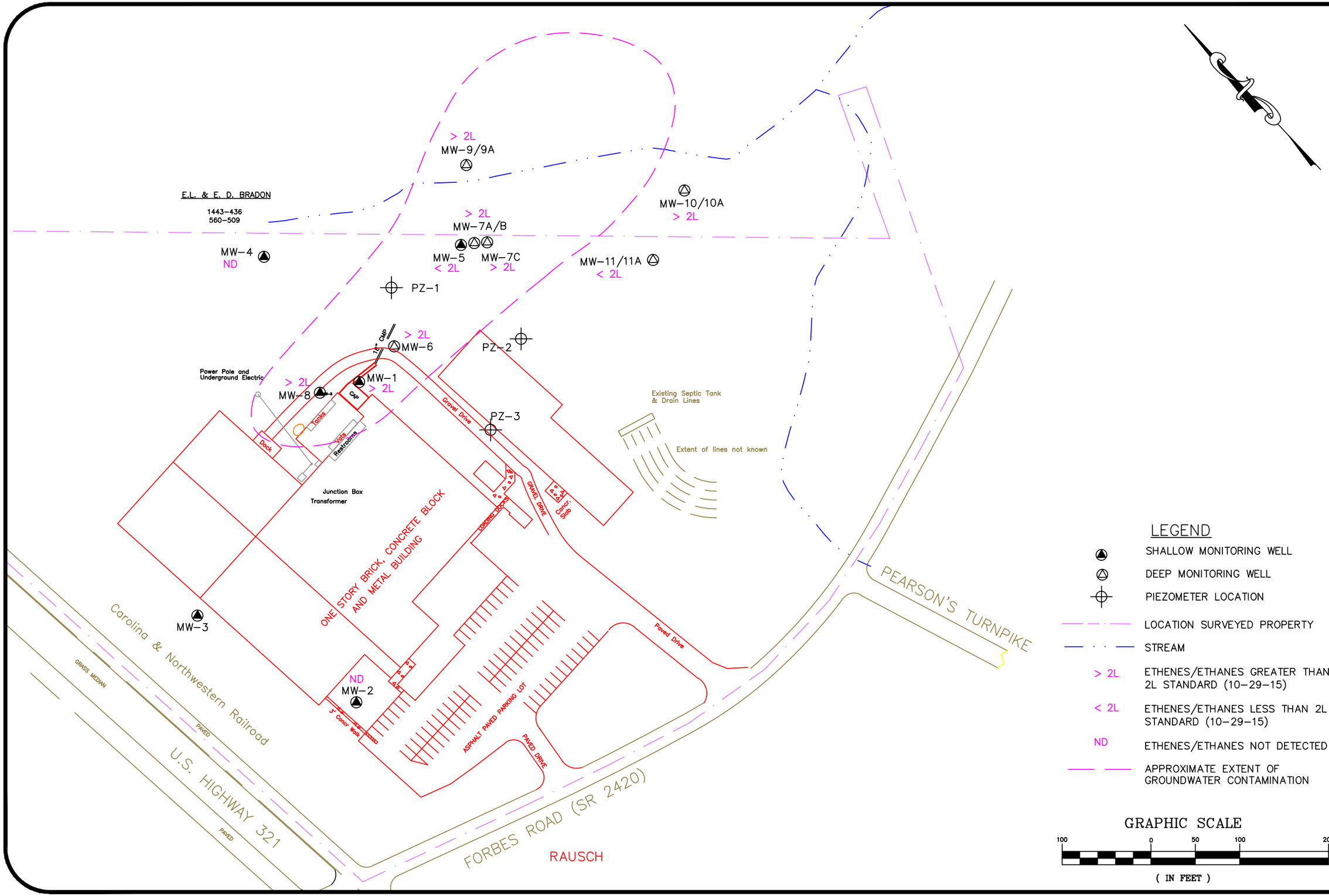
FIGURE NO.
3



SCALE: AS SHOWN	DATE: 02-15-16	S&ME WWW.SMEINC.COM	SOIL BORING AND INDOOR AIR SAMPLE LOCATION MAP PETTY MACHINE COMPANY GASTONIA, NORTH CAROLINA	FIGURE NO. 4
PROJECT NO. 4335-15-109	DRAWN BY: WAQ			
	CHECKED BY:			



SCALE: AS SHOWN	DATE: 04-11-16	S&ME WWW.SMEINC.COM	AOC 1 EXTENT OF SOIL CONTAMINATION MAP	FIGURE NO.
PROJECT NO. 4335-15-109	DRAWN BY: MSY		PETTY MACHINE COMPANY GASTONIA, NORTH CAROLINA	5
	CHECKED BY:			



DATE: 05-18-16
DRAWN BY: MSY
CHECKED BY:
SCALE: AS SHOWN
PROJECT NO. 4335-15-109

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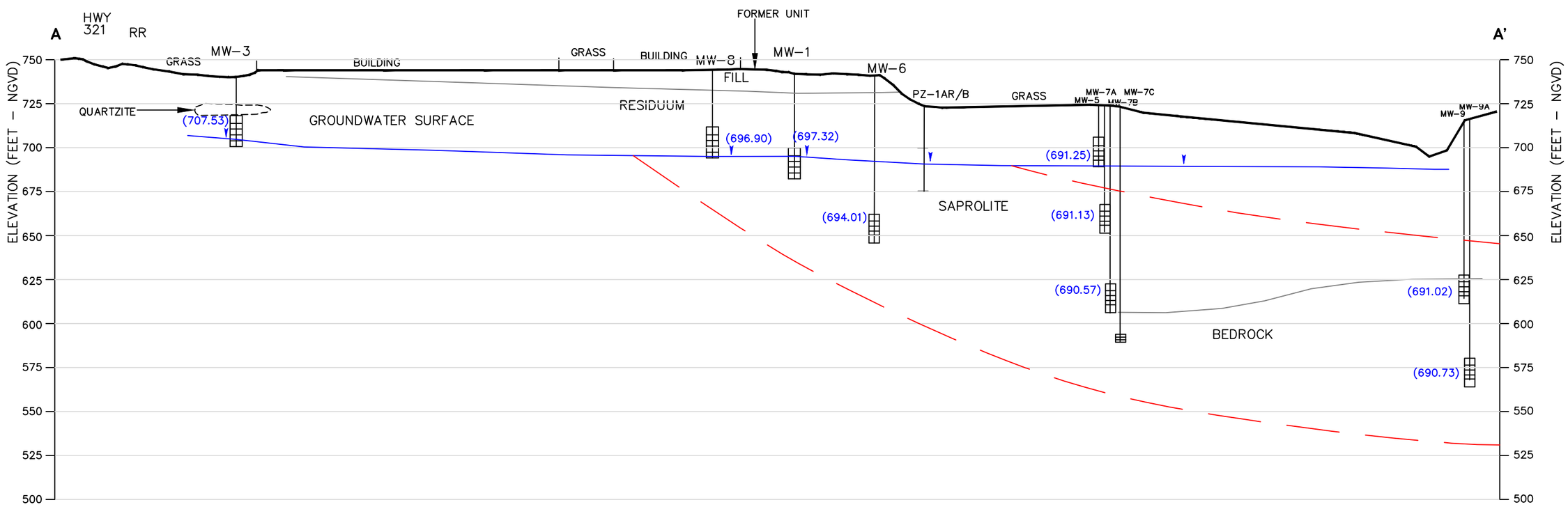
HORIZONTAL GROUNDWATER CONTAMINATION MAP
PETTY MACHINE COMPANY
GASTONIA, NORTH CAROLINA

FIGURE NO.
6



LEGEND

MW-1	MONITORING WELL
PZ-1AR/B	PIEZOMETER
	BENTONITE SEAL
	SCREEN INTERVAL
	BASE OF BORING
SB-D	SOIL BORING
	GROUNDWATER SURFACE (10/29/2015)
	APPROXIMATE EXTENT OF GROUNDWATER CONTAMINATION

GRAPHIC SCALE

60 0 30 60 120

(IN FEET)

DATE: 05-18-16
DRAWN BY: MSY
CHECKED BY:
SCALE: AS SHOWN
PROJECT NO. 4335-15-109

S&ME
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VERTICAL GROUNDWATER CONTAMINATION MAP
PETTY MACHINE COMPANY
GASTONIA, NORTH CAROLINA

FIGURE NO.
7

Appendix II – Additional Tables

Table II-1. Summary of Soil Analytical Results

Table II-2. Summary of Recent Groundwater Analytical Results

Table II-3. Summary of Indoor Air Sampling Results

Table 1
Summary of Soil Analytical Results
Petty Machine Company, Inc. (NCD 991 278 805)
2403 Forbes Road, Gastonia, North Carolina
S&ME Project No. 4335-15-109

Area of Interest	Sample ID	Sample Date	Sample Depth (ft)	Metals by EPA Methods 6010C, 7196A, and 7471B							Volatile Organic Compounds by EPA Method 8260B					
				Barium	Chromium (Total)	Trivalent Chromium	Hexavalent Chromium	Lead	Nickel	Mercury	1,1-Dichloro-ethane	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	1,4-Dioxane	Trichloro-ethene	Vinyl Chloride
AOC 1	SL-AC1-1	01/11/16	10.0 - 15.0	---	**19**	**19**	<1.1/<0.59	---	---	---	**0.0030**	**0.0092**	**0.10**	**0.22**	**0.033**	**0.0022 J**
		01/11/16	35.0 - 40.0	---	**7.2**	**7.2**	<0.41/<0.23	---	---	---	**0.00081 J**	**0.0053**	**0.016**	< 0.11	**0.011**	< 0.011
	SL-AC1-2	01/11/16	15.0 - 20.0	---	---	---	---	---	---	---	< 0.0023	< 0.0047	**0.0025**	< 0.12	< 0.0023	< 0.012
		01/11/16	35.0 - 38.0	---	---	---	---	---	---	---	< 0.0023	**0.0024 J**	**0.015**	< 0.12	**0.0018 J**	< 0.012
	SL-AC1-3	01/07/16	19.0 - 20.0	---	---	---	---	---	---	---	**0.0010 J**	**0.0022 J**	**0.035**	< 0.12	**0.0044**	< 0.012
		01/07/16	39.0 - 40.0	---	---	---	---	---	---	---	**0.0012 J**	**0.0013 J**	**0.057**	< 0.097	**0.0046**	< 0.0097
		01/07/16	39.0 - 40.0 (DUP)	---	---	---	---	---	---	---	< 0.0021	< 0.0042	**0.016**	< 0.11	**0.0011 J**	< 0.011
	SL-AC1-4	01/07/16	19.0 - 20.0	---	---	---	---	---	---	---	< 0.0020	< 0.0040	< 0.0020	< 0.10	< 0.0020	< 0.010
		01/07/16	34.0 - 35.0	---	---	---	---	---	---	---	< 0.0022	< 0.0043	< 0.0022	< 0.11	< 0.0022	< 0.011
AOC 2	SL-AC2-1	01/11/16	0.0 - 0.5	---	**34**	**33.29**	**0.71**	---	---	---	---	---	---	---	---	---
		01/11/16	0.0 - 0.5 (DUP)	---	**35**	**34.04**	**0.96**	---	---	---	---	---	---	---	---	---
		01/11/16	4.5 - 5.0	---	**14**	**14**	<1.0/<0.55	---	---	---	---	---	---	---	---	---
	SL-AC2-2	01/07/16	0.0 - 1.0	---	**16**	**16**	<1.1/<0.58	---	---	---	---	---	---	---	---	---
		01/07/16	9.0 - 10.0	---	**17**	**17**	<1.0/<0.56	---	---	---	---	---	---	---	---	---
	SL-AC2-3	01/07/16	0.0 - 1.0	---	**13**	**12.36**	**0.64 J**	---	---	---	---	---	---	---	---	---
		01/07/16	9.0 - 10.0	---	**26**	**26**	<0.93/<0.51	---	---	---	---	---	---	---	---	---
	SL-AC2-4	01/07/16	0.0 - 1.0	---	**28**	**28**	<0.40/<0.22	---	---	---	---	---	---	---	---	---
		01/07/16	9.0 - 10.0	---	**30**	**30**	<0.37/<0.20	---	---	---	---	---	---	---	---	---
SWMU 1	SL-SM1-1	01/12/16	0.0 - 1.0	**130**	**25**	**25**	<0.99/<0.54	**13**	**9.9**	**0.043**	---	---	---	---	---	---
		01/12/16	0.0 - 1.0 (DUP)	**110**	**23**	**23**	<0.96/<0.53	**15**	**9.1**	**0.042**	---	---	---	---	---	---
		01/12/16	9.0 - 10.0	**70**	**18**	**18**	<0.99/<0.54	**15**	**5.1**	**0.062**	---	---	---	---	---	---
	SL-SM1-2	01/12/16	0.0 - 1.0	**120**	**17**	**17**	<1.0/<0.57	**12**	**6.2**	**0.025 J**	---	---	---	---	---	---
		01/12/16	9.0 - 10.0	**80**	**27**	**24.3**	**2.7**	**14**	**6.3**	**0.075**	---	---	---	---	---	---
			Residential PSRG	3,000	NA	24,000	0.3	400	300	1.9	3.6	46	32	5.3	0.82	0.059
			Industrial PSRG	44,000	NA	100,000	6.3	800	4,400	3.1	16	200	460	24	3.8	1.7
			Protection of Groundwater PSRG	580	NA	360,000	3.8	270	130	1.0	0.03	2.3	0.36	0.012	0.018	0.00019

NOTES:

All results presented in milligrams per kilogram or mg/kg
Compounds not listed were not detected above laboratory detection limits.
< Value : Less than Reporting Limit(/Less than Detection Limit for Hexavalent Chromium). --- : Not Analyzed
J : Concentration estimated between Reporting Limit and Detection Limit
PSRG : Preliminary Site Remediation Goal
IHSB : North Carolina Department of Environmental Quality Inactive Hazardous Sites Branch

VALUE Concentration exceeds the Residential PSRG
VALUE Concentration exceeds the Protection of Groundwater PSRG

NA : Not Applicable
MSWLF : Municipal Solid Waste Landfill
Trivalent Chromium calculated as the difference between the Total and Hexavalent Chromium.

Table 2
Summary of Recent Groundwater Analytical Results
Petty Machine Company, Inc. (NCD 991 278 805)
2403 Forbes Road, Gastonia, North Carolina
S&ME Project 4335-15-109

METHOD / PARAMETER	UNITS	MW-1 10/29/15	MW-2 10/29/15	MW-4 10/29/15	MW-5 10/29/15	MW-6 10/29/15	MW-7A 10/29/15	MW-7B 10/29/15	MW-7C 1/27/16	MW-7C (DUP) 1/27/16	MW-8 10/29/15	MW-9 10/29/15	MW-9A 10/29/15	MW-10 10/29/15	MW-10A 10/29/15	MW-11 10/29/15	MW-11 (FD-1) 10/29/15	MW-11A 10/29/15	2L Standard
EPA METHOD 8260B																			
Acetone	µg/L	**63**	**48**	**36**	**54**	**53**	**39 J**	**46**	<49	<49	<31	**47**	**60**	**50**	**62**	**62**	**58**	**49**	6,000
2-Butanone (MEK)	µg/L	<0.24	<0.24	<0.24	<0.24	<2.4	<2.4	<0.24	<24	<24	<24	<0.24	<0.24	<0.24	<0.24	**1.0 J**	<0.24	<0.24	4,000
n-Butylbenzene	µg/L	<0.076	<0.076	**0.82 J**	<0.076	<0.76	<0.76	<0.076	<1.5	<1.5	<7.6	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076	70
Chloroform	µg/L	**1.2**	<0.076	<0.076	<0.076	<0.76	<0.76	<0.076	<2.2	<2.2	<7.6	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076	**0.57**	70
Chromium-Total	µg/L	NA	NA	**120**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**38**	**37**	NA	10
1,1-Dichloroethane	µg/L	**350**	<0.083	<0.083	<0.083	**24**	**72**	**22**	**36**	**36**	**2,700**	**5.8**	**1.8**	<0.083	<0.083	<0.083	<0.083	<0.083	6
1,2-Dichloroethane	µg/L	**2.5**	<0.066	<0.066	<0.066	<0.66	<0.66	**0.51**	<1.9	<1.9	**82**	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	0.4
1,1-Dichloroethene	µg/L	**6,100**	<0.083	<0.083	**0.54**	**2,900**	**1,800**	**410**	**840**	**840**	**21,000**	**120**	**23**	**0.60**	<0.083	**0.56**	<0.083	**0.52**	7
cis-1,2-Dichloroethene	µg/L	**120**	<0.056	<0.056	<0.056	**5.5**	**1,900**	**400**	**480**	**490**	**45,000**	**81**	**24**	<0.056	<0.056	<0.056	<0.056	<0.056	70
trans-1,2-Dichloroethene	µg/L	**1.7**	<0.094	<0.094	<0.094	<0.94	**5.5**	**2.1**	<1.5	<1.5	**91**	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	100
1,2-Dichloropropane	µg/L	<0.11	<0.11	<0.11	<0.11	<1.1	<1.1	<0.11	<1.3	<1.3	<11	<0.11	<0.11	**7.9**	**5.4**	**19**	**19**	**19**	0.6
4-Isopropyltoluene	µg/L	<0.089	<0.089	**0.72**	<0.089	<0.89	<0.89	<0.089	<1.5	<1.5	<8.9	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	25
1,1,1-Trichloroethane	µg/L	**800**	<0.061	<0.061	<0.061	**20**	**30**	**7.7**	**12**	**13**	**1,800**	**2.5**	**0.95**	<0.061	<0.061	<0.061	<0.061	<0.061	200
1,1,2-Trichloroethane	µg/L	<0.066	<0.066	<0.066	<0.066	<0.66	<0.66	<0.066	<1.2	<1.2	**59**	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	0.6
Trichloroethene	µg/L	**150**	<0.078	<0.078	<0.078	**5.9**	**1,400**	**290**	**310**	**320**	**22,000**	**83**	**39**	**0.90**	<0.078	**0.60**	<0.078	**0.54**	3
Tetrachloroethene	µg/L	**1.4**	<0.098	<0.098	<0.098	<0.98	<0.98	<0.098	<1.7	<1.7	<9.8	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	0.7
OTHER																			
pH (Field)	standard	4.02	6.60	4.13	4.29	4.23	4.55	4.75	6.61	NA	4.42	5.19	5.14	5.08	5.84	6.23	NA	4.97	6.5-8.5
Turbidity	appearance	CLR	CLR	CLR	CLR	CLR	CLR	CLR	CLR	NA	CLR	CLR	CLR	CLR	CLR	CLR	NA	CLR	NL
Specific Conductance	µmhos/cm	15.00	19.00	13.00	11.00	17.00	9.00	6.00	115.00	NA	24.00	5.00	3.00	4.00	2.00	2.00	NA	6.00	NL
Temperature	Celcius	18.70	19.30	18.50	16.50	17.40	16.40	16.70	16.42	NA	18.90	17.20	17.30	17.20	17.40	17.60	NA	17.20	NL

NOTES:
µg/L : micrograms per liter
Contaminants not listed were not detected above laboratory reporting limits.
Highlighted values exceed the 15A NCAC 2L .0202 groundwater quality standards
NA : Not Analyzed CLR: Clear
NL : Not Listed - No Standard
NM : Not Measured

Table 3
Summary of Indoor Air Analytical Results
Petty Machine Company, Inc. (NCD 991 278 805)
2403 Forbes Road, Gastonia, North Carolina
S&ME Project 4335-15-109

Analytical Method		VOCs (TO-15)							
Sample ID	Sample Date	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride
IA-VI-1	01/27/16	**0.36**	**0.12 J**	**11**	**0.78**	**4.8**	< 0.19	**2.2**	< 0.090
IA-VI-DUP (IA-VI-1)	01/27/16	**0.33**	**0.11 J**	**11**	**0.44**	**4.6**	< 0.19	**2.1**	< 0.090
IA-VI-2	01/27/16	**0.76**	< 0.40	**10.0**	**1.2**	**7.6**	< 0.55	**1.9**	< 0.26
IA-VI-3	01/27/16	**0.35 J**	< 0.40	**15**	**3.3**	**4.2**	< 0.55	**1.4**	< 0.26
IA-VI-BG	01/27/16	< 0.14	< 0.14	< 0.14	< 0.24	< 0.19	< 0.19	< 0.19	< 0.090
NON-RESIDENTIAL IASL (1.0E-6 & THQ = 0.2)		**7.67**	**0.472**	**175**	**35**	**4,380**	**0.175**	**1.75**	**2.79**
NON-RESIDENTIAL IASL (1.0E-5 & THQ = 0.2)		**76.7**	**4.72**	**175**	**35**	**4,380**	**0.175**	**1.75**	**27.9**
ACGIH TLV-TWA		400,000	40,500	19,800	169,500	1,910,000	54,500	53,700	2,560

NOTES:

All results expressed in micrograms per cubic meter ($\mu g/m^3$)

Only constituents detected are shown

IASL = Indoor Air and Crawlspace Screening Levels (Division of Waste Management Residential Vapor Intrusion Screening Levels, September 2015)

ACGIH TLV-TWA : American Conference of Governmental Industrial Hygienists, Threshold Limit Value - Time Weighted Average, 2014

VALUE	exceeds laboratory detection limit
VALUE	Values in bold and shaded exceeds the Non-Residential SGSLs

* = Indicates that the laboratory detection limit was above the Residential SGSLs and/or Non- Residential SGSLs

J = Result is less than the reporting limit and greater than or equal to the method detection limit and the concentration is an approximate value.

Appendix III – Former Metal Plating Building Cleaning

Date: 8/20/2015

Photographer: Frank Hovis, PMC

1	**Location / Orientation**	Former Metal Plating Building
	Remarks	East Wall

Date: 8/20/2015

Photographer: Frank Hovis, PMC

2	**Location / Orientation**	Former Metal Plating Building
	Remarks	West Wall

Date: 8/20/2015

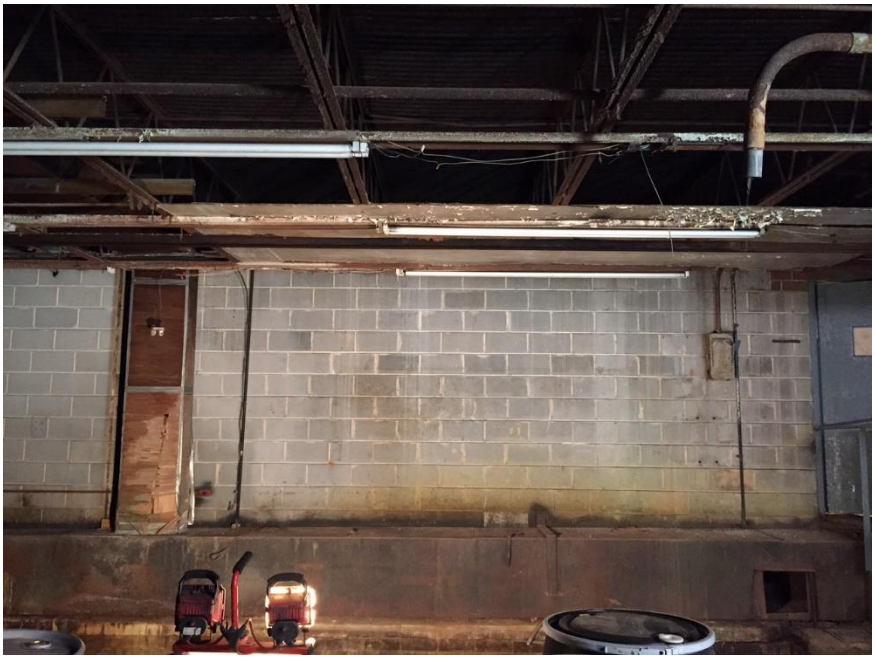
Photographer: Frank Hovis, PMC

3	**Location / Orientation**	Former Metal Plating Building
	Remarks	North Wall (west side)

Date: 8/20/2015

Photographer: Frank Hovis, PMC

4	**Location / Orientation**	Former Metal Plating Building
	Remarks	North Wall (east side)



Date: 8/20/2015

Photographer: Frank Hovis, PMC

5	**Location / Orientation**	Former Metal Plating Building
	Remarks	South Wall (west side)

Date: 8/20/2015

Photographer: Frank Hovis, PMC

6	**Location / Orientation**	Former Metal Plating Building
	Remarks	South Wall (east side)

WEEKLY HAZ-WASTE INSPECTIONS	DATE:	DATE:	DATE:	DATE:	DATE:
TIME: 2:00 PM	10/28/15				
INSPECTOR: J. Rogers					
CONTAINERS LABELED:	yes				
CONTAINERS DATED:	yes				
CONTAINERS CLOSED:	yes				
SPILLS ON OUTSIDE OF CONTAINERS:	None				
PROPER ISLE SPACE:	yes				
EMERGENCY EQUIPMENT :	yes				
CONTAINER LEAKS / CORROSION EVIDENT:	None				
NUMBER OF CONTAINERS:	8				
NOTES:	Drums that were Tested				

S1 - Tank side Floor Sweeps

S2 - " " " "

S3 Pit Side Floor Sweeps

S4 " " " "

S5 " " " "

EN1 Electroless Nichol

N1 Nitric Acid

N2 Nitric Acid

SPECTRA ENVIRONMENTAL GROUP INC
TNR000005439 - UOP051038002
P O BOX 5898
MARYVILLE, TN 37802-5898
USA
Voice: 865-970-0005
Fax: 865-970-2074

SALES ORDER PICKING LIST

Sales Order Number: W60600
Sales Order Date: Nov 19, 2015
Ship By: Nov 19, 2015
Page: 1

To:	Ship To:
U.S. WASTE ACCT PAY P O BOX 2326 WALTERBORO, SC 29488	LARRY PETTY 704-864-3254 PETTY MACHINE CO 2403 FORBES ROAD GASTONIA, NC 28056

Customer ID	PO Number	Sales Rep Name
XX3166		UNASSIGNED
Customer Contact	**Shipping Method**	**Payment Terms**
ROGER L. MERCER	SPECTRA	Net 30 Days

Quantity	Item	Description	Shipped Prior	This Shipment
8.00	TRANS	LTL - SITE PICKUP SERVICE FOR DRUMS GOING TO EWS/AL - 64479		
2.00	TRANS	LTL - SITE PICKUP SERVICE FOR CYBS GOING TO EQ-DETROIT (DROP AT ABM/SC) - 64479		
	TRANS	SHIPPER - TIME IN 0700 TIME OUT _____ Charge demurrage if over one hour loading - Notify USW of Pickup_____ Shipper agrees to be responsible for any cost if load does not meet EPA & DOT requirements ROGER- 800-669-9552- CELL 843-909-6513 - CALLED TO SCHEDULE ON 24 Nov 2015 Approved _____ Rec'd by: _____ Manifest Tracking # 08926689 JK 08926687 JK		

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NCD981278835
2. Page 1 of 1
3. Emergency Response Phone: 704-864-3254
4. Manifest Tracking Number: 009266891 JJK

5. Generator's Name and Mailing Address
PETTY MACHINE COMPANY
2403 FORBES ROAD
GASTONIA, NC 28056
Generator's Phone: 704-864-3254

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Spectra Environmental
U.S. EPA ID Number: NVR000005437

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
EWS ALABAMA
402 WEBSTER CHAPEL ROAD
GLENCOE, AL 35905
Facility's Phone: 256-492-8340
U.S. EPA ID Number: ALD981020884

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
x	1. RQ,UN3264,WASTE CORROSIVE LIQUID,ACIDIC,INORGANIC,N.O.S. (NITRIC ACID),8,PGIII,ERG-154 #118054	2	DM	110	G	D002 D004 D006 D007 D008
x	2. RQ,NA3082,HAZARDOUS WASTE LIQUID,N.O.S.(NICKEL SULFATE/CHROMIUM),9,PGIII,ERG-171 #118055	1	DM	55	G	D007
x	3. RQ,NA3077,HAZARDOUS WASTE SOLID,N.O.S. (CHROME),9,PGIII,ERG-171 #118056	3	DM	265	G	D007
	4. NH FLOOR SWEEPINGS NON HAZARDOUS/NON REGULATED # 118057	2	DM		P	

14. Special Handling Instructions and Additional Information
NEEDS CD SENT TO US WASTE 24 HR EMERGENCY CONTACT LARRY PETTY 704-864-3254 TO111325

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Larry L. Petty
Signature:
Month / Day / Year

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: James B. Lewis
Signature:
Month / Day / Year: 11/24/15
Transporter 2 Printed/Typed Name
Signature
Month / Day / Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month / Day / Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month / Day / Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NCR991278805
2. Page 1 of 2
3. Emergency Response Phone: 704-864-3254
4. Manifest Tracking Number: 009266892 JJK

5. Generator's Name and Mailing Address
PETTY MACHINE COMPANY
2403 FORBES ROAD
GASTONIA, NC 28056
Generator's Phone: 704-864-3254

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Spectra Environmental — U.S. EPA ID Number: TNR000005436

7. Transporter 2 Company Name: Freehold Cartage, INC — U.S. EPA ID Number: NJD054126164

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL WASTE TREATMENT PLANT
49350 NORTH I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: 800-592-5489

U.S. EPA ID Number: MID000724831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,UN3077,HAZARDOUS WASTE SOLID,N.O.S.(CHROME TANK DEBRIS),9,PGIII,ERG-171 #K151039IMDI	2	CF	1000	P	D007		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
NEEDS CD SENT TO US WASTE 24 HR EMERGENCY CONTACT LARRY PETTY 704-864-3254 TO111223

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Larry K. Petty — Signature: [signature] — Month 11 Day 23 Year 15

GENERATOR

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

INT'L

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: James B. Lewis — Signature: [signature] — Month 11 Day 24 Year 15
Transporter 2 Printed/Typed Name: VIC JANZE — Signature: [signature] — Month 12 Day 1 Year 15

TRANSPORTER

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H110 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a
Printed/Typed Name: Holt Schock — Signature: [signature] — Month 12 Day 24 Year 15

DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

US ecology

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 009266892JJK

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME:
(Please check one)

☑ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

Appendix IV – Borings Logs and Well Construction Record

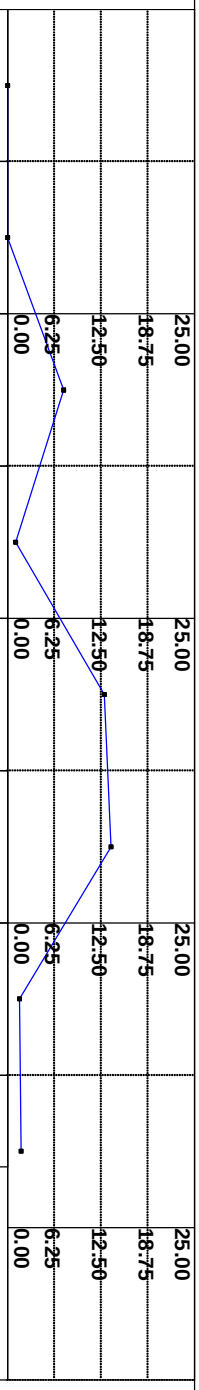
LOG OF SOIL BORING AC1-1

S&ME

9751 Southern Pine Blvd.
Charlotte, North Carolina

PROJECT NAME:	Petty Machine Company	**LOGGED BY:**	S. Young
DATE DRILLED:	1/11/16	**DRILLER:**	EDPS, Inc.
DRILLING METHOD:	Geoprobe	**LATITUDE:**	NA
ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Soil Description	PID (ppm)
0		**Sandy SILT: Brownish Dark Red**	0.0
5		**Silty CLAY: Brownish Dark Red; tight, with mica fragments**	0.0
		Silty CLAY: Grayish Brown	7.5
10		**Silty CLAY: Reddish Brown; tight, with mica fragments**	
15		**Silty CLAY: Reddish Brown and Tan; tight, with mica fragments**	
		Sandy CLAY: Light Brown; with quartz and mica fragments	1.1
20		**Sandy SILT: Tan to White; with quartz, mica, dark mineral, and feldspar fragments**	12.9
25			13.8
30		**Sandy CLAY: Light Brown; with quartz, mica, and dark mineral fragments**	1.6
35			1.8
40		**Clayey SAND: Orangish Brownl; with quartz and dark mineral fragments, damp**	
		Clayey SAND: Brown; with quartz and dark mineral fragments, wet	
45			



NOTES:

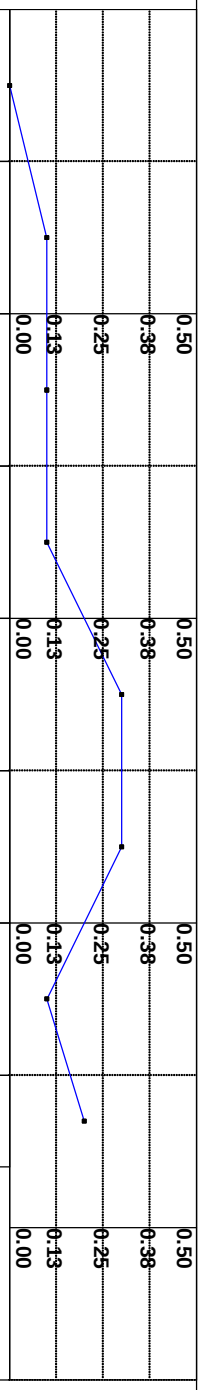
LOG OF SOIL BORING AC1-2

S&ME

9751 Southern Pine Blvd.
Charlotte, North Carolina

PROJECT NAME:	Petty Machine Company	**LOGGED BY:**	S. Young
DATE DRILLED:	1/11/16	**DRILLER:**	EDPS, Inc.
DRILLING METHOD:	Geoprobe	**LATITUDE:**	NA
ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Soil Description	PID (ppm)
0		**Silty CLAY: Reddish Brown; with mica fragments**	0.0
5		**Sandy SILT: Reddish Brown to Brown**	
		Silty CLAY: Reddish Brown; with mica fragments	0.1
		Silty CLAY: Grayish Brown; damp	
10		**CLAY: Reddish Brown; tight, dry**	0.1
		Silty CLAY: Orangish Red; tight	
15		**Silty CLAY: Orangish Tan**	0.1
		Clayey SILT: Orangish Tan	
20			0.3
25			0.3
		damp	
30			0.1
		Clayey SILT: Dark Brown, damp, layer of ~1/8" quartz fragments at 34'	
35		**Clayey SILT: Orangish Tan; damp**	0.2
		Silty SAND: Light Brown; wet	
40			
45			



NOTES:

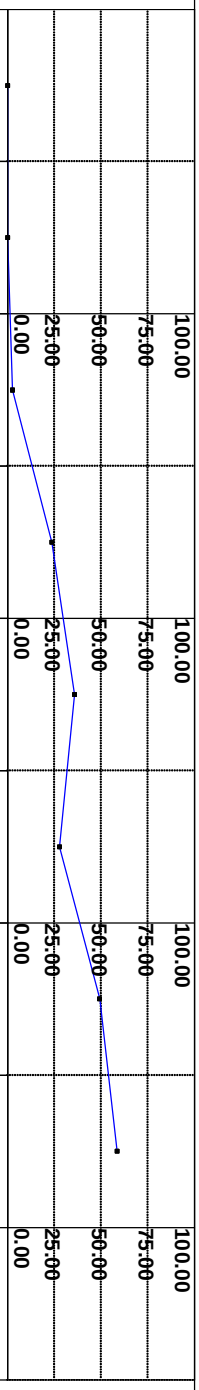
LOG OF SOIL BORING AC1-3

S&ME

9751 Southern Pine Blvd.
Charlotte, North Carolina

PROJECT NAME:	Petty Machine Company	**LOGGED BY:**	B. Wilson
DATE DRILLED:	1/7/16	**DRILLER:**	EDPS, Inc.
DRILLING METHOD:	Geoprobe	**LATITUDE:**	NA
ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Soil Description	PID (ppm)
0 / 0		**Silty SAND: Reddish Brown; fine to medium grained sand, with some clay**	0.0
5 / -5		**Sandy SILT: Brownish Red; with slight clay, micaceous**	0.1
10 / -10			2.7
15 / -15		**Clayey SILT: Brownish Red; with some sand**	23.6
20 / -20		**Sandy SILT: Brownish Red; with slight clay**	35.8
25 / -25		**Sandy SILT: Whitish Tan**	27.7
30 / -30		**Sandy SILT: Brownish Tan**	49.2
35 / -35		**Silty SAND: Tannish White; fine to medium grained sand**	58.6
40 / -40			
45 / -45			



NOTES:

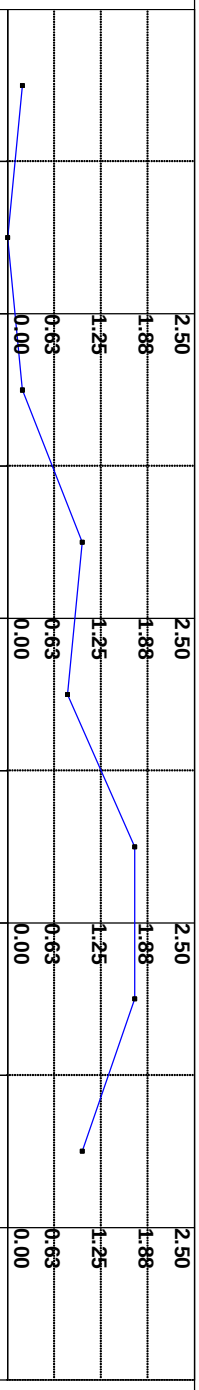
LOG OF SOIL BORING AC1-4

S&ME

9751 Southern Pine Blvd.
Charlotte, North Carolina

PROJECT NAME:	Petty Machine Company	**LOGGED BY:**	B. Wilson
DATE DRILLED:	1/7/16	**DRILLER:**	EDPS, Inc.
DRILLING METHOD:	Geoprobe	**LATITUDE:**	NA
ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Soil Description	PID (ppm)
0		**Sandy SILT: Brownish Red; with slight clay, micaceous**	0.2
		Sandy SILT: Tannish Brown; micaceous	
5 / -5		**Sandy SILT: Brownish Red; with slight clay, micaceous**	0.0
10 / -10		**Sandy SILT: Tannish Brown; micaceous**	
		Sandy SILT: Brownish Red; with slight clay, micaceous	0.2
15 / -15		**perched water from 15' to 20'**	1.0
20 / -20		**Sandy SILT: Tannish Red; with slight clay**	0.8
25 / -25			1.7
		Sandy SILT: Tannish Red	
30 / -30			1.7
		Sandy SILT: Reddish Brown	
35 / -35			1.0
40 / -40			
45 / -45			



NOTES:

LOG OF SOIL BORING AC2-1

S&ME
9751 Southern Pine Blvd.
Charlotte, North Carolina

PROJECT NAME:	Petty Machine Company	**LOGGED BY:**	S. Young
DATE DRILLED:	1/11/16	**DRILLER:**	EDPS, Inc.
DRILLING METHOD:	Hand Auger	**LATITUDE:**	NA
ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Soil Description	PID (ppm)
		SAND: Dark Gray; fine grained sand	0.0
		Silty CLAY: Orangish Red; with mica fragments	0.0

0 — 0
5 — -5
10 — -10
15 — -15
20 — -20
25 — -25
30 — -30
35 — -35
40 — -40
45 — -45

0.00 3.75 7.50 11.25 15.00
0.00 3.75 7.50 11.25 15.00
0.00 3.75 7.50 11.25 15.00
0.00 3.75 7.50 11.25 15.00

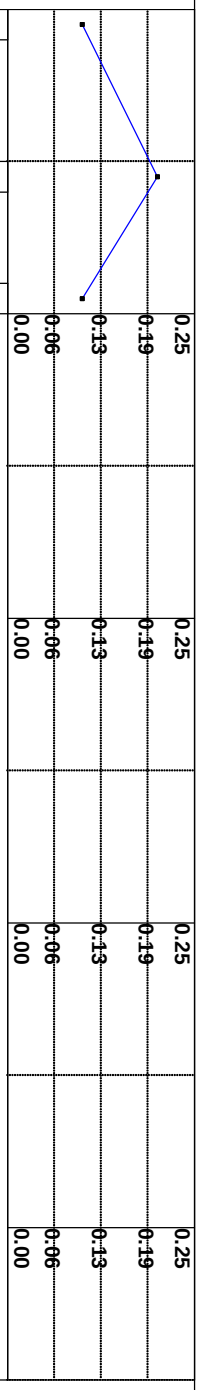
NOTES: Clear weather, sunny, 65°

LOG OF SOIL BORING AC2-2

S&ME
9751 Southern Pine Blvd.
Charlotte, North Carolina

PROJECT NAME:	Petty Machine Company	**LOGGED BY:**	B. Wilson
DATE DRILLED:	1/7/16	**DRILLER:**	EDPS, Inc.
DRILLING METHOD:	Geoprobe	**LATITUDE:**	NA
ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Soil Description	PID (ppm)
0		**Sandy SILT: Brownish Red; with slight clay, micaceous**	0.1
5			0.2
		Sandy SILT: Reddish Brown; micaceous	0.1
10			
15			
20			
25			
30			
35			
40			
45			



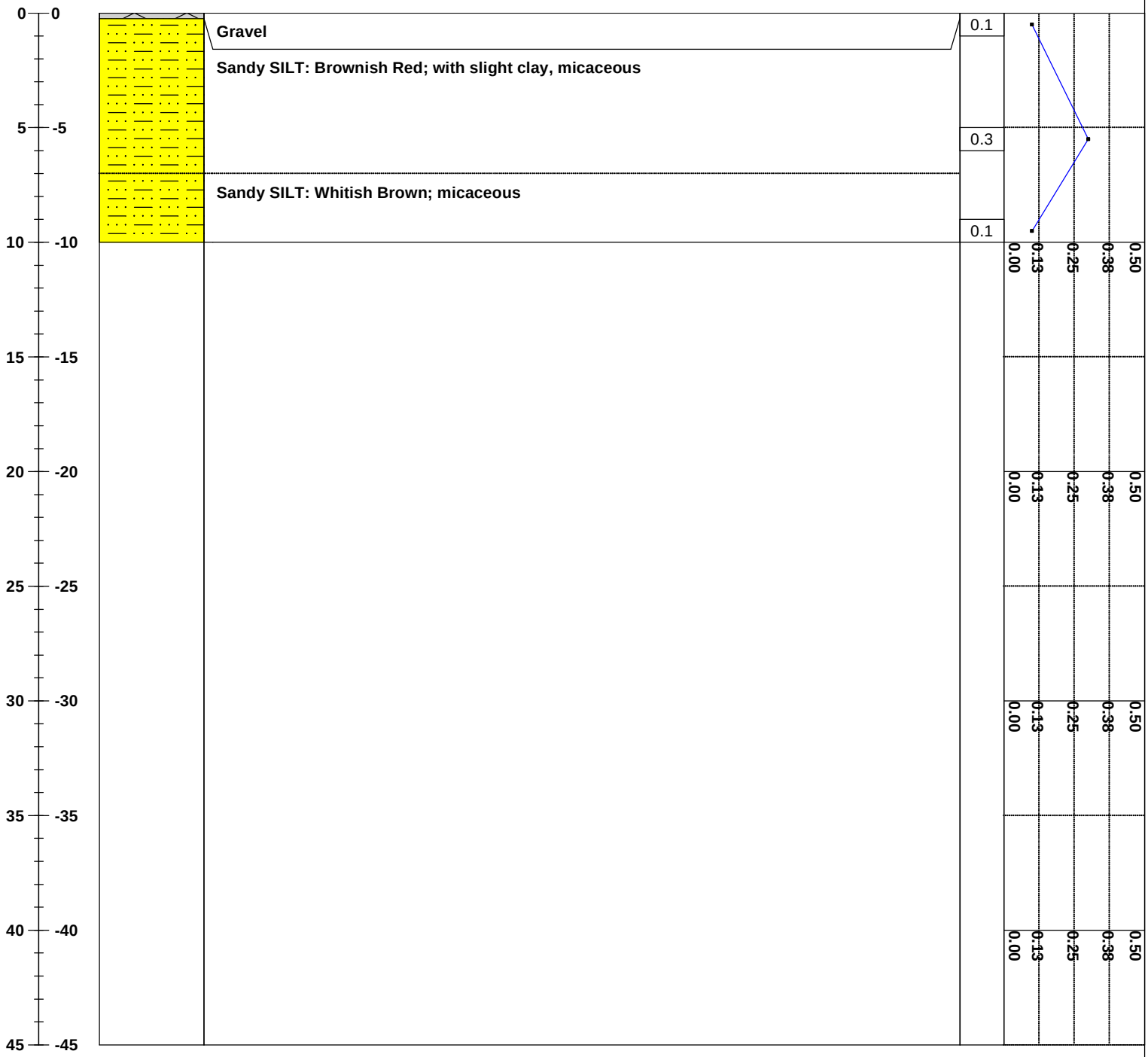
NOTES:

LOG OF SOIL BORING AC2-3

S&ME
9751 Southern Pine Blvd.
Charlotte, North Carolina

PROJECT NAME:	Petty Machine Company	**LOGGED BY:**	B. Wilson
DATE DRILLED:	1/7/16	**DRILLER:**	EDPS, Inc.
DRILLING METHOD:	Geoprobe	**LATITUDE:**	NA
ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Soil Description	PID (ppm)
0		**Gravel**	0.1
		Sandy SILT: Brownish Red; with slight clay, micaceous	0.3
		Sandy SILT: Whitish Brown; micaceous	0.1



NOTES:

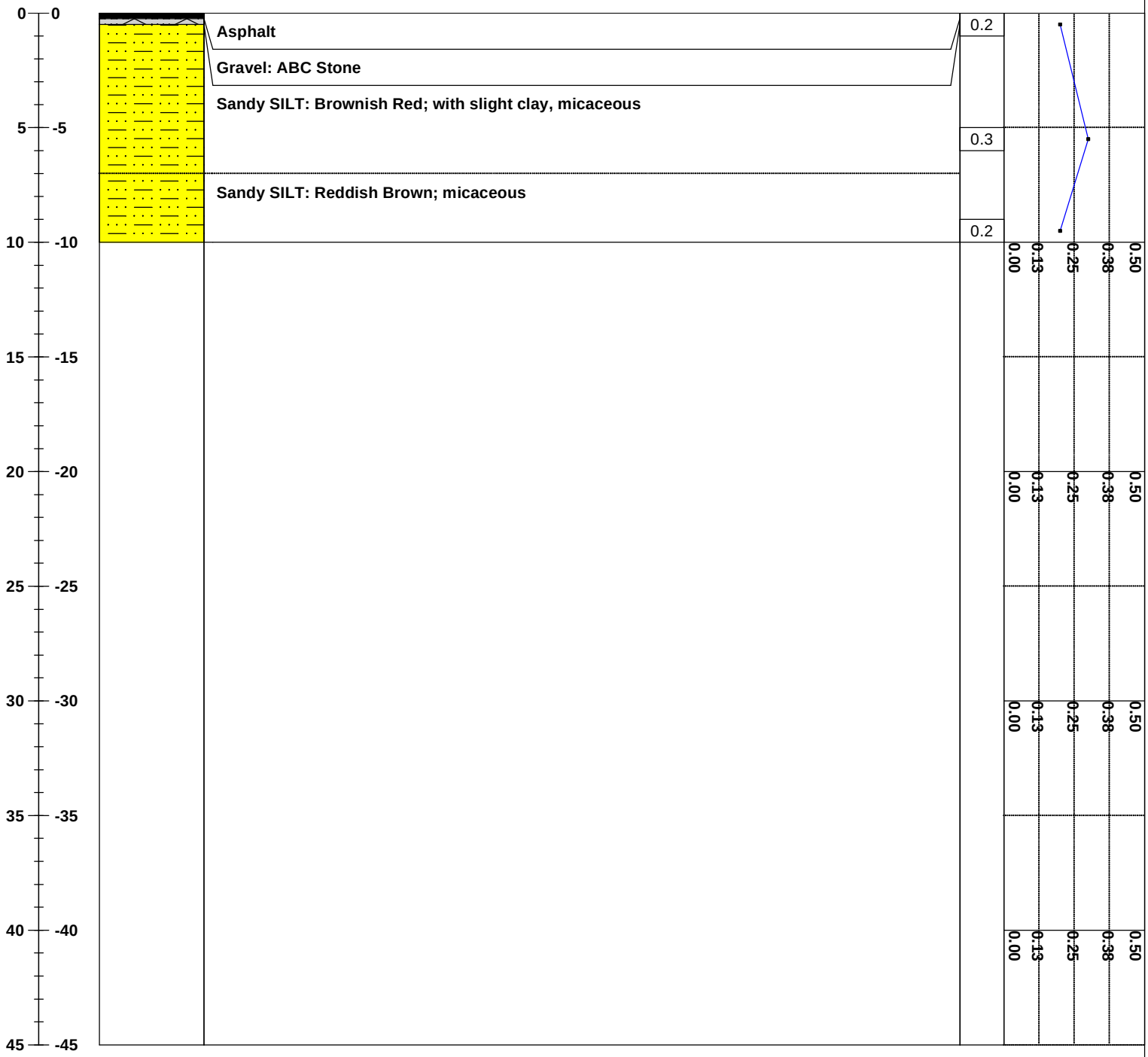
LOG OF SOIL BORING AC2-4

S&ME

9751 Southern Pine Blvd.
Charlotte, North Carolina

PROJECT NAME:	Petty Machine Company	**LOGGED BY:**	B. Wilson
DATE DRILLED:	1/7/16	**DRILLER:**	EDPS, Inc.
DRILLING METHOD:	Geoprobe	**LATITUDE:**	NA
ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Soil Description	PID (ppm)
0		**Asphalt**	0.2
		Gravel: ABC Stone	
		Sandy SILT: Brownish Red; with slight clay, micaceous	0.3
		Sandy SILT: Reddish Brown; micaceous	0.2



NOTES:

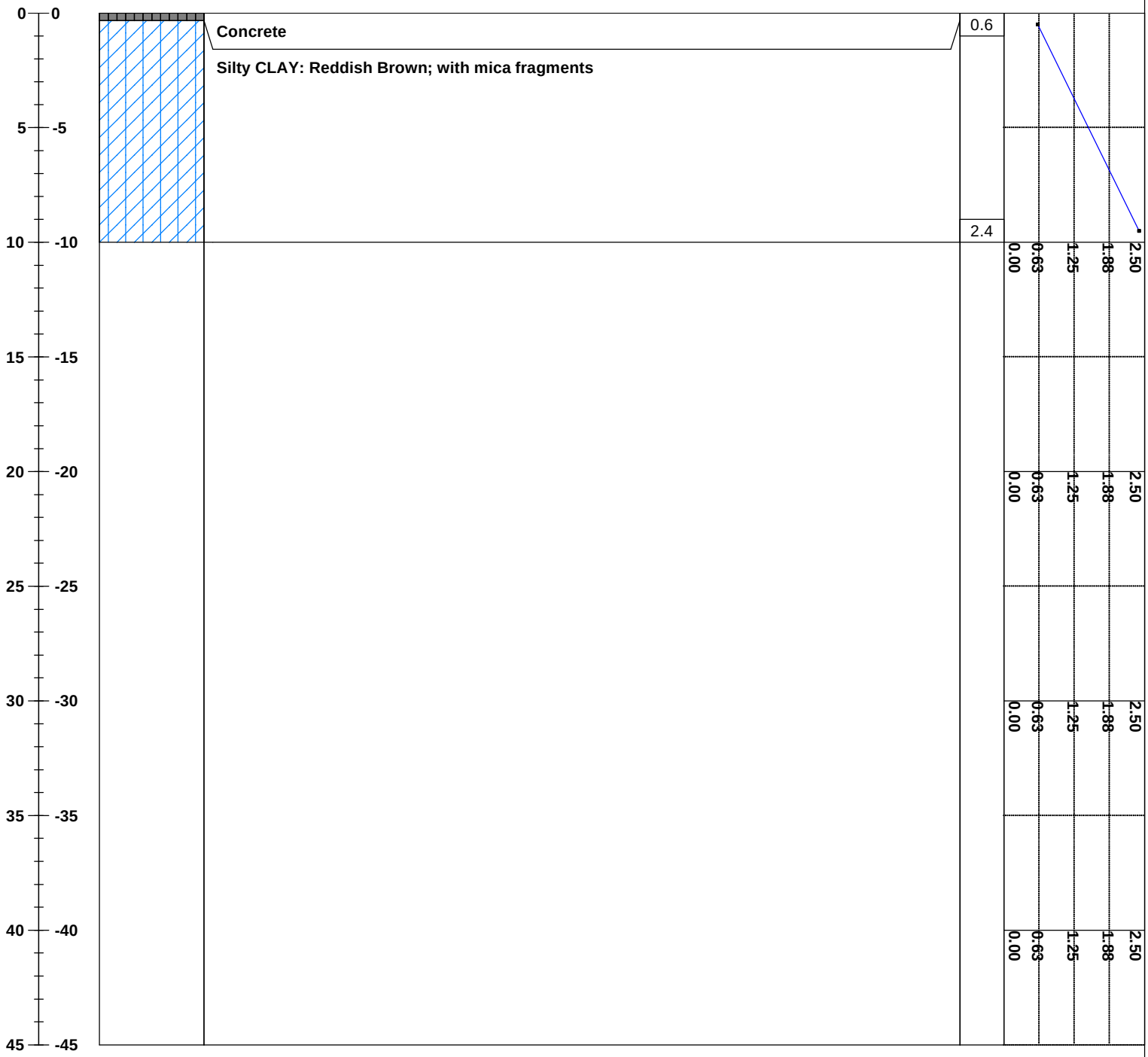
LOG OF SOIL BORING SM1-1

S&ME

9751 Southern Pine Blvd.
Charlotte, North Carolina

PROJECT NAME:	Petty Machine Company	**LOGGED BY:**	S. Young
DATE DRILLED:	1/12/16	**DRILLER:**	EDPS, Inc.
DRILLING METHOD:	Geoprobe	**LATITUDE:**	NA
ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Soil Description	PID (ppm)
0		**Concrete**	0.6
		Silty CLAY: Reddish Brown; with mica fragments	2.4



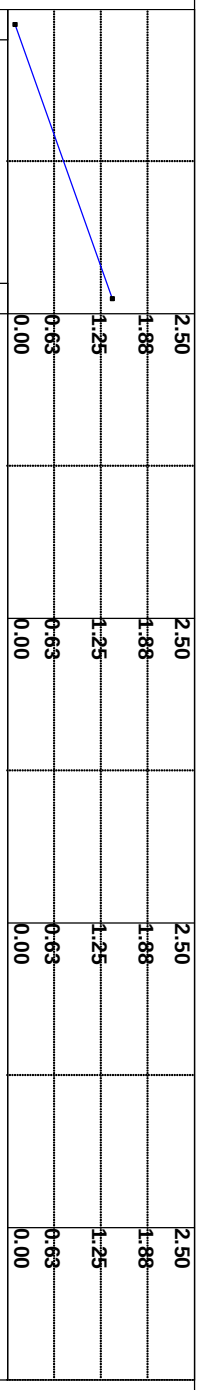
NOTES:

LOG OF SOIL BORING SM1-2

S&ME
9751 Southern Pine Blvd.
Charlotte, North Carolina

PROJECT NAME:	Petty Machine Company	**LOGGED BY:**	S. Young
DATE DRILLED:	1/12/16	**DRILLER:**	EDPS, Inc.
DRILLING METHOD:	Geoprobe	**LATITUDE:**	NA
ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Soil Description	PID (ppm)
0 / 0		**Concrete**	0.1
		Silty CLAY: Reddish Brown; with mica fragments	1.4
5 / -5			
10 / -10			
15 / -15			
20 / -20			
25 / -25			
30 / -30			
35 / -35			
40 / -40			
45 / -45			



NOTES:

LOG OF SOIL BORING MW-7C
WITH MONITOR WELL CONSTRUCTION NOTES

S&ME
9751 Southern Pine Boulevard
Charlotte, North Carolina 28273

PROJECT NAME:	Petty Machine Company		
DATE DRILLED:	1/12/16	**LOGGED BY:**	S. Young
DRILLING METHOD:	Geoprobe/Air Hammer	**DRILLER:**	EDPS, Inc.
DEPTH TO WATER:	30.27	**LATITUDE:**	NA
TOC ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Description	PID (ppm)	Well Construction	Well Description
0		Topsoil: grass and organics			
		Sandy CLAY: Orangish Red; with some silt	0.1		
-5		Silty CLAY: Orangish Red			
		Silty CLAY: Reddish Orange; occasional orangish yellow mottling, with occasional quartz and feldspar fragments	0.0		
-10		Silty CLAY: Orangish Tan; tight	0.0		
-15			0.0		
		Sandy CLAY: Light Brown to Brown; with occasional quartz and dark mineral fragments	0.0		
-20		soft			
		slight dark mineral layering	0.1		2" Sch 40 PVC Casing
		moist			
-25		Silty CLAY: Light Brown; dark mineral layering, soft, with occasional quartz fragments, moist	0.1		6" Sch 40 PVC Casing Inner Grout
-30					Outer Grout
		Silty CLAY: Orangish Brown; soft, with quartz and dark mineral fragments, moist wet at ~34'	0.2		
-35		Silty CLAY: Light Brown; with occasional quartz, mica, and dark mineral fragments, soft, wet	0.2		
-40		Silty CLAY: Light Reddish Brown; with quartz, mica, feldspar, and dark mineral fragments, tight, wet	0.2		
-45		CLAY: Light Brown; with quartz, mica, feldspar, and dark mineral fragments, relict banding present, tight, wet	0.0		
-50					

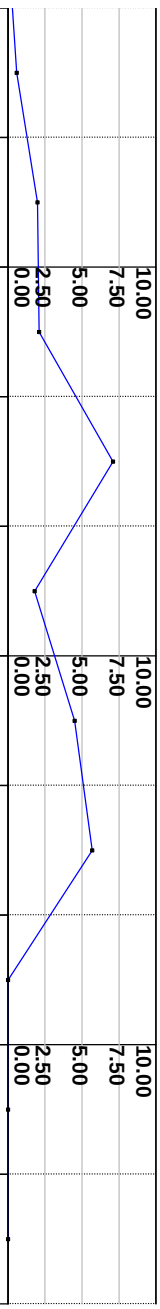
NOTES:

LOG OF SOIL BORING MW-7C
WITH MONITOR WELL CONSTRUCTION NOTES

S&ME
9751 Southern Pine Boulevard
Charlotte, North Carolina 28273

PROJECT NAME:	Petty Machine Company		
DATE DRILLED:	1/12/16	**LOGGED BY:**	S. Young
DRILLING METHOD:	Geoprobe/Air Hammer	**DRILLER:**	EDPS, Inc.
DEPTH TO WATER:	30.27	**LATITUDE:**	NA
TOC ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Description	PID (ppm)	Well Construction	Well Description
-50 / -50		**Sandy SILT: Saprolite, heavy relict banding present, with quartz, mica, feldspar, and dark mineral fragments, tight, wet**	0.6		
-55 / -55		**increasing mineral fragment size, gneissic banding present**	2.0		
-60 / -60		**increasing dark mineral and feldspar content**	2.1		
-65 / -65		**Partially Weathered Rock: High Shoals Granite; Tannish White and Dark Gray, high feldspar and dark mineral content, slight quartz and mica content**	7.1		
-70 / -70			1.8		2" Sch 40 PVC Casing
-75 / -75			4.5		6" Sch 40 PVC Casing Inner Grout
-80 / -80			5.7		Outer Grout
-85 / -85			0.0		
-90 / -90			0.0		
-95 / -95			0.0		
-100 / -100					



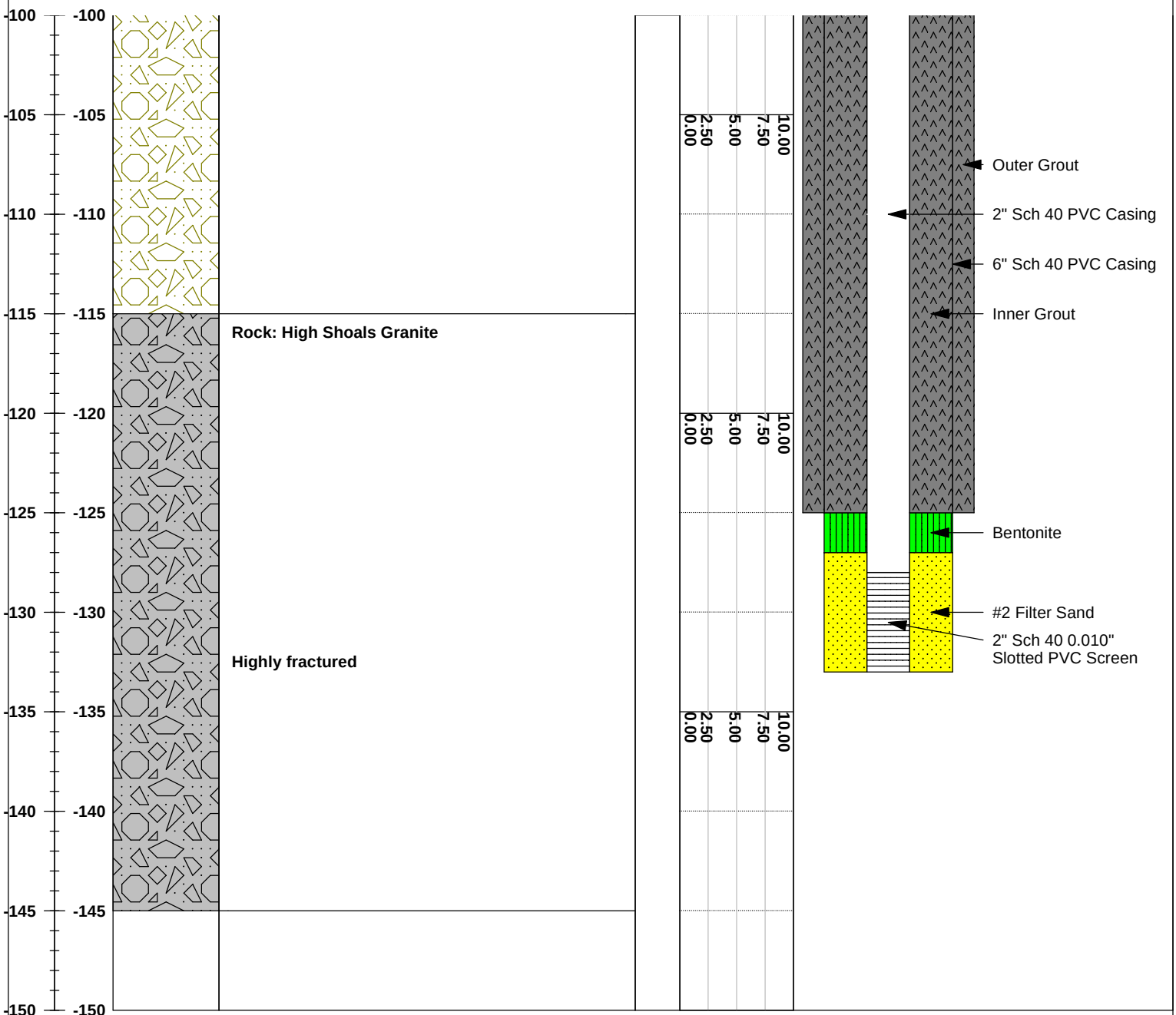
NOTES:

LOG OF SOIL BORING MW-7C
WITH MONITOR WELL CONSTRUCTION NOTES

S&ME
9751 Southern Pine Boulevard
Charlotte, North Carolina 28273

PROJECT NAME:	Petty Machine Company		
DATE DRILLED:	1/12/16	**LOGGED BY:**	S. Young
DRILLING METHOD:	Geoprobe/Air Hammer	**DRILLER:**	EDPS, Inc.
DEPTH TO WATER:	30.27	**LATITUDE:**	NA
TOC ELEVATION:	NM	**LONGITUDE:**	NA

ELEVATION (ft.) / DEPTH (ft.)	LITHOLOGY	Description	PID (ppm)	Well Construction	Well Description



NOTES:

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Tommy Bolyard

Well Contractor Name

3307

NC Well Contractor Certification Number

Environmental Drilling & Probing Services, LLC

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☑ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 1/8/16-1/13/16 **Well ID#** MW-7C

5a. Well Location:

Petty Machine Comany

Facility/Owner Name

Facility ID# (if applicable)

2403 Forbes Road, Gastonia, NC

Physical Address, City, and Zip

Gaston

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

6. Is (are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: one

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 1@132' **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 6" **(in.)**

12. Well construction method: HSA/air rotary

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
125 ft.	0 ft.	6 in.	sch.40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
132 ft.	127 ft.	2 in.	0.01	sch.40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
126 ft.	124 ft.	Bentonite	Pour (TR-30)
124 ft.	0 ft.	Grout	Tremie
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
132 ft.	126 ft.	Sand	Tremie
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	62 ft.	Clay-PWR (Auger refusal)
62 ft.	115 ft.	PWR
115 ft.	132 ft.	bedrock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

1/18/16

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:

Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

Appendix V – Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-88585-1
Client Project/Site: PETTY MACHINE CO

For:
US Waste Industries
4420 Jeffries Hwy
Walterboro, South Carolina 29488

Attn: Mr. Tyler (Ty) Odum

Roxanne L Connor

Authorized for release by:
10/15/2015 10:05:33 AM
Roxanne Connor, Senior Project Manager
(615)301-5761
roxanne.connor@testamericainc.com

Designee for

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-88585-1	S1	Solid	09/30/15 06:27	10/01/15 10:35
490-88585-2	S2	Solid	09/30/15 09:31	10/01/15 10:35
490-88585-3	S3	Solid	09/30/15 09:35	10/01/15 10:35
490-88585-4	S4	Solid	09/30/15 09:38	10/01/15 10:35
490-88585-5	S5	Solid	09/30/15 09:42	10/01/15 10:35
490-88585-6	NA1	Solid	09/30/15 09:46	10/01/15 10:35
490-88585-7	NA2	Solid	09/30/15 09:56	10/01/15 10:35
490-88585-8	EN1	Solid	09/30/15 10:03	10/01/15 10:35

Job ID: 490-88585-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-88585-1

Comments
No additional comments.

Receipt
The samples were received on 10/1/2015 10:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

Metals
Method(s) 6010C: The following samples was diluted to bring the concentration of target analytes within the calibration range: NA1 (490-88585-6) and NA2 (490-88585-7). Elevated reporting limits (RLs) are provided.

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

Organic Prep
Method(s) 1311: is a filter only with no rotatable solids: NA1 (490-88585-6) and NA2 (490-88585-7)

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

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Client Sample Results

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Client Sample ID: S1

Date Collected: 09/30/15 06:27
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-1

Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.500		mg/L		10/05/15 14:44	10/06/15 21:20	1
Barium	ND		10.0		mg/L		10/05/15 14:44	10/06/15 21:20	1
Cadmium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 21:20	1
Chromium	ND		0.500		mg/L		10/05/15 14:44	10/06/15 21:20	1
Silver	ND		0.500		mg/L		10/05/15 14:44	10/06/15 21:20	1
Lead	ND		0.500		mg/L		10/05/15 14:44	10/06/15 21:20	1
Selenium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 21:20	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00200		mg/L		10/05/15 15:34	10/06/15 08:54	1

Client Sample Results

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Client Sample ID: S2

Date Collected: 09/30/15 09:31
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-2

Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.500		mg/L		10/05/15 14:44	10/06/15 21:25	1
Barium	ND		10.0		mg/L		10/05/15 14:44	10/06/15 21:25	1
Cadmium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 21:25	1
Chromium	ND		0.500		mg/L		10/05/15 14:44	10/06/15 21:25	1
Silver	ND		0.500		mg/L		10/05/15 14:44	10/06/15 21:25	1
Lead	ND		0.500		mg/L		10/05/15 14:44	10/06/15 21:25	1
Selenium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 21:25	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00200		mg/L		10/05/15 15:34	10/06/15 09:02	1

Client Sample Results

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Client Sample ID: S3

Date Collected: 09/30/15 09:35
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-3

Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.500		mg/L		10/05/15 14:44	10/06/15 20:27	1
Barium	ND		10.0		mg/L		10/05/15 14:44	10/06/15 20:27	1
Cadmium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 20:27	1
Chromium	**944**		2.50		mg/L		10/05/15 14:44	10/08/15 02:29	5
Silver	ND		0.500		mg/L		10/05/15 14:44	10/06/15 20:27	1
Lead	ND		0.500		mg/L		10/05/15 14:44	10/06/15 20:27	1
Selenium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 20:27	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00200		mg/L		10/05/15 15:34	10/06/15 09:04	1

Client Sample Results

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Client Sample ID: S4

Date Collected: 09/30/15 09:38
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-4

Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.500		mg/L		10/05/15 14:44	10/06/15 20:32	1
Barium	ND		10.0		mg/L		10/05/15 14:44	10/06/15 20:32	1
Cadmium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 20:32	1
Chromium	**570**		2.50		mg/L		10/05/15 14:44	10/08/15 02:34	5
Silver	ND		0.500		mg/L		10/05/15 14:44	10/06/15 20:32	1
Lead	ND		0.500		mg/L		10/05/15 14:44	10/06/15 20:32	1
Selenium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 20:32	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00200		mg/L		10/05/15 15:34	10/06/15 09:07	1

Client Sample Results

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Client Sample ID: S5

Date Collected: 09/30/15 09:42
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-5

Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.500		mg/L		10/05/15 14:44	10/06/15 20:36	1
Barium	ND		10.0		mg/L		10/05/15 14:44	10/06/15 20:36	1
Cadmium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 20:36	1
Chromium	**414**		0.500		mg/L		10/05/15 14:44	10/06/15 20:36	1
Silver	ND		0.500		mg/L		10/05/15 14:44	10/06/15 20:36	1
Lead	ND		0.500		mg/L		10/05/15 14:44	10/06/15 20:36	1
Selenium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 20:36	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00200		mg/L		10/05/15 15:34	10/06/15 09:09	1

Client Sample Results

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Client Sample ID: NA1

Date Collected: 09/30/15 09:46
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-6

Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**857**		484		mg/L		10/05/15 14:44	10/14/15 13:57	100
Barium	ND		9670		mg/L		10/05/15 14:44	10/14/15 13:57	100
Cadmium	**18.3**		4.84		mg/L		10/05/15 14:44	10/12/15 22:29	5
Chromium	**264000**		484		mg/L		10/05/15 14:44	10/14/15 13:57	100
Silver	ND		4.84		mg/L		10/05/15 14:44	10/06/15 21:33	1
Lead	**27.2**		4.84		mg/L		10/05/15 14:44	10/06/15 21:33	1
Selenium	ND		0.967		mg/L		10/05/15 14:44	10/06/15 21:33	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.147**		0.00998		mg/L		10/05/15 15:34	10/06/15 09:34	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
corrosivity by pH	**0.980**		0.100		SU			10/14/15 17:40	1

Client Sample Results

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Client Sample ID: NA2

Date Collected: 09/30/15 09:56
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-7

Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**807**		497		mg/L		10/05/15 14:44	10/14/15 14:02	100
Barium	ND		9940		mg/L		10/05/15 14:44	10/14/15 14:02	100
Cadmium	**18.2**		4.97		mg/L		10/05/15 14:44	10/12/15 22:43	5
Chromium	**250000**		497		mg/L		10/05/15 14:44	10/14/15 14:02	100
Silver	ND		4.97		mg/L		10/05/15 14:44	10/06/15 21:37	1
Lead	**20.5**		4.97		mg/L		10/05/15 14:44	10/06/15 21:37	1
Selenium	ND		0.994		mg/L		10/05/15 14:44	10/06/15 21:37	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.149**		0.00980		mg/L		10/05/15 15:35	10/06/15 09:54	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
corrosivity by pH	**1.53**		0.100		SU			10/14/15 17:40	1

Client Sample Results

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Client Sample ID: EN1

Date Collected: 09/30/15 10:03
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-8

Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.500		mg/L		10/05/15 14:44	10/06/15 20:41	1
Barium	ND		10.0		mg/L		10/05/15 14:44	10/06/15 20:41	1
Cadmium	**0.497**		0.100		mg/L		10/05/15 14:44	10/06/15 20:41	1
Chromium	**8.13**		0.500		mg/L		10/05/15 14:44	10/06/15 20:41	1
Silver	ND		0.500		mg/L		10/05/15 14:44	10/06/15 20:41	1
Lead	**0.865**		0.500		mg/L		10/05/15 14:44	10/06/15 20:41	1
Selenium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 20:41	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00200		mg/L		10/05/15 15:34	10/06/15 09:19	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
corrosivity by pH	**5.56**		0.100		SU			10/14/15 17:40	1

QC Sample Results

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-287074/1-A
Matrix: Solid
Analysis Batch: 287538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 287074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0500		mg/L		10/05/15 14:44	10/06/15 19:36	1
Barium	ND		1.00		mg/L		10/05/15 14:44	10/06/15 19:36	1
Cadmium	ND		0.0100		mg/L		10/05/15 14:44	10/06/15 19:36	1
Chromium	ND		0.0500		mg/L		10/05/15 14:44	10/06/15 19:36	1
Silver	ND		0.0500		mg/L		10/05/15 14:44	10/06/15 19:36	1
Lead	ND		0.0500		mg/L		10/05/15 14:44	10/06/15 19:36	1
Selenium	ND		0.0100		mg/L		10/05/15 14:44	10/06/15 19:36	1

Lab Sample ID: LCS 490-287074/2-A
Matrix: Solid
Analysis Batch: 287538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 287074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.1906		mg/L		95	80 - 120
Barium	2.00	2.089		mg/L		104	80 - 120
Cadmium	0.200	0.2008		mg/L		100	80 - 120
Chromium	1.00	1.067		mg/L		107	80 - 120
Silver	0.200	0.2169		mg/L		108	80 - 120
Lead	1.00	1.045		mg/L		105	80 - 120
Selenium	0.200	0.1917		mg/L		96	80 - 120

Lab Sample ID: LCSD 490-287074/3-A
Matrix: Solid
Analysis Batch: 287538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 287074

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.200	0.1924		mg/L		96	80 - 120	1	20
Barium	2.00	2.087		mg/L		104	80 - 120	0	20
Cadmium	0.200	0.2009		mg/L		100	80 - 120	0	20
Chromium	1.00	1.069		mg/L		107	80 - 120	0	20
Silver	0.200	0.2173		mg/L		109	80 - 120	0	20
Lead	1.00	1.041		mg/L		104	80 - 120	0	20
Selenium	0.200	0.1899		mg/L		95	80 - 120	1	20

Lab Sample ID: MB 490-286983/1-B
Matrix: Solid
Analysis Batch: 287538

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 287074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.500		mg/L		10/05/15 14:44	10/06/15 19:49	1
Barium	ND		10.0		mg/L		10/05/15 14:44	10/06/15 19:49	1
Cadmium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 19:49	1
Chromium	ND		0.500		mg/L		10/05/15 14:44	10/06/15 19:49	1
Silver	ND		0.500		mg/L		10/05/15 14:44	10/06/15 19:49	1
Lead	ND		0.500		mg/L		10/05/15 14:44	10/06/15 19:49	1
Selenium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 19:49	1

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

Lab Sample ID: MB 490-286986/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 287538 — **Prep Batch: 287074**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.500		mg/L		10/05/15 14:44	10/06/15 21:16	1
Barium	ND		10.0		mg/L		10/05/15 14:44	10/06/15 21:16	1
Cadmium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 21:16	1
Chromium	ND		0.500		mg/L		10/05/15 14:44	10/06/15 21:16	1
Silver	ND		0.500		mg/L		10/05/15 14:44	10/06/15 21:16	1
Lead	ND		0.500		mg/L		10/05/15 14:44	10/06/15 21:16	1
Selenium	ND		0.100		mg/L		10/05/15 14:44	10/06/15 21:16	1

Lab Sample ID: 490-87607-F-2-G MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 287538 — **Prep Batch: 287074**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		2.00	2.015		mg/L		101	75 - 125
Barium	ND		20.0	20.25		mg/L		100	75 - 125
Cadmium	ND		2.00	2.045		mg/L		102	75 - 125
Chromium	ND		10.0	10.09		mg/L		101	75 - 125
Silver	ND		2.00	2.027		mg/L		101	75 - 125
Lead	ND		10.0	10.10		mg/L		99	75 - 125
Selenium	ND		2.00	2.026		mg/L		101	75 - 125

Lab Sample ID: 490-87607-F-2-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 287538 — **Prep Batch: 287074**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		2.00	2.028		mg/L		101	75 - 125	1	20
Barium	ND		20.0	20.22		mg/L		100	75 - 125	0	20
Cadmium	ND		2.00	2.035		mg/L		102	75 - 125	0	20
Chromium	ND		10.0	10.16		mg/L		102	75 - 125	1	20
Silver	ND		2.00	2.032		mg/L		102	75 - 125	0	20
Lead	ND		10.0	10.09		mg/L		99	75 - 125	0	20
Selenium	ND		2.00	2.023		mg/L		101	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 490-287100/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 287270 — **Prep Batch: 287100**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00200		mg/L		10/05/15 15:34	10/06/15 08:47	1

Lab Sample ID: LCS 490-287100/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 287270 — **Prep Batch: 287100**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0200	0.01866		mg/L		93	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 490-286983/1-C — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 287270 — **Prep Batch: 287100**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00200		mg/L		10/05/15 15:34	10/06/15 08:52	1

Lab Sample ID: MB 490-286986/1-C — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 287270 — **Prep Batch: 287100**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00200		mg/L		10/05/15 15:34	10/06/15 09:32	1

Lab Sample ID: MB 490-286990/1-C — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 287270 — **Prep Batch: 287100**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00200		mg/L		10/05/15 15:34	10/06/15 09:37	1

Lab Sample ID: 490-88585-1 MS — **Client Sample ID: S1**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 287270 — **Prep Batch: 287100**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.0200	0.01865		mg/L		93	75 - 125		

Lab Sample ID: 490-88585-1 MSD — **Client Sample ID: S1**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 287270 — **Prep Batch: 287100**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.0200	0.01840		mg/L		92	75 - 125	1	20

Method: 9045D - pH

Lab Sample ID: 490-88618-A-1-C DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 289807

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
corrosivity by pH	5..54			5.540		SU				NaN	20

QC Association Summary

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Metals

Leach Batch: 286983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-87607-F-2-G MS	Matrix Spike	TCLP	Solid	1311	
490-87607-F-2-H MSD	Matrix Spike Duplicate	TCLP	Solid	1311	
490-88585-3	S3	TCLP	Solid	1311	
490-88585-4	S4	TCLP	Solid	1311	
490-88585-5	S5	TCLP	Solid	1311	
490-88585-8	EN1	TCLP	Solid	1311	
MB 490-286983/1-B	Method Blank	TCLP	Solid	1311	
MB 490-286983/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 286986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-88585-1	S1	TCLP	Solid	1311	
490-88585-1 MS	S1	TCLP	Solid	1311	
490-88585-1 MSD	S1	TCLP	Solid	1311	
490-88585-2	S2	TCLP	Solid	1311	
MB 490-286986/1-B	Method Blank	TCLP	Solid	1311	
MB 490-286986/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 286989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-88585-6	NA1	TCLP	Solid	1311	
490-88585-7	NA2	TCLP	Solid	1311	

Leach Batch: 286990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-286990/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 287074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-87607-F-2-G MS	Matrix Spike	TCLP	Solid	3010A	286983
490-87607-F-2-H MSD	Matrix Spike Duplicate	TCLP	Solid	3010A	286983
490-88585-1	S1	TCLP	Solid	3010A	286986
490-88585-2	S2	TCLP	Solid	3010A	286986
490-88585-3	S3	TCLP	Solid	3010A	286983
490-88585-4	S4	TCLP	Solid	3010A	286983
490-88585-5	S5	TCLP	Solid	3010A	286983
490-88585-6	NA1	TCLP	Solid	3010A	286989
490-88585-7	NA2	TCLP	Solid	3010A	286989
490-88585-8	EN1	TCLP	Solid	3010A	286983
LCS 490-287074/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 490-287074/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	
MB 490-286983/1-B	Method Blank	TCLP	Solid	3010A	286983
MB 490-286986/1-B	Method Blank	TCLP	Solid	3010A	286986
MB 490-287074/1-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 287100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-88585-1	S1	TCLP	Solid	7470A	286986
490-88585-1 MS	S1	TCLP	Solid	7470A	286986
490-88585-1 MSD	S1	TCLP	Solid	7470A	286986
490-88585-2	S2	TCLP	Solid	7470A	286986

Metals (Continued)

Prep Batch: 287100 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-88585-3	S3	TCLP	Solid	7470A	286983
490-88585-4	S4	TCLP	Solid	7470A	286983
490-88585-5	S5	TCLP	Solid	7470A	286983
490-88585-6	NA1	TCLP	Solid	7470A	286989
490-88585-7	NA2	TCLP	Solid	7470A	286989
490-88585-8	EN1	TCLP	Solid	7470A	286983
LCS 490-287100/2-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 490-286983/1-C	Method Blank	TCLP	Solid	7470A	286983
MB 490-286986/1-C	Method Blank	TCLP	Solid	7470A	286986
MB 490-286990/1-C	Method Blank	TCLP	Solid	7470A	286990
MB 490-287100/1-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 287270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-88585-1	S1	TCLP	Solid	7470A	287100
490-88585-1 MS	S1	TCLP	Solid	7470A	287100
490-88585-1 MSD	S1	TCLP	Solid	7470A	287100
490-88585-2	S2	TCLP	Solid	7470A	287100
490-88585-3	S3	TCLP	Solid	7470A	287100
490-88585-4	S4	TCLP	Solid	7470A	287100
490-88585-5	S5	TCLP	Solid	7470A	287100
490-88585-6	NA1	TCLP	Solid	7470A	287100
490-88585-7	NA2	TCLP	Solid	7470A	287100
490-88585-8	EN1	TCLP	Solid	7470A	287100
LCS 490-287100/2-A	Lab Control Sample	Total/NA	Solid	7470A	287100
MB 490-286983/1-C	Method Blank	TCLP	Solid	7470A	287100
MB 490-286986/1-C	Method Blank	TCLP	Solid	7470A	287100
MB 490-286990/1-C	Method Blank	TCLP	Solid	7470A	287100
MB 490-287100/1-A	Method Blank	Total/NA	Solid	7470A	287100

Analysis Batch: 287538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-87607-F-2-G MS	Matrix Spike	TCLP	Solid	6010C	287074
490-87607-F-2-H MSD	Matrix Spike Duplicate	TCLP	Solid	6010C	287074
490-88585-1	S1	TCLP	Solid	6010C	287074
490-88585-2	S2	TCLP	Solid	6010C	287074
490-88585-3	S3	TCLP	Solid	6010C	287074
490-88585-4	S4	TCLP	Solid	6010C	287074
490-88585-5	S5	TCLP	Solid	6010C	287074
490-88585-6	NA1	TCLP	Solid	6010C	287074
490-88585-7	NA2	TCLP	Solid	6010C	287074
490-88585-8	EN1	TCLP	Solid	6010C	287074
LCS 490-287074/2-A	Lab Control Sample	Total/NA	Solid	6010C	287074
LCSD 490-287074/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	287074
MB 490-286983/1-B	Method Blank	TCLP	Solid	6010C	287074
MB 490-286986/1-B	Method Blank	TCLP	Solid	6010C	287074
MB 490-287074/1-A	Method Blank	Total/NA	Solid	6010C	287074

Analysis Batch: 287894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-88585-3	S3	TCLP	Solid	6010C	287074

QC Association Summary

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Metals (Continued)

Analysis Batch: 287894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-88585-4	S4	TCLP	Solid	6010C	287074

Analysis Batch: 289165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-88585-6	NA1	TCLP	Solid	6010C	287074
490-88585-7	NA2	TCLP	Solid	6010C	287074

Analysis Batch: 289796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-88585-6	NA1	TCLP	Solid	6010C	287074
490-88585-7	NA2	TCLP	Solid	6010C	287074

General Chemistry

Leach Batch: 289805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-88585-6	NA1	Soluble	Solid	DI Leach	
490-88585-7	NA2	Soluble	Solid	DI Leach	
490-88585-8	EN1	Soluble	Solid	DI Leach	
490-88618-A-1-C DU	Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 289807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-88585-6	NA1	Soluble	Solid	9045D	289805
490-88585-7	NA2	Soluble	Solid	9045D	289805
490-88585-8	EN1	Soluble	Solid	9045D	289805
490-88618-A-1-C DU	Duplicate	Soluble	Solid	9045D	289805
LCS 490-289807/12	Lab Control Sample	Total/NA	Solid	9045D	

Lab Chronicle

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Client Sample ID: S1

Lab Sample ID: 490-88585-1
Date Collected: 09/30/15 06:27
Matrix: Solid
Date Received: 10/01/15 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	286986	10/05/15 11:28	BKP	TAL NSH
TCLP	Prep	3010A			5 mL	50 mL	287074	10/05/15 14:44	KMS	TAL NSH
TCLP	Analysis	6010C		1	5 mL	50 mL	287538	10/06/15 21:20	TSC	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286986	10/05/15 11:28	BKP	TAL NSH
TCLP	Prep	7470A			3 mL	30 mL	287100	10/05/15 15:34	NJB	TAL NSH
TCLP	Analysis	7470A		1	3 mL	30 mL	287270	10/06/15 08:54	NJB	TAL NSH

Client Sample ID: S2

Lab Sample ID: 490-88585-2
Date Collected: 09/30/15 09:31
Matrix: Solid
Date Received: 10/01/15 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	286986	10/05/15 11:28	BKP	TAL NSH
TCLP	Prep	3010A			5 mL	50 mL	287074	10/05/15 14:44	KMS	TAL NSH
TCLP	Analysis	6010C		1	5 mL	50 mL	287538	10/06/15 21:25	TSC	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286986	10/05/15 11:28	BKP	TAL NSH
TCLP	Prep	7470A			3 mL	30 mL	287100	10/05/15 15:34	NJB	TAL NSH
TCLP	Analysis	7470A		1	3 mL	30 mL	287270	10/06/15 09:02	NJB	TAL NSH

Client Sample ID: S3

Lab Sample ID: 490-88585-3
Date Collected: 09/30/15 09:35
Matrix: Solid
Date Received: 10/01/15 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	286983	10/05/15 11:24	BKP	TAL NSH
TCLP	Prep	3010A			5 mL	50 mL	287074	10/05/15 14:44	KMS	TAL NSH
TCLP	Analysis	6010C		1	5 mL	50 mL	287538	10/06/15 20:27	TSC	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286983	10/05/15 11:24	BKP	TAL NSH
TCLP	Prep	3010A			5 mL	50 mL	287074	10/05/15 14:44	KMS	TAL NSH
TCLP	Analysis	6010C		5	5 mL	50 mL	287894	10/08/15 02:29	TSC	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286983	10/05/15 11:24	BKP	TAL NSH
TCLP	Prep	7470A			3 mL	30 mL	287100	10/05/15 15:34	NJB	TAL NSH
TCLP	Analysis	7470A		1	3 mL	30 mL	287270	10/06/15 09:04	NJB	TAL NSH

Client Sample ID: S4

Lab Sample ID: 490-88585-4
Date Collected: 09/30/15 09:38
Matrix: Solid
Date Received: 10/01/15 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	286983	10/05/15 11:24	BKP	TAL NSH
TCLP	Prep	3010A			5 mL	50 mL	287074	10/05/15 14:44	KMS	TAL NSH
TCLP	Analysis	6010C		1	5 mL	50 mL	287538	10/06/15 20:32	TSC	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286983	10/05/15 11:24	BKP	TAL NSH
TCLP	Prep	3010A			5 mL	50 mL	287074	10/05/15 14:44	KMS	TAL NSH

Lab Chronicle

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Client Sample ID: S4
Date Collected: 09/30/15 09:38
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6010C		5	5 mL	50 mL	287894	10/08/15 02:34	TSC	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286983	10/05/15 11:24	BKP	TAL NSH
TCLP	Prep	7470A			3 mL	30 mL	287100	10/05/15 15:34	NJB	TAL NSH
TCLP	Analysis	7470A		1	3 mL	30 mL	287270	10/06/15 09:07	NJB	TAL NSH

Client Sample ID: S5
Date Collected: 09/30/15 09:42
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	286983	10/05/15 11:24	BKP	TAL NSH
TCLP	Prep	3010A			5 mL	50 mL	287074	10/05/15 14:44	KMS	TAL NSH
TCLP	Analysis	6010C		1	5 mL	50 mL	287538	10/06/15 20:36	TSC	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286983	10/05/15 11:24	BKP	TAL NSH
TCLP	Prep	7470A			3 mL	30 mL	287100	10/05/15 15:34	NJB	TAL NSH
TCLP	Analysis	7470A		1	3 mL	30 mL	287270	10/06/15 09:09	NJB	TAL NSH

Client Sample ID: NA1
Date Collected: 09/30/15 09:46
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	286989	10/05/15 11:32	BKP	TAL NSH
TCLP	Prep	3010A			0.517 g	50 mL	287074	10/05/15 14:44	KMS	TAL NSH
TCLP	Analysis	6010C		1	0.517 g	50 mL	287538	10/06/15 21:33	TSC	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286989	10/05/15 11:32	BKP	TAL NSH
TCLP	Prep	3010A			0.517 g	50 mL	287074	10/05/15 14:44	KMS	TAL NSH
TCLP	Analysis	6010C		5	0.517 g	50 mL	289165	10/12/15 22:29	BLG	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286989	10/05/15 11:32	BKP	TAL NSH
TCLP	Prep	3010A			0.517 g	50 mL	287074	10/05/15 14:44	KMS	TAL NSH
TCLP	Analysis	6010C		100	0.517 g	50 mL	289796	10/14/15 13:57	LEG	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286989	10/05/15 11:32	BKP	TAL NSH
TCLP	Prep	7470A			.601 mL	30 mL	287100	10/05/15 15:34	NJB	TAL NSH
TCLP	Analysis	7470A		1	.601 mL	30 mL	287270	10/06/15 09:34	NJB	TAL NSH
Soluble	Leach	DI Leach			20 g	20 mL	289805	10/14/15 17:33	JPV	TAL NSH
Soluble	Analysis	9045D		1	20 g	20 mL	289807	10/14/15 17:40	JPV	TAL NSH

Client Sample ID: NA2
Date Collected: 09/30/15 09:56
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	286989	10/05/15 11:32	BKP	TAL NSH
TCLP	Prep	3010A			0.503 g	50 mL	287074	10/05/15 14:44	KMS	TAL NSH

Lab Chronicle

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Client Sample ID: NA2

Date Collected: 09/30/15 09:56
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6010C		1	0.503 g	50 mL	287538	10/06/15 21:37	TSC	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286989	10/05/15 11:32	BKP	TAL NSH
TCLP	Prep	3010A			0.503 g	50 mL	287074	10/05/15 14:44	KMS	TAL NSH
TCLP	Analysis	6010C		5	0.503 g	50 mL	289165	10/12/15 22:43	BLG	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286989	10/05/15 11:32	BKP	TAL NSH
TCLP	Prep	3010A			0.503 g	50 mL	287074	10/05/15 14:44	KMS	TAL NSH
TCLP	Analysis	6010C		100	0.503 g	50 mL	289796	10/14/15 14:02	LEG	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286989	10/05/15 11:32	BKP	TAL NSH
TCLP	Prep	7470A			.612 mL	30 mL	287100	10/05/15 15:35	NJB	TAL NSH
TCLP	Analysis	7470A		1	.612 mL	30 mL	287270	10/06/15 09:54	NJB	TAL NSH
Soluble	Leach	DI Leach			20 g	20 mL	289805	10/14/15 17:33	JPV	TAL NSH
Soluble	Analysis	9045D		1	20 g	20 mL	289807	10/14/15 17:40	JPV	TAL NSH

Client Sample ID: EN1

Date Collected: 09/30/15 10:03
Date Received: 10/01/15 10:35

Lab Sample ID: 490-88585-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	286983	10/05/15 11:24	BKP	TAL NSH
TCLP	Prep	3010A			5 mL	50 mL	287074	10/05/15 14:44	KMS	TAL NSH
TCLP	Analysis	6010C		1	5 mL	50 mL	287538	10/06/15 20:41	TSC	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	286983	10/05/15 11:24	BKP	TAL NSH
TCLP	Prep	7470A			3 mL	30 mL	287100	10/05/15 15:34	NJB	TAL NSH
TCLP	Analysis	7470A		1	3 mL	30 mL	287270	10/06/15 09:19	NJB	TAL NSH
Soluble	Leach	DI Leach			20 g	20 mL	289805	10/14/15 17:33	JPV	TAL NSH
Soluble	Analysis	9045D		1	20 g	20 mL	289807	10/14/15 17:40	JPV	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL NSH
7470A	Mercury (CVAA)	SW846	TAL NSH
9045D	pH	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: US Waste Industries
Project/Site: PETTY MACHINE CO

TestAmerica Job ID: 490-88585-1

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	387	12-31-15

Analysis Method	Prep Method	Matrix	Analyte

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-88585 Chain of Custody

Cooler Received/Opened On 10/1/2015 @ 1035

1. Tracking # 9912 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 3.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: One front & Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) DA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) HMG

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) HMG

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) HMG

I certify that I attached a label with the unique LIMS number to each container (intial) HMG

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

10/15/2015

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes ____ No ____

Enforcement Action? Yes ____ No ____

Client Name/Account #: US Waste Inc. (3674) 1408687

Address: 4420 North Jeffries Highway

City/State/Zip: Walterboro, SC 29488

Site State: NC

Project Manager: Tyler Odum email: tyler@uswonline.com

PO#: TO110981

Telephone Number: 843.539.1767 **Fax No.:**

TA Quote #: 49009551

Sampler Name: (Print)

Project ID: PETTY NACHINE CO

Sampler Signature:

Project #:

	Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: TCLP METALS	PH									RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
1	S1	9/30/15	9:27A	1																		✓													
2	S2	9/30/15	9:31A	1																		✓													
3	S3	9/30/15	9:35A	1																		✓													
4	S4	9/30/15	9:38A	1																		✓													
5	S5	9/30/15	9:42A	1																		✓													
6	NA1	9/30/15	9:46A	2																		✓	✓												
7	NA2	9/30/15	9:56A	2																		✓	✓												
8	EN1	9/30/15	10:03A	2																		✓	✓												

Loc: 490
88585

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
[illegible]	9/30/2015	10:30AM	[illegible] 3.2 TAN	10/1/15	1035
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

Laboratory Comments:

Temperature Upon Receipt:

VOCs Free of Headspace? Y N

Login Sample Receipt Checklist

Client: US Waste Industries

Job Number: 490-88585-1

Login Number: 88585
List Number: 1
Creator: Gundi, Hozar K

List Source: TestAmerica Nashville

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.	N/A	
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	
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.	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.	N/A	
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	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 28, 2016

Al Quarles
S&ME Inc. Charlotte, NC
9751 Southern Pine Blvd.
Charlotte, NC 28273

Project Location: Petty Machine Company
Client Job Number:
Project Number: 4335-15-109
Laboratory Work Order Number: 16A0477

Enclosed are results of analyses for samples received by the laboratory on January 13, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

S&ME Inc. Charlotte, NC
9751 Southern Pine Blvd.
Charlotte, NC 28273
ATTN: Al Quarles

REPORT DATE: 1/28/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 4335-15-109

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16A0477

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Petty Machine Company

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SL-AC2-4 (0-1)	16A0477-01	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
SL-AC2-4 (9-10)	16A0477-02	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
SL-AC2-3 (0-1)	16A0477-03	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
SL-AC2-3 (9-10)	16A0477-04	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
SL-AC2-2 (0-1)	16A0477-05	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
SL-AC2-2 (9-10)	16A0477-06	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
SL-AC1-4 (19-20)	16A0477-07	Soil		SM 2540G	
				SW-846 8260B	
SL-AC1-4 (34-35)	16A0477-08	Soil		SM 2540G	
				SW-846 8260B	
SL-AC1-3 (19-20)	16A0477-09	Soil		SM 2540G	
				SW-846 8260B	
SL-AC1-3 (39-40)	16A0477-10	Soil		SM 2540G	
				SW-846 8260B	
SL-AC1-3-DUP	16A0477-11	Soil		SM 2540G	
				SW-846 8260B	
EB-1	16A0477-12	Equipment Blank Water		SW-846 6010C	
				SW-846 7196A	
				SW-846 7470A	
				SW-846 8260B	
SL-AC1-2 (15-20)	16A0477-13	Soil		SM 2540G	
				SW-846 8260B	
SL-AC1-2 (35-38)	16A0477-14	Soil		SM 2540G	
				SW-846 8260B	
SL-AC1-1 (10-15)	16A0477-15	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
				SW-846 8260B	

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S&ME Inc. Charlotte, NC
9751 Southern Pine Blvd.
Charlotte, NC 28273
ATTN: Al Quarles

REPORT DATE: 1/28/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 4335-15-109

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16A0477

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Petty Machine Company

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SL-AC1-1 (35-40)	16A0477-16	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
				SW-846 8260B	
SL-AC2-1 (0-0.5)	16A0477-17	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
SL-AC2-1 (4.5-5.0)	16A0477-18	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
SL-AC2-DUP	16A0477-19	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
SL-SM1-1 (0-1)	16A0477-20	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
				SW-846 7471B	
SL-SM1-1 (9-10)	16A0477-21	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
				SW-846 7471B	
SL-SM1-2 (0-1)	16A0477-22	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
				SW-846 7471B	
SL-SM1-2 (9-10)	16A0477-23	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
				SW-846 7471B	
SL-SM1-DUP	16A0477-24	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
				SW-846 7471B	
EB-2	16A0477-25	Equipment Blank Water		SW-846 6010C	
				SW-846 7196A	
				SW-846 7470A	
				SW-846 8260B	
FB-1	16A0477-26	Water		SW-846 8260B	
TB-1	16A0477-27	Trip Blank Water		SW-846 8260B	
TB-2	16A0477-28	Trip Blank Water		SW-846 8260B	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

EXECUTIVE SUMMARY

Client ID: **EB-1** Lab ID: **16A0477-12**

No Results Detected

Client ID: **EB-2** Lab ID: **16A0477-25**

No Results Detected

Client ID: **FB-1** Lab ID: **16A0477-26**

No Results Detected

Client ID: **TB-1** Lab ID: **16A0477-27**

No Results Detected

Client ID: **TB-2** Lab ID: **16A0477-28**

No Results Detected

Con-Test does not accept liability for the consequences of any actions taken solely on the basis of the information provided in the Executive Summary section of this report. Users must review this report in its entirety to determine data usability and assessment.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

EXECUTIVE SUMMARY

Client ID: **SL-AC2-4 (0-1)** Lab ID: **16A0477-01**

Analyte	Results/Qual		DL	RL	Units	Method
Chromium	28		0.28	0.59	mg/Kg dry	SW-846 6010C
% Solids	79.5				% Wt	SM 2540G

Client ID: **SL-AC2-4 (9-10)** Lab ID: **16A0477-02**

Analyte	Results/Qual		DL	RL	Units	Method
Chromium	30		0.26	0.56	mg/Kg dry	SW-846 6010C
% Solids	85.7				% Wt	SM 2540G

Client ID: **SL-AC2-3 (0-1)** Lab ID: **16A0477-03**

Analyte	Results/Qual		DL	RL	Units	Method
Chromium	13		0.29	0.61	mg/Kg dry	SW-846 6010C
% Solids	79.8				% Wt	SM 2540G
Hexavalent Chromium	0.64	DL-03, J	0.53	0.97	mg/Kg dry	SW-846 7196A

Client ID: **SL-AC2-3 (9-10)** Lab ID: **16A0477-04**

Analyte	Results/Qual		DL	RL	Units	Method
Chromium	26		0.26	0.56	mg/Kg dry	SW-846 6010C
% Solids	84.9				% Wt	SM 2540G

Client ID: **SL-AC2-2 (0-1)** Lab ID: **16A0477-05**

Analyte	Results/Qual		DL	RL	Units	Method
Chromium	16		0.29	0.62	mg/Kg dry	SW-846 6010C
% Solids	74.3				% Wt	SM 2540G

Client ID: **SL-AC2-2 (9-10)** Lab ID: **16A0477-06**

Analyte	Results/Qual		DL	RL	Units	Method
Chromium	17		0.30	0.63	mg/Kg dry	SW-846 6010C
% Solids	78.5				% Wt	SM 2540G

Client ID: **SL-AC1-4 (19-20)** Lab ID: **16A0477-07**

Analyte	Results/Qual		DL	RL	Units	Method
% Solids	80.1				% Wt	SM 2540G

Client ID: **SL-AC1-4 (34-35)** Lab ID: **16A0477-08**

Analyte	Results/Qual		DL	RL	Units	Method
% Solids	73.8				% Wt	SM 2540G

Client ID: **SL-AC1-3 (19-20)** Lab ID: **16A0477-09**

Analyte	Results/Qual		DL	RL	Units	Method
1,1-Dichloroethane	0.0010	J	0.00082	0.0023	mg/Kg dry	SW-846 8260B
1,1-Dichloroethylene	0.0022	J	0.0013	0.0047	mg/Kg dry	SW-846 8260B
cis-1,2-Dichloroethylene	0.035		0.00094	0.0023	mg/Kg dry	SW-846 8260B
Trichloroethylene	0.0044		0.0012	0.0023	mg/Kg dry	SW-846 8260B
% Solids	71.5				% Wt	SM 2540G

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Client ID: **SL-AC1-3 (39-40)** Lab ID: **16A0477-10**

Analyte	Results/Qual		DL	RL	Units	Method
1,1-Dichloroethane	0.0012	J	0.00068	0.0019	mg/Kg dry	SW-846 8260B
1,1-Dichloroethylene	0.0013	J	0.0011	0.0039	mg/Kg dry	SW-846 8260B
cis-1,2-Dichloroethylene	0.057		0.00077	0.0019	mg/Kg dry	SW-846 8260B
Trichloroethylene	0.0046		0.00097	0.0019	mg/Kg dry	SW-846 8260B
% Solids	78.8				% Wt	SM 2540G

Client ID: **SL-AC1-3-DUP** Lab ID: **16A0477-11**

Analyte	Results/Qual		DL	RL	Units	Method
cis-1,2-Dichloroethylene	0.016		0.00084	0.0021	mg/Kg dry	SW-846 8260B
Trichloroethylene	0.0011	J	0.0011	0.0021	mg/Kg dry	SW-846 8260B
% Solids	78.4				% Wt	SM 2540G

Client ID: **SL-AC1-2 (15-20)** Lab ID: **16A0477-13**

Analyte	Results/Qual		DL	RL	Units	Method
cis-1,2-Dichloroethylene	0.0025		0.00093	0.0023	mg/Kg dry	SW-846 8260B
% Solids	76.8				% Wt	SM 2540G

Client ID: **SL-AC1-2 (35-38)** Lab ID: **16A0477-14**

Analyte	Results/Qual		DL	RL	Units	Method
1,1-Dichloroethylene	0.0024	J	0.0013	0.0047	mg/Kg dry	SW-846 8260B
cis-1,2-Dichloroethylene	0.015		0.00093	0.0023	mg/Kg dry	SW-846 8260B
Trichloroethylene	0.0018	J	0.0012	0.0023	mg/Kg dry	SW-846 8260B
% Solids	71.2				% Wt	SM 2540G

Client ID: **SL-AC1-1 (10-15)** Lab ID: **16A0477-15**

Analyte	Results/Qual		DL	RL	Units	Method
1,1-Dichloroethane	0.0030		0.00071	0.0020	mg/Kg dry	SW-846 8260B
1,1-Dichloroethylene	0.0092		0.0011	0.0041	mg/Kg dry	SW-846 8260B
1,4-Dioxane	0.22		0.059	0.10	mg/Kg dry	SW-846 8260B
cis-1,2-Dichloroethylene	0.10		0.00081	0.0020	mg/Kg dry	SW-846 8260B
Trichloroethylene	0.033		0.0010	0.0020	mg/Kg dry	SW-846 8260B
Vinyl Chloride	0.0022	J	0.0011	0.010	mg/Kg dry	SW-846 8260B
Chromium	19		0.30	0.64	mg/Kg dry	SW-846 6010C
% Solids	73.6				% Wt	SM 2540G

Client ID: **SL-AC1-1 (35-40)** Lab ID: **16A0477-16**

Analyte	Results/Qual		DL	RL	Units	Method
1,1-Dichloroethane	0.00081	J	0.00076	0.0022	mg/Kg dry	SW-846 8260B
1,1-Dichloroethylene	0.0053		0.0012	0.0044	mg/Kg dry	SW-846 8260B
cis-1,2-Dichloroethylene	0.016		0.00087	0.0022	mg/Kg dry	SW-846 8260B
Trichloroethylene	0.011		0.0011	0.0022	mg/Kg dry	SW-846 8260B
Chromium	7.2		0.30	0.65	mg/Kg dry	SW-846 6010C
% Solids	77.7				% Wt	SM 2540G

Client ID: **SL-AC2-1 (0-0.5)** Lab ID: **16A0477-17**

Analyte	Results/Qual		DL	RL	Units	Method
Chromium	34		0.25	0.54	mg/Kg dry	SW-846 6010C
% Solids	84.8				% Wt	SM 2540G
Hexavalent Chromium	0.71	DL-03	0.21	0.37	mg/Kg dry	SW-846 7196A

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Client ID: **SL-AC2-1 (4.5-5.0)** Lab ID: **16A0477-18**

Analyte	Results/Qual		DL	RL	Units	Method
Chromium	14		0.28	0.60	mg/Kg dry	SW-846 6010C
% Solids	77.3				% Wt	SM 2540G

Client ID: **SL-AC2-DUP** Lab ID: **16A0477-19**

Analyte	Results/Qual		DL	RL	Units	Method
Chromium	35		0.28	0.59	mg/Kg dry	SW-846 6010C
% Solids	82.4				% Wt	SM 2540G
Hexavalent Chromium	0.96	DL-03	0.21	0.38	mg/Kg dry	SW-846 7196A

Client ID: **SL-SM1-1 (0-1)** Lab ID: **16A0477-20**

Analyte	Results/Qual		DL	RL	Units	Method
Barium	130		0.95	3.1	mg/Kg dry	SW-846 6010C
Chromium	25		0.29	0.61	mg/Kg dry	SW-846 6010C
Lead	13		0.32	0.92	mg/Kg dry	SW-846 6010C
Mercury	0.043		0.0051	0.031	mg/Kg dry	SW-846 7471B
Nickel	9.9		0.18	0.61	mg/Kg dry	SW-846 6010C
% Solids	80.4				% Wt	SM 2540G

Client ID: **SL-SM1-1 (9-10)** Lab ID: **16A0477-21**

Analyte	Results/Qual		DL	RL	Units	Method
Barium	70		0.89	2.9	mg/Kg dry	SW-846 6010C
Chromium	18		0.27	0.57	mg/Kg dry	SW-846 6010C
Lead	15		0.30	0.86	mg/Kg dry	SW-846 6010C
Mercury	0.062		0.0051	0.030	mg/Kg dry	SW-846 7471B
Nickel	5.1		0.17	0.57	mg/Kg dry	SW-846 6010C
% Solids	80.8				% Wt	SM 2540G

Client ID: **SL-SM1-2 (0-1)** Lab ID: **16A0477-22**

Analyte	Results/Qual		DL	RL	Units	Method
Barium	120		0.94	3.0	mg/Kg dry	SW-846 6010C
Chromium	17		0.29	0.61	mg/Kg dry	SW-846 6010C
Lead	12		0.32	0.91	mg/Kg dry	SW-846 6010C
Mercury	0.025	J	0.0053	0.031	mg/Kg dry	SW-846 7471B
Nickel	6.2		0.18	0.61	mg/Kg dry	SW-846 6010C
% Solids	76.2				% Wt	SM 2540G

Client ID: **SL-SM1-2 (9-10)** Lab ID: **16A0477-23**

Analyte	Results/Qual		DL	RL	Units	Method
Barium	80		0.94	3.0	mg/Kg dry	SW-846 6010C
Chromium	27		0.28	0.60	mg/Kg dry	SW-846 6010C
Lead	14		0.32	0.91	mg/Kg dry	SW-846 6010C
Mercury	0.075		0.0051	0.030	mg/Kg dry	SW-846 7471B
Nickel	6.3		0.18	0.60	mg/Kg dry	SW-846 6010C
% Solids	77.4				% Wt	SM 2540G
Hexavalent Chromium	2.7		0.57	1.0	mg/Kg dry	SW-846 7196A

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Client ID: **SL-SM1-DUP** Lab ID: **16A0477-24**

Analyte	Results/Qual	DL	RL	Units	Method
Barium	110	0.91	2.9	mg/Kg dry	SW-846 6010C
Chromium	23	0.27	0.58	mg/Kg dry	SW-846 6010C
Lead	15	0.31	0.88	mg/Kg dry	SW-846 6010C
Mercury	0.042	0.0047	0.028	mg/Kg dry	SW-846 7471B
Nickel	9.1	0.17	0.58	mg/Kg dry	SW-846 6010C
% Solids	80.8			% Wt	SM 2540G

Con-Test does not accept liability for the consequences of any actions taken solely on the basis of the information provided in the Executive Summary section of this report. Users must review this report in its entirety to determine data usability and assessment.

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 01-28-16: Hexavalent chromiun was added to samples 16A0477-20-24 per client request.
REVISED REPORT 01-25-16: The 8260 method has been removed from sample 16A0477-06 in accordance with the CoC.

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SW-846 6010C

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Arsenic

B139956-MS1

Selenium

B139956-MS1

Silver

B139956-MS1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Barium

B139956-MS1

SW-846 7196A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

Hexavalent Chromium

16A0477-01[SL-AC2-4 (0-1)], 16A0477-02[SL-AC2-4 (9-10)], 16A0477-03[SL-AC2-3 (0-1)], 16A0477-04[SL-AC2-3 (9-10)], 16A0477-05[SL-AC2-2 (0-1)], 16A0477-06[SL-AC2-2 (9-10)], 16A0477-15[SL-AC1-1 (10-15)], 16A0477-16[SL-AC1-1 (35-40)], 16A0477-17[SL-AC2-1 (0-0.5)], 16A0477-18[SL-AC2-1 (4.5-5.0)], 16A0477-19[SL-AC2-DUP], 16A0477-20[SL-SM1-1 (0-1)], 16A0477-21[SL-SM1-1 (9-10)], 16A0477-22[SL-SM1-2 (0-1)], 16A0477-24[SL-SM1-DUP]

H-03

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:

Hexavalent Chromium

16A0477-12[EB-1], 16A0477-25[EB-2]

SW-846 7471B

Qualifications:

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Mercury

B139883-BS1, B139883-BSD1

SW-846 8260B

Qualifications:

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L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Acetone

16A0477-07[SL-AC1-4 (19-20)], 16A0477-08[SL-AC1-4 (34-35)], 16A0477-09[SL-AC1-3 (19-20)], 16A0477-10[SL-AC1-3 (39-40)], 16A0477-11[SL-AC1-3-DUP], 16A0477-13[SL-AC1-2 (15-20)], 16A0477-14[SL-AC1-2 (35-38)], 16A0477-15[SL-AC1-1 (10-15)], 16A0477-16[SL-AC1-1 (35-40)], B139950-BLK1, B139950-BS1, B139950-BSD1

Bromomethane

16A0477-07[SL-AC1-4 (19-20)], 16A0477-08[SL-AC1-4 (34-35)], 16A0477-09[SL-AC1-3 (19-20)], 16A0477-10[SL-AC1-3 (39-40)], 16A0477-11[SL-AC1-3-DUP], 16A0477-13[SL-AC1-2 (15-20)], 16A0477-14[SL-AC1-2 (35-38)], 16A0477-15[SL-AC1-1 (10-15)], 16A0477-16[SL-AC1-1 (35-40)], B139950-BLK1, B139950-BS1, B139950-BSD1

Carbon Disulfide

16A0477-07[SL-AC1-4 (19-20)], 16A0477-08[SL-AC1-4 (34-35)], 16A0477-09[SL-AC1-3 (19-20)], 16A0477-10[SL-AC1-3 (39-40)], 16A0477-11[SL-AC1-3-DUP], 16A0477-13[SL-AC1-2 (15-20)], 16A0477-14[SL-AC1-2 (35-38)], 16A0477-15[SL-AC1-1 (10-15)], 16A0477-16[SL-AC1-1 (35-40)], B139950-BLK1, B139950-BS1, B139950-BSD1

Chloromethane

16A0477-07[SL-AC1-4 (19-20)], 16A0477-08[SL-AC1-4 (34-35)], 16A0477-09[SL-AC1-3 (19-20)], 16A0477-10[SL-AC1-3 (39-40)], 16A0477-11[SL-AC1-3-DUP], 16A0477-13[SL-AC1-2 (15-20)], 16A0477-14[SL-AC1-2 (35-38)], 16A0477-15[SL-AC1-1 (10-15)], 16A0477-16[SL-AC1-1 (35-40)], B139950-BLK1, B139950-BS1, B139950-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,1,1-Trichloroethane

B139950-BSD1

Bromochloromethane

B140156-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

trans-1,4-Dichloro-2-butene

B139950-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

trans-1,4-Dichloro-2-butene

16A0477-07[SL-AC1-4 (19-20)], 16A0477-08[SL-AC1-4 (34-35)], 16A0477-09[SL-AC1-3 (19-20)], 16A0477-10[SL-AC1-3 (39-40)], 16A0477-11[SL-AC1-3-DUP], 16A0477-13[SL-AC1-2 (15-20)], 16A0477-14[SL-AC1-2 (35-38)], 16A0477-15[SL-AC1-1 (10-15)], 16A0477-16[SL-AC1-1 (35-40)], B139950-BLK1, B139950-BS1, B139950-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DB

16A0477-12[EB-1], 16A0477-25[EB-2], 16A0477-26[FB-1], 16A0477-27[TB-1], 16A0477-28[TB-2], B140156-BLK1, B140156-BS1, B140156-BSD1

1,4-Dioxane

16A0477-12[EB-1], 16A0477-25[EB-2], 16A0477-26[FB-1], 16A0477-27[TB-1], 16A0477-28[TB-2], B140156-BLK1, B140156-BS1, B140156-BSD1

trans-1,4-Dichloro-2-butene

16A0477-07[SL-AC1-4 (19-20)], 16A0477-08[SL-AC1-4 (34-35)], 16A0477-09[SL-AC1-3 (19-20)], 16A0477-10[SL-AC1-3 (39-40)], 16A0477-11[SL-AC1-3-DUP], 16A0477-13[SL-AC1-2 (15-20)], 16A0477-14[SL-AC1-2 (35-38)], 16A0477-15[SL-AC1-1 (10-15)], 16A0477-16[SL-AC1-1 (35-40)], B139950-BLK1, B139950-BS1, B139950-BSD1

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The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Johanna K. Harrington
Manager, Laboratory Reporting

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-4 (0-1)
Sampled: 1/7/2016 10:45

Sample ID: 16A0477-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	28	0.59	0.28	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 14:48	AME

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-4 (0-1) | Sampled: 1/7/2016 10:45

Sample ID: 16A0477-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.40	0.22	mg/Kg dry	2	DL-03	SW-846 7196A	1/20/16	1/21/16 11:30	LL
% Solids	79.5			% Wt	1		SM 2540G	1/14/16	1/15/16 11:07	WAL

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-4 (9-10)
Sampled: 1/7/2016 10:48

Sample ID: 16A0477-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	30	0.56	0.26	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 14:52	AME

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-4 (9-10) | Sampled: 1/7/2016 10:48

Sample ID: 16A0477-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.37	0.20	mg/Kg dry	2	DL-03	SW-846 7196A	1/20/16	1/21/16 11:30	LL
% Solids	85.7			% Wt	1		SM 2540G	1/14/16	1/15/16 11:07	WAL

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-3 (0-1)
Sampled: 1/7/2016 11:02

Sample ID: 16A0477-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	13	0.61	0.29	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 14:57	AME

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-3 (0-1) | Sampled: 1/7/2016 11:02

Sample ID: 16A0477-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	0.64	0.97	0.53	mg/Kg dry	5	DL-03, J	SW-846 7196A	1/20/16	1/21/16 11:30	LL
% Solids	79.8			% Wt	1		SM 2540G	1/14/16	1/15/16 11:07	WAL

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-3 (9-10) | Sampled: 1/7/2016 11:04

Sample ID: 16A0477-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	26	0.56	0.26	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:01	AME

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-3 (9-10)
Sampled: 1/7/2016 11:04

Sample ID: 16A0477-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.93	0.51	mg/Kg dry	5	DL-03	SW-846 7196A	1/20/16	1/21/16 11:30	LL
% Solids	84.9			% Wt	1		SM 2540G	1/14/16	1/15/16 11:07	WAL

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-2 (0-1)
Sampled: 1/7/2016 11:12

Sample ID: 16A0477-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	16	0.62	0.29	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:05	AME

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-2 (0-1) | Sampled: 1/7/2016 11:12

Sample ID: 16A0477-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	1.1	0.58	mg/Kg dry	5	DL-03	SW-846 7196A	1/20/16	1/21/16 11:30	LL
% Solids	74.3			% Wt	1		SM 2540G	1/14/16	1/15/16 11:07	WAL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-2 (9-10)
Sampled: 1/7/2016 11:14

Sample ID: 16A0477-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	17	0.63	0.30	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:10	AME

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-2 (9-10)
Sampled: 1/7/2016 11:14

Sample ID: 16A0477-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	1.0	0.56	mg/Kg dry	5	DL-03	SW-846 7196A	1/20/16	1/21/16 11:30	LL
% Solids	78.5			% Wt	1		SM 2540G	1/14/16	1/15/16 11:07	WAL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: SL-AC1-4 (19-20)
Sampled: 1/7/2016 14:55
Sample ID: 16A0477-07
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Acrylonitrile	ND	0.0061	0.0025	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Benzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Bromobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Bromodichloromethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 21:46	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	0.021	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
n-Butylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
sec-Butylbenzene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
tert-Butylbenzene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Carbon Disulfide	ND	0.010	0.0035	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Carbon Tetrachloride	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Chlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Chlorodibromomethane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Chloroform	ND	0.0040	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Chloromethane	ND	0.010	0.00091	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 21:46	MFF
2-Chlorotoluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
4-Chlorotoluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Dibromomethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	0.0012	mg/Kg dry	1	R-05, V-05	SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,1-Dichloroethane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,3-Dichloropropane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
2,2-Dichloropropane	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,1-Dichloropropene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Diethyl Ether	ND	0.020	0.0018	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-4 (19-20) | Sampled: 1/7/2016 14:55

Sample ID: 16A0477-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Ethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Hexachlorobutadiene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00091	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Methylene Chloride	ND	0.020	0.0072	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Naphthalene	ND	0.0040	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
n-Propylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Styrene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0018	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Tetrahydrofuran	ND	0.010	0.0022	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Toluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,3,5-Trichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Trichloroethylene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00091	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF
o-Xylene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 21:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	75.3	70-130		1/15/16 21:46
Toluene-d8	95.6	70-130		1/15/16 21:46
4-Bromofluorobenzene	97.3	70-130		1/15/16 21:46

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-4 (19-20)
Sampled: 1/7/2016 14:55

Sample ID: 16A0477-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.1			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: SL-AC1-4 (34-35)
Sampled: 1/7/2016 14:57
Sample ID: 16A0477-08
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Acrylonitrile	ND	0.0065	0.0027	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Benzene	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Bromobenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Bromochloromethane	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Bromodichloromethane	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Bromoform	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 22:14	MFF
2-Butanone (MEK)	ND	0.043	0.019	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
tert-Butyl Alcohol (TBA)	ND	0.043	0.022	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
n-Butylbenzene	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
sec-Butylbenzene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
tert-Butylbenzene	ND	0.0022	0.00097	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Carbon Disulfide	ND	0.011	0.0038	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Carbon Tetrachloride	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Chlorobenzene	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Chlorodibromomethane	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Chloroethane	ND	0.022	0.0016	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Chloroform	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Chloromethane	ND	0.011	0.00097	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 22:14	MFF
2-Chlorotoluene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
4-Chlorotoluene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Dibromomethane	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	0.0013	mg/Kg dry	1	R-05, V-05	SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,1-Dichloroethane	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,2-Dichloroethane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,1-Dichloroethylene	ND	0.0043	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.00097	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,2-Dichloropropane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,3-Dichloropropane	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
2,2-Dichloropropane	ND	0.0022	0.00097	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,1-Dichloropropene	ND	0.0022	0.00097	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Diethyl Ether	ND	0.022	0.0019	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-4 (34-35) | Sampled: 1/7/2016 14:57

Sample ID: 16A0477-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,4-Dioxane	ND	0.11	0.062	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Ethylbenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Hexachlorobutadiene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
2-Hexanone (MBK)	ND	0.022	0.012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00097	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Methylene Chloride	ND	0.022	0.0076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Naphthalene	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
n-Propylbenzene	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Styrene	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	0.0019	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.0022	0.00097	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Tetrachloroethylene	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Tetrahydrofuran	ND	0.011	0.0024	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Toluene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,3,5-Trichlorobenzene	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Trichloroethylene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,2,3-Trichloropropane	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00097	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,2,4-Trimethylbenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
1,3,5-Trimethylbenzene	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
m+p Xylene	ND	0.0043	0.0018	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF
o-Xylene	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	78.6	70-130		1/15/16 22:14
Toluene-d8	96.4	70-130		1/15/16 22:14
4-Bromofluorobenzene	97.2	70-130		1/15/16 22:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-4 (34-35) | Sampled: 1/7/2016 14:57

Sample ID: 16A0477-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.8			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: SL-AC1-3 (19-20)
Sampled: 1/7/2016 15:30
Sample ID: 16A0477-09
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.027	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Acrylonitrile	ND	0.0070	0.0029	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Benzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Bromobenzene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Bromodichloromethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 22:43	MFF
2-Butanone (MEK)	ND	0.047	0.020	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	0.024	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
n-Butylbenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
sec-Butylbenzene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
tert-Butylbenzene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Carbon Disulfide	ND	0.012	0.0041	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Carbon Tetrachloride	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Chlorobenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Chlorodibromomethane	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Chloroethane	ND	0.023	0.0018	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Chloroform	ND	0.0047	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 22:43	MFF
2-Chlorotoluene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
4-Chlorotoluene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Dibromomethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
trans-1,4-Dichloro-2-butene	ND	0.0047	0.0014	mg/Kg dry	1	R-05, V-05	SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,1-Dichloroethane	0.0010	0.0023	0.00082	mg/Kg dry	1	J	SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,1-Dichloroethylene	0.0022	0.0047	0.0013	mg/Kg dry	1	J	SW-846 8260B	1/15/16	1/15/16 22:43	MFF
cis-1,2-Dichloroethylene	0.035	0.0023	0.00094	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,3-Dichloropropane	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
2,2-Dichloropropane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,1-Dichloropropene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Diethyl Ether	ND	0.023	0.0021	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: SL-AC1-3 (19-20)
Sampled: 1/7/2016 15:30
Sample ID: 16A0477-09
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,4-Dioxane	ND	0.12	0.067	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Ethylbenzene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Hexachlorobutadiene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Methylene Chloride	ND	0.023	0.0083	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0089	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Naphthalene	ND	0.0047	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
n-Propylbenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Styrene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0021	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,1,2,2-Tetrachloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Tetrahydrofuran	ND	0.012	0.0026	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Toluene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,3,5-Trichlorobenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Trichloroethylene	0.0044	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
m+p Xylene	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF
o-Xylene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 22:43	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	77.9	70-130		1/15/16 22:43
Toluene-d8	97.3	70-130		1/15/16 22:43
4-Bromofluorobenzene	96.4	70-130		1/15/16 22:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-3 (19-20) | Sampled: 1/7/2016 15:30

Sample ID: 16A0477-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.5			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: SL-AC1-3 (39-40)
Sampled: 1/7/2016 16:10
Sample ID: 16A0477-10
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.097	0.023	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Acrylonitrile	ND	0.0058	0.0024	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Benzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Bromobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Bromochloromethane	ND	0.0019	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Bromodichloromethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Bromoform	ND	0.0019	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Bromomethane	ND	0.0097	0.0016	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 23:11	MFF
2-Butanone (MEK)	ND	0.039	0.017	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
tert-Butyl Alcohol (TBA)	ND	0.039	0.020	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
n-Butylbenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
sec-Butylbenzene	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
tert-Butylbenzene	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00097	0.00058	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Carbon Disulfide	ND	0.0097	0.0034	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Carbon Tetrachloride	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Chlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Chlorodibromomethane	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Chloroethane	ND	0.019	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Chloroform	ND	0.0039	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Chloromethane	ND	0.0097	0.00087	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 23:11	MFF
2-Chlorotoluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
4-Chlorotoluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,2-Dibromoethane (EDB)	ND	0.00097	0.00097	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Dibromomethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
trans-1,4-Dichloro-2-butene	ND	0.0039	0.0012	mg/Kg dry	1	R-05, V-05	SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,1-Dichloroethane	0.0012	0.0019	0.00068	mg/Kg dry	1	J	SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,2-Dichloroethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,1-Dichloroethylene	0.0013	0.0039	0.0011	mg/Kg dry	1	J	SW-846 8260B	1/15/16	1/15/16 23:11	MFF
cis-1,2-Dichloroethylene	0.057	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,2-Dichloropropane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,3-Dichloropropane	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
2,2-Dichloropropane	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,1-Dichloropropene	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
cis-1,3-Dichloropropene	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
trans-1,3-Dichloropropene	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Diethyl Ether	ND	0.019	0.0017	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-3 (39-40) | Sampled: 1/7/2016 16:10

Sample ID: 16A0477-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00097	0.00058	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,4-Dioxane	ND	0.097	0.056	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Ethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Hexachlorobutadiene	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
2-Hexanone (MBK)	ND	0.019	0.011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Methylene Chloride	ND	0.019	0.0069	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Naphthalene	ND	0.0039	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
n-Propylbenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Styrene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	0.0017	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,1,2,2-Tetrachloroethane	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Tetrachloroethylene	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Tetrahydrofuran	ND	0.0097	0.0021	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Toluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,3,5-Trichlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,1,2-Trichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Trichloroethylene	0.0046	0.0019	0.00097	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0097	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,2,3-Trichloropropane	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0097	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,2,4-Trimethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
1,3,5-Trimethylbenzene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
Vinyl Chloride	ND	0.0097	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
m+p Xylene	ND	0.0039	0.0016	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF
o-Xylene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:11	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	78.0	70-130		1/15/16 23:11
Toluene-d8	96.5	70-130		1/15/16 23:11
4-Bromofluorobenzene	96.0	70-130		1/15/16 23:11

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-3 (39-40) | Sampled: 1/7/2016 16:10

Sample ID: 16A0477-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.8			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: SL-AC1-3-DUP
Sampled: 1/7/2016 00:00
Sample ID: 16A0477-11
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Acrylonitrile	ND	0.0063	0.0026	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Benzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Bromobenzene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Bromodichloromethane	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Bromoform	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 23:40	MFF
2-Butanone (MEK)	ND	0.042	0.018	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
tert-Butyl Alcohol (TBA)	ND	0.042	0.022	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
n-Butylbenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
sec-Butylbenzene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
tert-Butylbenzene	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00063	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Carbon Disulfide	ND	0.011	0.0037	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Carbon Tetrachloride	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Chlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Chlorodibromomethane	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Chloroform	ND	0.0042	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Chloromethane	ND	0.011	0.00095	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/15/16 23:40	MFF
2-Chlorotoluene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
4-Chlorotoluene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Dibromomethane	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.0042	0.0013	mg/Kg dry	1	R-05, V-05	SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,1-Dichloroethane	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,1-Dichloroethylene	ND	0.0042	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
cis-1,2-Dichloroethylene	0.016	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,3-Dichloropropane	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
2,2-Dichloropropane	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,1-Dichloropropene	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Diethyl Ether	ND	0.021	0.0019	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: SL-AC1-3-DUP
Sampled: 1/7/2016 00:00
Sample ID: 16A0477-11
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	0.00063	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,4-Dioxane	ND	0.11	0.061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Ethylbenzene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Hexachlorobutadiene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
2-Hexanone (MBK)	ND	0.021	0.011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	0.00095	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Methylene Chloride	ND	0.021	0.0075	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0080	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Naphthalene	ND	0.0042	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
n-Propylbenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Styrene	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	0.0019	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Tetrahydrofuran	ND	0.011	0.0023	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Toluene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,3,5-Trichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,1,1-Trichloroethane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Trichloroethylene	0.0011	0.0021	0.0011	mg/Kg dry	1	J	SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,2,3-Trichloropropane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00095	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
m+p Xylene	ND	0.0042	0.0018	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF
o-Xylene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	1/15/16	1/15/16 23:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	79.1	70-130		1/15/16 23:40
Toluene-d8	97.6	70-130		1/15/16 23:40
4-Bromofluorobenzene	96.8	70-130		1/15/16 23:40

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-3-DUP | Sampled: 1/7/2016 00:00

Sample ID: 16A0477-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.4			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: EB-1 | Sampled: 1/7/2016 16:25

Sample ID: 16A0477-12

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.091	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
tert-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.080	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Carbon Tetrachloride	ND	5.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
2,2-Dichloropropane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: EB-1
Sampled: 1/7/2016 16:25
Sample ID: 16A0477-12
Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,4-Dioxane	ND	50	26	µg/L	1	V-05	SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Hexachlorobutadiene	ND	0.50	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,2,3-Trichloropropane	ND	2.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:15	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		1/19/16 18:15
Toluene-d8	103	70-130		1/19/16 18:15
4-Bromofluorobenzene	101	70-130		1/19/16 18:15

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: EB-1 | Sampled: 1/7/2016 16:25

Sample ID: 16A0477-12

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	0.0078	mg/L	1		SW-846 6010C	1/15/16	1/19/16 16:58	AME
Barium	ND	0.050	0.0063	mg/L	1		SW-846 6010C	1/15/16	1/19/16 16:58	AME
Cadmium	ND	0.0040	0.00070	mg/L	1		SW-846 6010C	1/15/16	1/19/16 16:58	AME
Chromium	ND	0.010	0.00080	mg/L	1		SW-846 6010C	1/15/16	1/19/16 16:58	AME
Lead	ND	0.010	0.0025	mg/L	1		SW-846 6010C	1/15/16	1/19/16 16:58	AME
Mercury	ND	0.00010	0.000019	mg/L	1		SW-846 7470A	1/15/16	1/18/16 15:27	SCB
Nickel	ND	0.010	0.0036	mg/L	1		SW-846 6010C	1/15/16	1/19/16 16:58	AME
Selenium	ND	0.050	0.013	mg/L	1		SW-846 6010C	1/15/16	1/19/16 16:58	AME
Silver	ND	0.0050	0.0029	mg/L	1		SW-846 6010C	1/15/16	1/19/16 16:58	AME

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: EB-1
Sampled: 1/7/2016 16:25

Sample ID: 16A0477-12

Sample Matrix: Equipment Blank Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.0040	0.0020	mg/L	1	H-03	SW-846 7196A	1/14/16	1/14/16 15:45	AMM

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-2 (15-20) | Sampled: 1/11/2016 11:10

Sample ID: 16A0477-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.027	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Acrylonitrile	ND	0.0070	0.0029	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Benzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Bromobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Bromodichloromethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 0:09	MFF
2-Butanone (MEK)	ND	0.047	0.020	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	0.024	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
n-Butylbenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
sec-Butylbenzene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Carbon Disulfide	ND	0.012	0.0041	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Carbon Tetrachloride	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Chlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Chlorodibromomethane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Chloroform	ND	0.0047	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 0:09	MFF
2-Chlorotoluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
4-Chlorotoluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Dibromomethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
trans-1,4-Dichloro-2-butene	ND	0.0047	0.0014	mg/Kg dry	1	R-05, V-05	SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,1-Dichloroethylene	ND	0.0047	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
cis-1,2-Dichloroethylene	0.0025	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,3-Dichloropropane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
2,2-Dichloropropane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Diethyl Ether	ND	0.023	0.0021	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: SL-AC1-2 (15-20)
Sampled: 1/11/2016 11:10
Sample ID: 16A0477-13
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,4-Dioxane	ND	0.12	0.067	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Ethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Hexachlorobutadiene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Methylene Chloride	ND	0.023	0.0083	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0088	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Naphthalene	ND	0.0047	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
n-Propylbenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Styrene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0021	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Tetrahydrofuran	ND	0.012	0.0026	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Toluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,3,5-Trichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Trichloroethylene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
m+p Xylene	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	75.6	70-130		1/16/16 0:09
Toluene-d8	96.0	70-130		1/16/16 0:09
4-Bromofluorobenzene	94.7	70-130		1/16/16 0:09

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-2 (15-20)
Sampled: 1/11/2016 11:10

Sample ID: 16A0477-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.8			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: SL-AC1-2 (35-38)
Sampled: 1/11/2016 11:15
Sample ID: 16A0477-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.027	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Acrylonitrile	ND	0.0070	0.0029	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Benzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Bromobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Bromodichloromethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 0:37	MFF
2-Butanone (MEK)	ND	0.047	0.020	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	0.024	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
n-Butylbenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
sec-Butylbenzene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Carbon Disulfide	ND	0.012	0.0041	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Carbon Tetrachloride	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Chlorobenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Chlorodibromomethane	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Chloroform	ND	0.0047	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 0:37	MFF
2-Chlorotoluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
4-Chlorotoluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Dibromomethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
trans-1,4-Dichloro-2-butene	ND	0.0047	0.0014	mg/Kg dry	1	R-05, V-05	SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,1-Dichloroethane	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,1-Dichloroethylene	0.0024	0.0047	0.0013	mg/Kg dry	1	J	SW-846 8260B	1/15/16	1/16/16 0:37	MFF
cis-1,2-Dichloroethylene	0.015	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,3-Dichloropropane	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
2,2-Dichloropropane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Diethyl Ether	ND	0.023	0.0021	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: SL-AC1-2 (35-38)
Sampled: 1/11/2016 11:15
Sample ID: 16A0477-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,4-Dioxane	ND	0.12	0.067	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Ethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Hexachlorobutadiene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Methylene Chloride	ND	0.023	0.0083	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0089	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Naphthalene	ND	0.0047	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
n-Propylbenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Styrene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0021	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,1,2,2-Tetrachloroethane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Tetrahydrofuran	ND	0.012	0.0026	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Toluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,3,5-Trichlorobenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Trichloroethylene	0.0018	0.0023	0.0012	mg/Kg dry	1	J	SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
m+p Xylene	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF
o-Xylene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 0:37	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	76.6	70-130		1/16/16 0:37
Toluene-d8	95.3	70-130		1/16/16 0:37
4-Bromofluorobenzene	96.5	70-130		1/16/16 0:37

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-2 (35-38) | Sampled: 1/11/2016 11:15

Sample ID: 16A0477-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.2			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-1 (10-15) | Sampled: 1/11/2016 12:10

Sample ID: 16A0477-15

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Acrylonitrile	ND	0.0061	0.0025	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Benzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Bromobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Bromodichloromethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 1:06	MFF
2-Butanone (MEK)	ND	0.041	0.018	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
tert-Butyl Alcohol (TBA)	ND	0.041	0.021	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
n-Butylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
sec-Butylbenzene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
tert-Butylbenzene	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Carbon Disulfide	ND	0.010	0.0036	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Carbon Tetrachloride	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Chlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Chlorodibromomethane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Chloroform	ND	0.0041	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Chloromethane	ND	0.010	0.00092	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 1:06	MFF
2-Chlorotoluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
4-Chlorotoluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Dibromomethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	0.0012	mg/Kg dry	1	R-05, V-05	SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,1-Dichloroethane	0.0030	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,1-Dichloroethylene	0.0092	0.0041	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
cis-1,2-Dichloroethylene	0.10	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,3-Dichloropropane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
2,2-Dichloropropane	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,1-Dichloropropene	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Diethyl Ether	ND	0.020	0.0018	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: SL-AC1-1 (10-15)
Sampled: 1/11/2016 12:10
Sample ID: 16A0477-15
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,4-Dioxane	0.22	0.10	0.059	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Ethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Hexachlorobutadiene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00092	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Methylene Chloride	ND	0.020	0.0072	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Naphthalene	ND	0.0041	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
n-Propylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Styrene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0018	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Tetrahydrofuran	ND	0.010	0.0022	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Toluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,3,5-Trichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Trichloroethylene	0.033	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00092	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
Vinyl Chloride	0.0022	0.010	0.0011	mg/Kg dry	1	J	SW-846 8260B	1/15/16	1/16/16 1:06	MFF
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF
o-Xylene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	76.6	70-130		1/16/16 1:06
Toluene-d8	96.8	70-130		1/16/16 1:06
4-Bromofluorobenzene	96.2	70-130		1/16/16 1:06

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-1 (10-15) | Sampled: 1/11/2016 12:10

Sample ID: 16A0477-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	19	0.64	0.30	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:30	AME

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-1 (10-15)
Sampled: 1/11/2016 12:10

Sample ID: 16A0477-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	1.1	0.59	mg/Kg dry	5	DL-03	SW-846 7196A	1/20/16	1/21/16 11:30	LL
% Solids	73.6			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: SL-AC1-1 (35-40)
Sampled: 1/11/2016 12:20
Sample ID: 16A0477-16
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.026	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Acrylonitrile	ND	0.0065	0.0027	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Benzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Bromobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Bromochloromethane	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Bromodichloromethane	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Bromoform	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 1:34	MFF
2-Butanone (MEK)	ND	0.044	0.019	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
tert-Butyl Alcohol (TBA)	ND	0.044	0.023	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
n-Butylbenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
sec-Butylbenzene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
tert-Butylbenzene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Carbon Disulfide	ND	0.011	0.0038	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Carbon Tetrachloride	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Chlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Chlorodibromomethane	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Chloroethane	ND	0.022	0.0016	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Chloroform	ND	0.0044	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Chloromethane	ND	0.011	0.00098	mg/Kg dry	1	L-04	SW-846 8260B	1/15/16	1/16/16 1:34	MFF
2-Chlorotoluene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
4-Chlorotoluene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Dibromomethane	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
trans-1,4-Dichloro-2-butene	ND	0.0044	0.0013	mg/Kg dry	1	R-05, V-05	SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,1-Dichloroethane	0.00081	0.0022	0.00076	mg/Kg dry	1	J	SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,2-Dichloroethane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,1-Dichloroethylene	0.0053	0.0044	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
cis-1,2-Dichloroethylene	0.016	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,2-Dichloropropane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,3-Dichloropropane	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
2,2-Dichloropropane	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,1-Dichloropropene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Diethyl Ether	ND	0.022	0.0020	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-1 (35-40) | Sampled: 1/11/2016 12:20

Sample ID: 16A0477-16

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,4-Dioxane	ND	0.11	0.063	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Ethylbenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Hexachlorobutadiene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
2-Hexanone (MBK)	ND	0.022	0.012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0044	0.00098	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Methylene Chloride	ND	0.022	0.0077	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0083	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Naphthalene	ND	0.0044	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
n-Propylbenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Styrene	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	0.0020	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Tetrachloroethylene	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Tetrahydrofuran	ND	0.011	0.0024	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Toluene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,3,5-Trichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Trichloroethylene	0.011	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,2,3-Trichloropropane	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00098	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,2,4-Trimethylbenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
1,3,5-Trimethylbenzene	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
m+p Xylene	ND	0.0044	0.0019	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF
o-Xylene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	1/15/16	1/16/16 1:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	79.3	70-130		1/16/16 1:34
Toluene-d8	96.0	70-130		1/16/16 1:34
4-Bromofluorobenzene	96.3	70-130		1/16/16 1:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-1 (35-40)
Sampled: 1/11/2016 12:20

Sample ID: 16A0477-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	7.2	0.65	0.30	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:34	AME

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC1-1 (35-40)
Sampled: 1/11/2016 12:20

Sample ID: 16A0477-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.41	0.23	mg/Kg dry	2	DL-03	SW-846 7196A	1/20/16	1/21/16 11:30	LL
% Solids	77.7			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-1 (0-0.5) | Sampled: 1/7/2016 14:05

Sample ID: 16A0477-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	34	0.54	0.25	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:40	AME

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-1 (0-0.5) | Sampled: 1/7/2016 14:05

Sample ID: 16A0477-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	0.71	0.37	0.21	mg/Kg dry	2	DL-03	SW-846 7196A	1/20/16	1/21/16 11:30	LL
% Solids	84.8			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-1 (4.5-5.0) | Sampled: 1/7/2016 14:10

Sample ID: 16A0477-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	14	0.60	0.28	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:45	AME

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-1 (4.5-5.0) | Sampled: 1/7/2016 14:10

Sample ID: 16A0477-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	1.0	0.55	mg/Kg dry	5	DL-03	SW-846 7196A	1/20/16	1/21/16 11:30	LL
% Solids	77.3			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-DUP
Sampled: 1/7/2016 00:00

Sample ID: 16A0477-19

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	35	0.59	0.28	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:49	AME

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-AC2-DUP
Sampled: 1/7/2016 00:00

Sample ID: 16A0477-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	0.96	0.38	0.21	mg/Kg dry	2	DL-03	SW-846 7196A	1/20/16	1/21/16 11:30	LL
% Solids	82.4			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-SM1-1 (0-1) | Sampled: 1/12/2016 14:30

Sample ID: 16A0477-20

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.1	0.56	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:54	AME
Barium	130	3.1	0.95	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:54	AME
Cadmium	ND	0.31	0.14	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:54	AME
Chromium	25	0.61	0.29	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:54	AME
Lead	13	0.92	0.32	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:54	AME
Mercury	0.043	0.031	0.0051	mg/Kg dry	1		SW-846 7471B	1/15/16	1/19/16 14:59	SCB
Nickel	9.9	0.61	0.18	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:54	AME
Selenium	ND	6.1	0.94	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:54	AME
Silver	ND	0.61	0.48	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:54	AME

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-SM1-1 (0-1) | Sampled: 1/12/2016 14:30

Sample ID: 16A0477-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.99	0.54	mg/Kg dry	5	DL-03	SW-846 7196A	1/28/16	1/28/16 13:30	LL
% Solids	80.4			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-SM1-1 (9-10)
Sampled: 1/12/2016 14:35

Sample ID: 16A0477-21

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.9	0.53	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:58	AME
Barium	70	2.9	0.89	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:58	AME
Cadmium	ND	0.29	0.13	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:58	AME
Chromium	18	0.57	0.27	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:58	AME
Lead	15	0.86	0.30	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:58	AME
Mercury	0.062	0.030	0.0051	mg/Kg dry	1		SW-846 7471B	1/15/16	1/19/16 15:04	SCB
Nickel	5.1	0.57	0.17	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:58	AME
Selenium	ND	5.7	0.87	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:58	AME
Silver	ND	0.57	0.45	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 15:58	AME

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-SM1-1 (9-10)
Sampled: 1/12/2016 14:35

Sample ID: 16A0477-21

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.99	0.54	mg/Kg dry	5	DL-03	SW-846 7196A	1/28/16	1/28/16 13:30	LL
% Solids	80.8			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-SM1-2 (0-1)
Sampled: 1/12/2016 14:40

Sample ID: 16A0477-22

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.0	0.56	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:03	AME
Barium	120	3.0	0.94	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:03	AME
Cadmium	ND	0.30	0.14	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:03	AME
Chromium	17	0.61	0.29	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:03	AME
Lead	12	0.91	0.32	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:03	AME
Mercury	0.025	0.031	0.0053	mg/Kg dry	1	J	SW-846 7471B	1/15/16	1/19/16 15:05	SCB
Nickel	6.2	0.61	0.18	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:03	AME
Selenium	ND	6.1	0.93	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:03	AME
Silver	ND	0.61	0.48	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:03	AME

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-SM1-2 (0-1)
Sampled: 1/12/2016 14:40

Sample ID: 16A0477-22

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	1.0	0.57	mg/Kg dry	5	DL-03	SW-846 7196A	1/28/16	1/28/16 13:30	LL
% Solids	76.2			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-SM1-2 (9-10)
Sampled: 1/12/2016 14:45

Sample ID: 16A0477-23

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.0	0.56	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:07	AME
Barium	80	3.0	0.94	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:07	AME
Cadmium	ND	0.30	0.14	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:07	AME
Chromium	27	0.60	0.28	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:07	AME
Lead	14	0.91	0.32	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:07	AME
Mercury	0.075	0.030	0.0051	mg/Kg dry	1		SW-846 7471B	1/15/16	1/19/16 15:07	SCB
Nickel	6.3	0.60	0.18	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:07	AME
Selenium	ND	6.0	0.92	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:07	AME
Silver	ND	0.60	0.48	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:07	AME

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-SM1-2 (9-10)
Sampled: 1/12/2016 14:45

Sample ID: 16A0477-23

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	2.7	1.0	0.57	mg/Kg dry	5		SW-846 7196A	1/28/16	1/28/16 13:30	LL
% Solids	77.4			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-SM1-DUP | Sampled: 1/12/2016 00:00

Sample ID: 16A0477-24

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.9	0.54	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:11	AME
Barium	110	2.9	0.91	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:11	AME
Cadmium	ND	0.29	0.13	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:11	AME
Chromium	23	0.58	0.27	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:11	AME
Lead	15	0.88	0.31	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:11	AME
Mercury	0.042	0.028	0.0047	mg/Kg dry	1		SW-846 7471B	1/15/16	1/19/16 15:08	SCB
Nickel	9.1	0.58	0.17	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:11	AME
Selenium	ND	5.8	0.89	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:11	AME
Silver	ND	0.58	0.46	mg/Kg dry	1		SW-846 6010C	1/15/16	1/18/16 16:11	AME

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Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: SL-SM1-DUP
Sampled: 1/12/2016 00:00

Sample ID: 16A0477-24

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.96	0.53	mg/Kg dry	5	DL-03	SW-846 7196A	1/28/16	1/28/16 13:30	LL
% Solids	80.8			% Wt	1		SM 2540G	1/15/16	1/16/16 11:27	MJR

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Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: EB-2 | Sampled: 1/12/2016 15:15

Sample ID: 16A0477-25

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.091	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
tert-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.080	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Carbon Tetrachloride	ND	5.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
2,2-Dichloropropane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: EB-2
Sampled: 1/12/2016 15:15
Sample ID: 16A0477-25
Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,4-Dioxane	ND	50	26	µg/L	1	V-05	SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Hexachlorobutadiene	ND	0.50	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,2,3-Trichloropropane	ND	2.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 18:42	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.7	70-130		1/19/16 18:42
Toluene-d8	100	70-130		1/19/16 18:42
4-Bromofluorobenzene	100	70-130		1/19/16 18:42

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: EB-2 | Sampled: 1/12/2016 15:15

Sample ID: 16A0477-25

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	0.0078	mg/L	1		SW-846 6010C	1/15/16	1/19/16 17:02	AME
Barium	ND	0.050	0.0063	mg/L	1		SW-846 6010C	1/15/16	1/19/16 17:02	AME
Cadmium	ND	0.0040	0.00070	mg/L	1		SW-846 6010C	1/15/16	1/19/16 17:02	AME
Chromium	ND	0.010	0.00080	mg/L	1		SW-846 6010C	1/15/16	1/19/16 17:02	AME
Lead	ND	0.010	0.0025	mg/L	1		SW-846 6010C	1/15/16	1/19/16 17:02	AME
Mercury	ND	0.00010	0.000019	mg/L	1		SW-846 7470A	1/15/16	1/18/16 15:29	SCB
Nickel	ND	0.010	0.0036	mg/L	1		SW-846 6010C	1/15/16	1/19/16 17:02	AME
Selenium	ND	0.050	0.013	mg/L	1		SW-846 6010C	1/15/16	1/19/16 17:02	AME
Silver	ND	0.0050	0.0029	mg/L	1		SW-846 6010C	1/15/16	1/19/16 17:02	AME

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: EB-2
Sampled: 1/12/2016 15:15

Sample ID: 16A0477-25

Sample Matrix: Equipment Blank Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.0040	0.0020	mg/L	1	H-03	SW-846 7196A	1/14/16	1/14/16 15:45	AMM

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: FB-1
Sampled: 1/12/2016 15:20
Sample ID: 16A0477-26
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.091	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
tert-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.080	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Carbon Tetrachloride	ND	5.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
2,2-Dichloropropane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: FB-1
Sampled: 1/12/2016 15:20
Sample ID: 16A0477-26
Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,4-Dioxane	ND	50	26	µg/L	1	V-05	SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Hexachlorobutadiene	ND	0.50	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,2,3-Trichloropropane	ND	2.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:09	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.5	70-130		1/19/16 19:09
Toluene-d8	101	70-130		1/19/16 19:09
4-Bromofluorobenzene	102	70-130		1/19/16 19:09

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: TB-1
Sampled: 1/12/2016 00:00

Sample ID: 16A0477-27

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.091	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
tert-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.080	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Carbon Tetrachloride	ND	5.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
2,2-Dichloropropane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company
Sample Description:
Work Order: 16A0477
Date Received: 1/13/2016
Field Sample #: TB-1
Sampled: 1/12/2016 00:00
Sample ID: 16A0477-27
Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,4-Dioxane	ND	50	26	µg/L	1	V-05	SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Hexachlorobutadiene	ND	0.50	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,2,3-Trichloropropane	ND	2.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 19:35	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		1/19/16 19:35
Toluene-d8	101	70-130		1/19/16 19:35
4-Bromofluorobenzene	102	70-130		1/19/16 19:35

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: TB-2 | Sampled: 1/12/2016 00:00

Sample ID: 16A0477-28

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.091	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
tert-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.080	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Carbon Tetrachloride	ND	5.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
2,2-Dichloropropane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Petty Machine Company | Sample Description: | Work Order: 16A0477

Date Received: 1/13/2016

Field Sample #: TB-2 | Sampled: 1/12/2016 00:00

Sample ID: 16A0477-28

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,4-Dioxane	ND	50	26	µg/L	1	V-05	SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Hexachlorobutadiene	ND	0.50	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,2,3-Trichloropropane	ND	2.0	0.19	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/16	1/19/16 20:01	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.8	70-130		1/19/16 20:01
Toluene-d8	103	70-130		1/19/16 20:01
4-Bromofluorobenzene	99.7	70-130		1/19/16 20:01

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
16A0477-01 [SL-AC2-4 (0-1)]	B139855	01/14/16
16A0477-02 [SL-AC2-4 (9-10)]	B139855	01/14/16
16A0477-03 [SL-AC2-3 (0-1)]	B139855	01/14/16
16A0477-04 [SL-AC2-3 (9-10)]	B139855	01/14/16
16A0477-05 [SL-AC2-2 (0-1)]	B139855	01/14/16
16A0477-06 [SL-AC2-2 (9-10)]	B139855	01/14/16

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
16A0477-07 [SL-AC1-4 (19-20)]	B139944	01/15/16
16A0477-08 [SL-AC1-4 (34-35)]	B139944	01/15/16
16A0477-09 [SL-AC1-3 (19-20)]	B139944	01/15/16
16A0477-10 [SL-AC1-3 (39-40)]	B139944	01/15/16
16A0477-11 [SL-AC1-3-DUP]	B139944	01/15/16
16A0477-13 [SL-AC1-2 (15-20)]	B139944	01/15/16
16A0477-14 [SL-AC1-2 (35-38)]	B139944	01/15/16
16A0477-15 [SL-AC1-1 (10-15)]	B139944	01/15/16
16A0477-16 [SL-AC1-1 (35-40)]	B139944	01/15/16
16A0477-17 [SL-AC2-1 (0-0.5)]	B139944	01/15/16
16A0477-18 [SL-AC2-1 (4.5-5.0)]	B139944	01/15/16
16A0477-19 [SL-AC2-DUP]	B139944	01/15/16
16A0477-20 [SL-SM1-1 (0-1)]	B139944	01/15/16
16A0477-21 [SL-SM1-1 (9-10)]	B139944	01/15/16
16A0477-22 [SL-SM1-2 (0-1)]	B139944	01/15/16
16A0477-23 [SL-SM1-2 (9-10)]	B139944	01/15/16
16A0477-24 [SL-SM1-DUP]	B139944	01/15/16

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16A0477-01 [SL-AC2-4 (0-1)]	B139956	1.06	50.0	01/15/16
16A0477-02 [SL-AC2-4 (9-10)]	B139956	1.04	50.0	01/15/16
16A0477-03 [SL-AC2-3 (0-1)]	B139956	1.03	50.0	01/15/16
16A0477-04 [SL-AC2-3 (9-10)]	B139956	1.05	50.0	01/15/16
16A0477-05 [SL-AC2-2 (0-1)]	B139956	1.08	50.0	01/15/16
16A0477-06 [SL-AC2-2 (9-10)]	B139956	1.01	50.0	01/15/16
16A0477-15 [SL-AC1-1 (10-15)]	B139956	1.07	50.0	01/15/16
16A0477-16 [SL-AC1-1 (35-40)]	B139956	0.998	50.0	01/15/16
16A0477-17 [SL-AC2-1 (0-0.5)]	B139956	1.10	50.0	01/15/16
16A0477-18 [SL-AC2-1 (4.5-5.0)]	B139956	1.08	50.0	01/15/16
16A0477-19 [SL-AC2-DUP]	B139956	1.02	50.0	01/15/16
16A0477-20 [SL-SM1-1 (0-1)]	B139956	1.01	50.0	01/15/16
16A0477-21 [SL-SM1-1 (9-10)]	B139956	1.08	50.0	01/15/16
16A0477-22 [SL-SM1-2 (0-1)]	B139956	1.08	50.0	01/15/16
16A0477-23 [SL-SM1-2 (9-10)]	B139956	1.07	50.0	01/15/16
16A0477-24 [SL-SM1-DUP]	B139956	1.06	50.0	01/15/16

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date

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Sample Extraction Data

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16A0477-12 [EB-1]	B139915	50.0	50.0	01/15/16
16A0477-25 [EB-2]	B139915	50.0	50.0	01/15/16

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16A0477-01 [SL-AC2-4 (0-1)]	B140217	2.54	100	01/20/16
16A0477-02 [SL-AC2-4 (9-10)]	B140217	2.55	100	01/20/16
16A0477-03 [SL-AC2-3 (0-1)]	B140217	2.58	100	01/20/16
16A0477-04 [SL-AC2-3 (9-10)]	B140217	2.53	100	01/20/16
16A0477-05 [SL-AC2-2 (0-1)]	B140217	2.55	100	01/20/16
16A0477-06 [SL-AC2-2 (9-10)]	B140217	2.52	100	01/20/16
16A0477-15 [SL-AC1-1 (10-15)]	B140217	2.53	100	01/20/16
16A0477-16 [SL-AC1-1 (35-40)]	B140217	2.50	100	01/20/16
16A0477-17 [SL-AC2-1 (0-0.5)]	B140217	2.52	100	01/20/16
16A0477-18 [SL-AC2-1 (4.5-5.0)]	B140217	2.58	100	01/20/16
16A0477-19 [SL-AC2-DUP]	B140217	2.52	100	01/20/16

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16A0477-20 [SL-SM1-1 (0-1)]	B140684	2.52	100	01/28/16
16A0477-21 [SL-SM1-1 (9-10)]	B140684	2.50	100	01/28/16
16A0477-22 [SL-SM1-2 (0-1)]	B140684	2.53	100	01/28/16
16A0477-23 [SL-SM1-2 (9-10)]	B140684	2.50	100	01/28/16
16A0477-24 [SL-SM1-DUP]	B140684	2.58	100	01/28/16

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16A0477-12 [EB-1]	B139952	50.0	50.0	01/14/16
16A0477-25 [EB-2]	B139952	50.0	50.0	01/14/16

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16A0477-12 [EB-1]	B139947	6.00	6.00	01/15/16
16A0477-25 [EB-2]	B139947	6.00	6.00	01/15/16

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16A0477-20 [SL-SM1-1 (0-1)]	B139883	0.611	50.0	01/15/16
16A0477-21 [SL-SM1-1 (9-10)]	B139883	0.615	50.0	01/15/16
16A0477-22 [SL-SM1-2 (0-1)]	B139883	0.629	50.0	01/15/16
16A0477-23 [SL-SM1-2 (9-10)]	B139883	0.640	50.0	01/15/16
16A0477-24 [SL-SM1-DUP]	B139883	0.665	50.0	01/15/16

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Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16A0477-07 [SL-AC1-4 (19-20)]	B139950	6.19	10.0	01/15/16
16A0477-08 [SL-AC1-4 (34-35)]	B139950	6.30	10.0	01/15/16
16A0477-09 [SL-AC1-3 (19-20)]	B139950	5.98	10.0	01/15/16
16A0477-10 [SL-AC1-3 (39-40)]	B139950	6.56	10.0	01/15/16
16A0477-11 [SL-AC1-3-DUP]	B139950	6.05	10.0	01/15/16
16A0477-13 [SL-AC1-2 (15-20)]	B139950	5.60	10.0	01/15/16
16A0477-14 [SL-AC1-2 (35-38)]	B139950	6.02	10.0	01/15/16
16A0477-15 [SL-AC1-1 (10-15)]	B139950	6.68	10.0	01/15/16
16A0477-16 [SL-AC1-1 (35-40)]	B139950	5.90	10.0	01/15/16

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16A0477-12 [EB-1]	B140156	5	5.00	01/19/16
16A0477-25 [EB-2]	B140156	5	5.00	01/19/16
16A0477-26 [FB-1]	B140156	5	5.00	01/19/16
16A0477-27 [TB-1]	B140156	5	5.00	01/19/16
16A0477-28 [TB-2]	B140156	5	5.00	01/19/16

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B139950 - SW-846 5035										
Blank (B139950-BLK1)				Prepared & Analyzed: 01/15/16						
Acetone	ND	0.10	mg/Kg wet							L-04
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							L-04
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.010	mg/Kg wet							L-04
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							R-05, V-05
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B139950 - SW-846 5035												
Blank (B139950-BLK1)				Prepared & Analyzed: 01/15/16								
Methylene Chloride	ND	0.020	mg/Kg wet									
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet									
Naphthalene	ND	0.0040	mg/Kg wet									
n-Propylbenzene	ND	0.0020	mg/Kg wet									
Styrene	ND	0.0020	mg/Kg wet									
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet									
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/Kg wet									
Tetrachloroethylene	ND	0.0020	mg/Kg wet									
Tetrahydrofuran	ND	0.010	mg/Kg wet									
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0384*		mg/Kg wet	0.0500		76.7		70-130				
Surrogate: Toluene-d8	*0.0484*		mg/Kg wet	0.0500		96.8		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0481*		mg/Kg wet	0.0500		96.2		70-130				
LCS (B139950-BS1)				Prepared & Analyzed: 01/15/16								
Acetone	0.130	0.10	mg/Kg wet	0.200		**65.2**	*	70-160			L-04	†
Acrylonitrile	0.0181	0.0060	mg/Kg wet	0.0200		90.4		70-130				
tert-Amyl Methyl Ether (TAME)	0.0182	0.0010	mg/Kg wet	0.0200		91.1		70-130				
Benzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
Bromobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130				
Bromochloromethane	0.0186	0.0020	mg/Kg wet	0.0200		93.1		70-130				
Bromodichloromethane	0.0184	0.0020	mg/Kg wet	0.0200		92.0		70-130				
Bromoform	0.0246	0.0020	mg/Kg wet	0.0200		123		70-130				
Bromomethane	0.00608	0.010	mg/Kg wet	0.0200		**30.4**	*	40-130			L-04, J	†
2-Butanone (MEK)	0.161	0.040	mg/Kg wet	0.200		80.6		70-160				†
tert-Butyl Alcohol (TBA)	0.186	0.040	mg/Kg wet	0.200		93.2		40-130				†
n-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107		70-130				
sec-Butylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		115		70-130				
tert-Butylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0186	0.0010	mg/Kg wet	0.0200		92.8		70-130				
Carbon Disulfide	0.0109	0.010	mg/Kg wet	0.0200		**54.5**	*	70-130			L-04	
Carbon Tetrachloride	0.0176	0.0020	mg/Kg wet	0.0200		88.2		70-130				
Chlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		112		70-130				
Chlorodibromomethane	0.0198	0.0010	mg/Kg wet	0.0200		98.8		70-130				
Chloroethane	0.0152	0.020	mg/Kg wet	0.0200		75.9		70-130			J	
Chloroform	0.0189	0.0040	mg/Kg wet	0.0200		94.7		70-130				
Chloromethane	0.0120	0.010	mg/Kg wet	0.0200		**59.9**	*	70-130			L-04	
2-Chlorotoluene	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B139950 - SW-846 5035											
LCS (B139950-BS1)				Prepared & Analyzed: 01/15/16							
4-Chlorotoluene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130				
1,2-Dibromoethane (EDB)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130				
Dibromomethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130				
1,2-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130				
1,3-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130				
1,4-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130				
trans-1,4-Dichloro-2-butene	0.0171	0.0040	mg/Kg wet	0.0200		85.5	70-130			R-05, V-05	
Dichlorodifluoromethane (Freon 12)	0.00998	0.020	mg/Kg wet	0.0200		49.9	40-160			J	†
1,1-Dichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130				
1,2-Dichloroethane	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130				
1,1-Dichloroethylene	0.0166	0.0040	mg/Kg wet	0.0200		83.0	70-130				
cis-1,2-Dichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130				
trans-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130				
1,2-Dichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130				
1,3-Dichloropropane	0.0187	0.0010	mg/Kg wet	0.0200		93.7	70-130				
2,2-Dichloropropane	0.0170	0.0020	mg/Kg wet	0.0200		85.2	70-130				
1,1-Dichloropropene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130				
cis-1,3-Dichloropropene	0.0174	0.0010	mg/Kg wet	0.0200		87.2	70-130				
trans-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.0200		95.1	70-130				
Diethyl Ether	0.0168	0.020	mg/Kg wet	0.0200		84.2	70-130			J	
Diisopropyl Ether (DIPE)	0.0183	0.0010	mg/Kg wet	0.0200		91.6	70-130				
1,4-Dioxane	0.206	0.10	mg/Kg wet	0.200		103	40-160				†
Ethylbenzene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130				
Hexachlorobutadiene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-160				
2-Hexanone (MBK)	0.165	0.020	mg/Kg wet	0.200		82.5	70-160				†
Isopropylbenzene (Cumene)	0.0241	0.0020	mg/Kg wet	0.0200		120	70-130				
p-Isopropyltoluene (p-Cymene)	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0181	0.0040	mg/Kg wet	0.0200		90.6	70-130				
Methylene Chloride	0.0148	0.020	mg/Kg wet	0.0200		73.9	40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.176	0.020	mg/Kg wet	0.200		87.8	70-160				†
Naphthalene	0.0209	0.0040	mg/Kg wet	0.0200		104	40-130				†
n-Propylbenzene	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130				
Styrene	0.0246	0.0020	mg/Kg wet	0.0200		123	70-130				
1,1,1,2-Tetrachloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130				
1,1,2,2-Tetrachloroethane	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130				
Tetrachloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130				
Tetrahydrofuran	0.0175	0.010	mg/Kg wet	0.0200		87.5	70-130				
Toluene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130				
1,2,3-Trichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130				
1,2,4-Trichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130				
1,3,5-Trichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130				
1,1,1-Trichloroethane	0.0148	0.0020	mg/Kg wet	0.0200		73.9	70-130				
1,1,2-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130				
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130				
Trichlorofluoromethane (Freon 11)	0.0162	0.010	mg/Kg wet	0.0200		81.0	70-130				
1,2,3-Trichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0182	0.010	mg/Kg wet	0.0200		90.9	70-130				
1,2,4-Trimethylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130				
1,3,5-Trimethylbenzene	0.0242	0.0020	mg/Kg wet	0.0200		121	70-130				
Vinyl Chloride	0.0116	0.010	mg/Kg wet	0.0200		57.8	40-130				†

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B139950 - SW-846 5035													
LCS (B139950-BS1)				Prepared & Analyzed: 01/15/16									
m+p Xylene	0.0447	0.0040	mg/Kg wet	0.0400		112		70-130					
o-Xylene	0.0224	0.0020	mg/Kg wet	0.0200		112		70-130					
Surrogate: 1,2-Dichloroethane-d4	*0.0385*		mg/Kg wet	0.0500		77.0		70-130					
Surrogate: Toluene-d8	*0.0470*		mg/Kg wet	0.0500		94.0		70-130					
Surrogate: 4-Bromofluorobenzene	*0.0479*		mg/Kg wet	0.0500		95.8		70-130					
LCS Dup (B139950-BSD1)				Prepared & Analyzed: 01/15/16									
Acetone	0.117	0.10	mg/Kg wet	0.200		**58.6**	*	70-160	10.7		25	L-04	†
Acrylonitrile	0.0167	0.0060	mg/Kg wet	0.0200		83.7		70-130	7.70		25		
tert-Amyl Methyl Ether (TAME)	0.0167	0.0010	mg/Kg wet	0.0200		83.4		70-130	8.83		25		
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130	5.81		25		
Bromobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130	5.95		25		
Bromochloromethane	0.0169	0.0020	mg/Kg wet	0.0200		84.3		70-130	9.92		25		
Bromodichloromethane	0.0168	0.0020	mg/Kg wet	0.0200		84.1		70-130	8.97		25		
Bromoform	0.0231	0.0020	mg/Kg wet	0.0200		116		70-130	6.04		25		
Bromomethane	0.00628	0.010	mg/Kg wet	0.0200		**31.4**	*	40-130	3.24		25	L-04, J	†
2-Butanone (MEK)	0.144	0.040	mg/Kg wet	0.200		72.1		70-160	11.1		25		†
tert-Butyl Alcohol (TBA)	0.166	0.040	mg/Kg wet	0.200		82.8		40-130	11.8		25		†
n-Butylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130	4.38		25		
sec-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130	5.37		25		
tert-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-160	5.45		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0172	0.0010	mg/Kg wet	0.0200		86.1		70-130	7.49		25		
Carbon Disulfide	0.0106	0.010	mg/Kg wet	0.0200		**53.1**	*	70-130	2.60		25	L-04	
Carbon Tetrachloride	0.0160	0.0020	mg/Kg wet	0.0200		80.1		70-130	9.63		25		
Chlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		107		70-130	5.20		25		
Chlorodibromomethane	0.0186	0.0010	mg/Kg wet	0.0200		92.9		70-130	6.16		25		
Chloroethane	0.0174	0.020	mg/Kg wet	0.0200		87.1		70-130	13.7		25	J	
Chloroform	0.0179	0.0040	mg/Kg wet	0.0200		89.6		70-130	5.53		25		
Chloromethane	0.0121	0.010	mg/Kg wet	0.0200		**60.3**	*	70-130	0.666		25	L-04	
2-Chlorotoluene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130	7.12		25		
4-Chlorotoluene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130	5.12		25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0155	0.0020	mg/Kg wet	0.0200		77.6		70-130	13.9		25		
1,2-Dibromoethane (EDB)	0.0194	0.0010	mg/Kg wet	0.0200		96.9		70-130	9.81		25		
Dibromomethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6		70-130	8.89		25		
1,2-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130	4.74		25		
1,3-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130	5.32		25		
1,4-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130	4.53		25		
trans-1,4-Dichloro-2-butene	0.0123	0.0040	mg/Kg wet	0.0200		**61.7**	*	70-130	**32.3**	*	25	L-07A, R-05, V-05	
Dichlorodifluoromethane (Freon 12)	0.00882	0.020	mg/Kg wet	0.0200		44.1		40-160	12.3		25	J	†
1,1-Dichloroethane	0.0186	0.0020	mg/Kg wet	0.0200		92.9		70-130	5.75		25		
1,2-Dichloroethane	0.0166	0.0020	mg/Kg wet	0.0200		83.2		70-130	6.62		25		
1,1-Dichloroethylene	0.0152	0.0040	mg/Kg wet	0.0200		76.2		70-130	8.54		25		
cis-1,2-Dichloroethylene	0.0165	0.0020	mg/Kg wet	0.0200		82.6		70-130	7.23		25		
trans-1,2-Dichloroethylene	0.0172	0.0020	mg/Kg wet	0.0200		86.2		70-130	6.73		25		
1,2-Dichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.3		70-130	6.79		25		
1,3-Dichloropropane	0.0171	0.0010	mg/Kg wet	0.0200		85.6		70-130	9.04		25		
2,2-Dichloropropane	0.0155	0.0020	mg/Kg wet	0.0200		77.4		70-130	9.59		25		
1,1-Dichloropropene	0.0178	0.0020	mg/Kg wet	0.0200		89.1		70-130	5.25		25		
cis-1,3-Dichloropropene	0.0153	0.0010	mg/Kg wet	0.0200		76.3		70-130	13.3		25		
trans-1,3-Dichloropropene	0.0161	0.0010	mg/Kg wet	0.0200		80.7		70-130	16.4		25		
Diethyl Ether	0.0159	0.020	mg/Kg wet	0.0200		79.7		70-130	5.49		25	J	
Diisopropyl Ether (DIPE)	0.0172	0.0010	mg/Kg wet	0.0200		85.8		70-130	6.54		25		

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B139950 - SW-846 5035												
LCS Dup (B139950-BSD1)				Prepared & Analyzed: 01/15/16								
1,4-Dioxane	0.181	0.10	mg/Kg wet	0.200		90.6		40-160	12.7	50		† ‡
Ethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108		70-130	6.56	25		
Hexachlorobutadiene	0.0224	0.0020	mg/Kg wet	0.0200		112		70-160	5.04	25		
2-Hexanone (MBK)	0.146	0.020	mg/Kg wet	0.200		73.1		70-160	12.1	25		†
Isopropylbenzene (Cumene)	0.0225	0.0020	mg/Kg wet	0.0200		113		70-130	6.61	25		
p-Isopropyltoluene (p-Cymene)	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	5.81	25		
Methyl tert-Butyl Ether (MTBE)	0.0170	0.0040	mg/Kg wet	0.0200		84.9		70-130	6.50	25		
Methylene Chloride	0.0141	0.020	mg/Kg wet	0.0200		70.5		40-160	4.71	25	J	†
4-Methyl-2-pentanone (MIBK)	0.161	0.020	mg/Kg wet	0.200		80.4		70-160	8.84	25		†
Naphthalene	0.0196	0.0040	mg/Kg wet	0.0200		98.2		40-130	6.12	25		†
n-Propylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130	5.42	25		
Styrene	0.0231	0.0020	mg/Kg wet	0.0200		116		70-130	6.13	25		
1,1,1,2-Tetrachloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.7		70-130	4.65	25		
1,1,2,2-Tetrachloroethane	0.0157	0.0020	mg/Kg wet	0.0200		78.4		70-130	14.2	25		
Tetrachloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.2		70-130	6.78	25		
Tetrahydrofuran	0.0165	0.010	mg/Kg wet	0.0200		82.3		70-130	6.12	25		
Toluene	0.0185	0.0020	mg/Kg wet	0.0200		92.7		70-130	5.66	25		
1,2,3-Trichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130	2.97	25		
1,2,4-Trichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130	3.35	25		
1,3,5-Trichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	2.55	25		
1,1,1-Trichloroethane	0.0136	0.0020	mg/Kg wet	0.0200		**68.1**	*	70-130	8.17	25	L-07	
1,1,2-Trichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		94.8		70-130	5.74	25		
Trichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	2.45	25		
Trichlorofluoromethane (Freon 11)	0.0155	0.010	mg/Kg wet	0.0200		77.3		70-130	4.67	25		
1,2,3-Trichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.4		70-130	2.03	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0169	0.010	mg/Kg wet	0.0200		84.4		70-130	7.42	25		
1,2,4-Trimethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	5.59	25		
1,3,5-Trimethylbenzene	0.0228	0.0020	mg/Kg wet	0.0200		114		70-130	5.87	25		
Vinyl Chloride	0.0141	0.010	mg/Kg wet	0.0200		70.5		40-130	19.8	25		†
m+p Xylene	0.0423	0.0040	mg/Kg wet	0.0400		106		70-130	5.66	25		
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130	5.78	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0382*		mg/Kg wet	0.0500		76.4		70-130				
Surrogate: Toluene-d8	*0.0473*		mg/Kg wet	0.0500		94.7		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0480*		mg/Kg wet	0.0500		95.9		70-130				
Batch B140156 - SW-846 5030B												
Blank (B140156-BLK1)				Prepared & Analyzed: 01/19/16								
Acetone	ND	50	µg/L									
Acrylonitrile	ND	5.0	µg/L									
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L									
Benzene	ND	1.0	µg/L									
Bromobenzene	ND	1.0	µg/L									
Bromochloromethane	ND	1.0	µg/L									
Bromodichloromethane	ND	0.50	µg/L									
Bromoform	ND	1.0	µg/L									
Bromomethane	ND	2.0	µg/L									
2-Butanone (MEK)	ND	20	µg/L									
tert-Butyl Alcohol (TBA)	ND	20	µg/L									
n-Butylbenzene	ND	1.0	µg/L									
sec-Butylbenzene	ND	1.0	µg/L									
tert-Butylbenzene	ND	1.0	µg/L									

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B140156 - SW-846 5030B										
Blank (B140156-BLK1)				Prepared & Analyzed: 01/19/16						
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-05
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B140156 - SW-846 5030B										
Blank (B140156-BLK1)				Prepared & Analyzed: 01/19/16						
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.7*		µg/L	25.0		98.8	70-130			
Surrogate: Toluene-d8	*25.9*		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130			
LCS (B140156-BS1)				Prepared & Analyzed: 01/19/16						
Acetone	71.6	50	µg/L	100		71.6	70-160			†
Acrylonitrile	9.22	5.0	µg/L	10.0		92.2	70-130			
tert-Amyl Methyl Ether (TAME)	9.89	0.50	µg/L	10.0		98.9	70-130			
Benzene	10.3	1.0	µg/L	10.0		103	70-130			
Bromobenzene	10.9	1.0	µg/L	10.0		109	70-130			
Bromochloromethane	12.6	1.0	µg/L	10.0		126	70-130			
Bromodichloromethane	9.28	0.50	µg/L	10.0		92.8	70-130			
Bromoform	8.29	1.0	µg/L	10.0		82.9	70-130			
Bromomethane	7.82	2.0	µg/L	10.0		78.2	40-160			†
2-Butanone (MEK)	80.2	20	µg/L	100		80.2	40-160			†
tert-Butyl Alcohol (TBA)	78.6	20	µg/L	100		78.6	40-160			†
n-Butylbenzene	9.20	1.0	µg/L	10.0		92.0	70-130			
sec-Butylbenzene	9.42	1.0	µg/L	10.0		94.2	70-130			
tert-Butylbenzene	9.34	1.0	µg/L	10.0		93.4	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.5	0.50	µg/L	10.0		105	70-130			
Carbon Disulfide	8.82	4.0	µg/L	10.0		88.2	70-130			
Carbon Tetrachloride	9.46	5.0	µg/L	10.0		94.6	70-130			
Chlorobenzene	9.89	1.0	µg/L	10.0		98.9	70-130			
Chlorodibromomethane	9.31	0.50	µg/L	10.0		93.1	70-130			
Chloroethane	12.3	2.0	µg/L	10.0		123	70-130			
Chloroform	10.1	2.0	µg/L	10.0		101	70-130			
Chloromethane	9.59	2.0	µg/L	10.0		95.9	40-160			†
2-Chlorotoluene	9.74	1.0	µg/L	10.0		97.4	70-130			
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.24	5.0	µg/L	10.0		72.4	70-130			V-05
1,2-Dibromoethane (EDB)	9.84	0.50	µg/L	10.0		98.4	70-130			
Dibromomethane	10.7	1.0	µg/L	10.0		107	70-130			
1,2-Dichlorobenzene	9.47	1.0	µg/L	10.0		94.7	70-130			
1,3-Dichlorobenzene	9.92	1.0	µg/L	10.0		99.2	70-130			
1,4-Dichlorobenzene	9.65	1.0	µg/L	10.0		96.5	70-130			
trans-1,4-Dichloro-2-butene	7.56	2.0	µg/L	10.0		75.6	70-130			
Dichlorodifluoromethane (Freon 12)	7.10	2.0	µg/L	10.0		71.0	40-160			†
1,1-Dichloroethane	10.7	1.0	µg/L	10.0		107	70-130			
1,2-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B140156 - SW-846 5030B											
LCS (B140156-BS1)				Prepared & Analyzed: 01/19/16							
1,2-Dichloropropane	10.9	1.0	µg/L	10.0		109	70-130				
1,3-Dichloropropane	10.5	0.50	µg/L	10.0		105	70-130				
2,2-Dichloropropane	9.39	1.0	µg/L	10.0		93.9	40-130				†
1,1-Dichloropropene	9.96	2.0	µg/L	10.0		99.6	70-130				
cis-1,3-Dichloropropene	9.42	0.50	µg/L	10.0		94.2	70-130				
trans-1,3-Dichloropropene	9.80	0.50	µg/L	10.0		98.0	70-130				
Diethyl Ether	11.4	2.0	µg/L	10.0		114	70-130				
Diisopropyl Ether (DIPE)	10.3	0.50	µg/L	10.0		103	70-130				
1,4-Dioxane	46.1	50	µg/L	100		46.1	40-130			V-05, J	†
Ethylbenzene	10.3	1.0	µg/L	10.0		103	70-130				
Hexachlorobutadiene	7.97	0.50	µg/L	10.0		79.7	70-130				
2-Hexanone (MBK)	87.9	10	µg/L	100		87.9	70-160				†
Isopropylbenzene (Cumene)	9.97	1.0	µg/L	10.0		99.7	70-130				
p-Isopropyltoluene (p-Cymene)	9.95	1.0	µg/L	10.0		99.5	70-130				
Methyl tert-Butyl Ether (MTBE)	9.90	1.0	µg/L	10.0		99.0	70-130				
Methylene Chloride	10.5	5.0	µg/L	10.0		105	70-130				
4-Methyl-2-pentanone (MIBK)	96.2	10	µg/L	100		96.2	70-160				†
Naphthalene	8.73	2.0	µg/L	10.0		87.3	40-130				†
n-Propylbenzene	10.0	1.0	µg/L	10.0		100	70-130				
Styrene	10.7	1.0	µg/L	10.0		107	70-130				
1,1,1,2-Tetrachloroethane	10.0	1.0	µg/L	10.0		100	70-130				
1,1,2,2-Tetrachloroethane	9.98	0.50	µg/L	10.0		99.8	70-130				
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105	70-130				
Tetrahydrofuran	10.1	10	µg/L	10.0		101	70-130				
Toluene	10.6	1.0	µg/L	10.0		106	70-130				
1,2,3-Trichlorobenzene	8.59	5.0	µg/L	10.0		85.9	70-130				
1,2,4-Trichlorobenzene	9.23	1.0	µg/L	10.0		92.3	70-130				
1,3,5-Trichlorobenzene	8.45	1.0	µg/L	10.0		84.5	70-130				
1,1,1-Trichloroethane	9.18	1.0	µg/L	10.0		91.8	70-130				
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130				
Trichloroethylene	10.5	1.0	µg/L	10.0		105	70-130				
Trichlorofluoromethane (Freon 11)	9.12	2.0	µg/L	10.0		91.2	70-130				
1,2,3-Trichloropropane	9.80	2.0	µg/L	10.0		98.0	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	1.0	µg/L	10.0		102	70-130				
1,2,4-Trimethylbenzene	9.91	1.0	µg/L	10.0		99.1	70-130				
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130				
Vinyl Chloride	8.95	2.0	µg/L	10.0		89.5	40-160				†
m+p Xylene	20.2	2.0	µg/L	20.0		101	70-130				
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	*25.3*		µg/L	25.0		101	70-130				
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		101	70-130				
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.0		101	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B140156 - SW-846 5030B												
LCS Dup (B140156-BSD1)				Prepared & Analyzed: 01/19/16								
Acetone	73.0	50	µg/L	100		73.0		70-160	1.87	25		†
Acrylonitrile	10.0	5.0	µg/L	10.0		100		70-130	8.42	25		
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.0		100		70-130	1.60	25		
Benzene	10.6	1.0	µg/L	10.0		106		70-130	2.58	25		
Bromobenzene	10.9	1.0	µg/L	10.0		109		70-130	0.00	25		
Bromochloromethane	13.2	1.0	µg/L	10.0		**132**	*	70-130	4.95	25	L-07	
Bromodichloromethane	9.26	0.50	µg/L	10.0		92.6		70-130	0.216	25		
Bromoform	8.58	1.0	µg/L	10.0		85.8		70-130	3.44	25		
Bromomethane	8.37	2.0	µg/L	10.0		83.7		40-160	6.79	25		†
2-Butanone (MEK)	83.1	20	µg/L	100		83.1		40-160	3.54	25		†
tert-Butyl Alcohol (TBA)	76.9	20	µg/L	100		76.9		40-160	2.15	25		†
n-Butylbenzene	8.92	1.0	µg/L	10.0		89.2		70-130	3.09	25		
sec-Butylbenzene	9.17	1.0	µg/L	10.0		91.7		70-130	2.69	25		
tert-Butylbenzene	9.10	1.0	µg/L	10.0		91.0		70-130	2.60	25		
tert-Butyl Ethyl Ether (TBEE)	10.7	0.50	µg/L	10.0		107		70-130	2.45	25		
Carbon Disulfide	8.61	4.0	µg/L	10.0		86.1		70-130	2.41	25		
Carbon Tetrachloride	9.30	5.0	µg/L	10.0		93.0		70-130	1.71	25		
Chlorobenzene	9.88	1.0	µg/L	10.0		98.8		70-130	0.101	25		
Chlorodibromomethane	9.20	0.50	µg/L	10.0		92.0		70-130	1.19	25		
Chloroethane	12.3	2.0	µg/L	10.0		123		70-130	0.243	25		
Chloroform	10.2	2.0	µg/L	10.0		102		70-130	1.08	25		
Chloromethane	10.4	2.0	µg/L	10.0		104		40-160	7.91	25		†
2-Chlorotoluene	9.87	1.0	µg/L	10.0		98.7		70-130	1.33	25		
4-Chlorotoluene	10.0	1.0	µg/L	10.0		100		70-130	0.596	25		
1,2-Dibromo-3-chloropropane (DBCP)	7.61	5.0	µg/L	10.0		76.1		70-130	4.98	25	V-05	
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102		70-130	3.79	25		
Dibromomethane	10.5	1.0	µg/L	10.0		105		70-130	1.69	25		
1,2-Dichlorobenzene	9.64	1.0	µg/L	10.0		96.4		70-130	1.78	25		
1,3-Dichlorobenzene	9.62	1.0	µg/L	10.0		96.2		70-130	3.07	25		
1,4-Dichlorobenzene	9.65	1.0	µg/L	10.0		96.5		70-130	0.00	25		
trans-1,4-Dichloro-2-butene	7.73	2.0	µg/L	10.0		77.3		70-130	2.22	25		
Dichlorodifluoromethane (Freon 12)	6.51	2.0	µg/L	10.0		65.1		40-160	8.67	25		†
1,1-Dichloroethane	10.8	1.0	µg/L	10.0		108		70-130	0.653	25		
1,2-Dichloroethane	10.2	1.0	µg/L	10.0		102		70-130	0.491	25		
1,1-Dichloroethylene	10.1	1.0	µg/L	10.0		101		70-130	1.77	25		
cis-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106		70-130	0.760	25		
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100		70-130	0.596	25		
1,2-Dichloropropane	10.7	1.0	µg/L	10.0		107		70-130	1.48	25		
1,3-Dichloropropane	10.9	0.50	µg/L	10.0		109		70-130	3.36	25		
2,2-Dichloropropane	9.19	1.0	µg/L	10.0		91.9		40-130	2.15	25		†
1,1-Dichloropropene	10.1	2.0	µg/L	10.0		101		70-130	1.10	25		
cis-1,3-Dichloropropene	9.44	0.50	µg/L	10.0		94.4		70-130	0.212	25		
trans-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100		70-130	2.22	25		
Diethyl Ether	11.9	2.0	µg/L	10.0		119		70-130	4.45	25		
Diisopropyl Ether (DIPE)	10.5	0.50	µg/L	10.0		105		70-130	2.31	25		
1,4-Dioxane	52.4	50	µg/L	100		52.4		40-130	12.9	50	V-05	† ‡
Ethylbenzene	10.3	1.0	µg/L	10.0		103		70-130	0.292	25		
Hexachlorobutadiene	8.04	0.50	µg/L	10.0		80.4		70-130	0.874	25		
2-Hexanone (MBK)	91.4	10	µg/L	100		91.4		70-160	3.86	25		†
Isopropylbenzene (Cumene)	9.82	1.0	µg/L	10.0		98.2		70-130	1.52	25		
p-Isopropyltoluene (p-Cymene)	9.80	1.0	µg/L	10.0		98.0		70-130	1.52	25		
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102		70-130	2.49	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B140156 - SW-846 5030B											
LCS Dup (B140156-BSD1)				Prepared & Analyzed: 01/19/16							
Methylene Chloride	11.3	5.0	µg/L	10.0		113	70-130	7.98	25		
4-Methyl-2-pentanone (MIBK)	98.4	10	µg/L	100		98.4	70-160	2.30	25		†
Naphthalene	9.46	2.0	µg/L	10.0		94.6	40-130	8.03	25		†
n-Propylbenzene	9.87	1.0	µg/L	10.0		98.7	70-130	1.81	25		
Styrene	10.7	1.0	µg/L	10.0		107	70-130	0.0938	25		
1,1,1,2-Tetrachloroethane	10.0	1.0	µg/L	10.0		100	70-130	0.0996	25		
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102	70-130	2.67	25		
Tetrachloroethylene	10.0	1.0	µg/L	10.0		100	70-130	4.78	25		
Tetrahydrofuran	9.79	10	µg/L	10.0		97.9	70-130	3.31	25	J	
Toluene	10.4	1.0	µg/L	10.0		104	70-130	2.67	25		
1,2,3-Trichlorobenzene	9.15	5.0	µg/L	10.0		91.5	70-130	6.31	25		
1,2,4-Trichlorobenzene	9.65	1.0	µg/L	10.0		96.5	70-130	4.45	25		
1,3,5-Trichlorobenzene	8.57	1.0	µg/L	10.0		85.7	70-130	1.41	25		
1,1,1-Trichloroethane	9.18	1.0	µg/L	10.0		91.8	70-130	0.00	25		
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130	0.00	25		
Trichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	2.02	25		
Trichlorofluoromethane (Freon 11)	8.92	2.0	µg/L	10.0		89.2	70-130	2.22	25		
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.0		102	70-130	4.29	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.60	1.0	µg/L	10.0		96.0	70-130	5.67	25		
1,2,4-Trimethylbenzene	9.84	1.0	µg/L	10.0		98.4	70-130	0.709	25		
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	0.291	25		
Vinyl Chloride	8.67	2.0	µg/L	10.0		86.7	40-160	3.18	25		†
m+p Xylene	20.5	2.0	µg/L	20.0		102	70-130	1.28	25		
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130	1.28	25		
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.0		102	70-130				
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		101	70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		102	70-130				

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B139883 - SW-846 7471												
Blank (B139883-BLK1)				Prepared: 01/15/16 Analyzed: 01/19/16								
Mercury	0.0050	0.025	mg/Kg wet									J
LCS (B139883-BS1)				Prepared: 01/15/16 Analyzed: 01/19/16								
Mercury	10.7	0.84	mg/Kg wet	7.10		**151**	*	73.7-126.3				L-07A
LCS Dup (B139883-BSD1)				Prepared: 01/15/16 Analyzed: 01/19/16								
Mercury	7.33	0.83	mg/Kg wet	7.10		103		73.7-126.3	**37.4**	*	30	L-07A
Batch B139915 - SW-846 3005A												
Blank (B139915-BLK1)				Prepared: 01/15/16 Analyzed: 01/19/16								
Arsenic	ND	0.010	mg/L									
Barium	ND	0.050	mg/L									
Cadmium	0.0014	0.0040	mg/L									J
Chromium	ND	0.010	mg/L									
Lead	0.0067	0.010	mg/L									J
Nickel	ND	0.010	mg/L									
Selenium	ND	0.050	mg/L									
Silver	ND	0.0050	mg/L									
LCS (B139915-BS1)				Prepared: 01/15/16 Analyzed: 01/19/16								
Arsenic	0.485	0.010	mg/L	0.500		97.0		80-120				
Barium	0.488	0.050	mg/L	0.500		97.6		80-120				
Cadmium	0.494	0.0040	mg/L	0.500		98.7		80-120				
Chromium	0.486	0.010	mg/L	0.500		97.3		80-120				
Lead	0.470	0.010	mg/L	0.500		94.0		80-120				
Nickel	0.476	0.010	mg/L	0.500		95.2		80-120				
Selenium	0.486	0.050	mg/L	0.500		97.1		80-120				
Silver	0.481	0.0050	mg/L	0.500		96.3		80-120				
LCS Dup (B139915-BSD1)				Prepared: 01/15/16 Analyzed: 01/19/16								
Arsenic	0.485	0.010	mg/L	0.500		96.9		80-120	0.0322		20	
Barium	0.488	0.050	mg/L	0.500		97.7		80-120	0.0222		20	
Cadmium	0.494	0.0040	mg/L	0.500		98.8		80-120	0.111		20	
Chromium	0.486	0.010	mg/L	0.500		97.2		80-120	0.0549		20	
Lead	0.470	0.010	mg/L	0.500		94.0		80-120	0.0505		20	
Nickel	0.478	0.010	mg/L	0.500		95.7		80-120	0.470		20	
Selenium	0.492	0.050	mg/L	0.500		98.4		80-120	1.28		20	
Silver	0.482	0.0050	mg/L	0.500		96.4		80-120	0.188		20	
Batch B139947 - SW-846 7470A Prep												
Blank (B139947-BLK1)				Prepared: 01/15/16 Analyzed: 01/18/16								
Mercury	ND	0.00010	mg/L									

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B139947 - SW-846 7470A Prep										
LCS (B139947-BS1)				Prepared: 01/15/16 Analyzed: 01/18/16						
Mercury	0.00195	0.00010	mg/L	0.00200		97.4	80-120			
LCS Dup (B139947-BSD1)				Prepared: 01/15/16 Analyzed: 01/18/16						
Mercury	0.00191	0.00010	mg/L	0.00200		95.6	80-120	1.85	20	
Batch B139956 - SW-846 3050B										
Blank (B139956-BLK1)				Prepared: 01/15/16 Analyzed: 01/18/16						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B139956-BS1)				Prepared: 01/15/16 Analyzed: 01/18/16						
Arsenic	91.5	4.9	mg/Kg wet	98.5		92.9	77.8-122.1			
Barium	286	4.9	mg/Kg wet	308		93.0	82-117.4			
Cadmium	138	0.49	mg/Kg wet	146		94.2	81.9-118.2			
Chromium	170	0.98	mg/Kg wet	182		93.3	78.7-120.6			
Lead	116	1.5	mg/Kg wet	130		89.5	82.4-117.8			
Nickel	138	0.98	mg/Kg wet	149		92.6	82.2-117.8			
Selenium	145	9.8	mg/Kg wet	154		94.4	77.1-122.3			
Silver	37.2	0.98	mg/Kg wet	40.9		91.0	74.3-125.4			
LCS Dup (B139956-BSD1)				Prepared: 01/15/16 Analyzed: 01/18/16						
Arsenic	92.0	5.0	mg/Kg wet	98.5		93.4	77.8-122.1	0.540	30	
Barium	286	5.0	mg/Kg wet	308		92.9	82-117.4	0.0422	30	
Cadmium	135	0.50	mg/Kg wet	146		92.6	81.9-118.2	1.76	30	
Chromium	169	1.0	mg/Kg wet	182		92.9	78.7-120.6	0.474	30	
Lead	119	1.5	mg/Kg wet	130		91.3	82.4-117.8	1.95	30	
Nickel	137	1.0	mg/Kg wet	149		92.1	82.2-117.8	0.526	30	
Selenium	145	10	mg/Kg wet	154		94.2	77.1-122.3	0.214	30	
Silver	37.0	1.0	mg/Kg wet	40.9		90.5	74.3-125.4	0.456	30	
Duplicate (B139956-DUP1)		**Source: 16A0477-01**		Prepared: 01/15/16 Analyzed: 01/18/16						
Arsenic	ND	3.1	mg/Kg dry		ND			NC	35	
Barium	323	3.1	mg/Kg dry		351			8.10	35	
Cadmium	ND	0.31	mg/Kg dry		ND			NC	35	
Chromium	26.6	0.62	mg/Kg dry		28.4			6.69	35	
Lead	17.1	0.93	mg/Kg dry		15.9			7.28	35	
Nickel	10.0	0.62	mg/Kg dry		11.0			9.05	35	
Selenium	ND	6.2	mg/Kg dry		ND			NC	35	
Silver	ND	0.62	mg/Kg dry		ND			NC	35	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B139956 - SW-846 3050B											
MRL Check (B139956-MRL1)				Prepared: 01/15/16 Analyzed: 01/18/16							
Lead	0.723	0.71	mg/Kg wet	0.714		101		80-120			
Matrix Spike (B139956-MS1)		**Source: 16A0477-01**		Prepared: 01/15/16 Analyzed: 01/18/16							
Arsenic	5.60	2.9	mg/Kg dry	29.2	ND	**19.2**	*	75-125			MS-07
Barium	391	2.9	mg/Kg dry	29.2	351	**138**	*	75-125			MS-19
Cadmium	26.0	0.29	mg/Kg dry	29.2	ND	89.1		75-125			
Chromium	52.1	0.58	mg/Kg dry	29.2	28.4	81.1		75-125			
Lead	41.4	0.88	mg/Kg dry	29.2	15.9	87.3		75-125			
Nickel	34.2	0.58	mg/Kg dry	29.2	11.0	79.5		75-125			
Selenium	16.4	5.8	mg/Kg dry	29.2	ND	**56.2**	*	75-125			MS-07
Silver	21.6	0.58	mg/Kg dry	29.2	ND	**73.9**	*	75-125			MS-07

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B139952 - SW-846 7196A										
Blank (B139952-BLK1)				Prepared & Analyzed: 01/14/16						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B139952-BS1)				Prepared & Analyzed: 01/14/16						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		100	80-120			
LCS Dup (B139952-BSD1)				Prepared & Analyzed: 01/14/16						
Hexavalent Chromium	0.099	0.0040	mg/L	0.100		98.7	80-120	1.26	20	
Batch B140217 - SW-846 7196A										
Blank (B140217-BLK1)				Prepared: 01/20/16 Analyzed: 01/21/16						
Hexavalent Chromium	ND	0.16	mg/Kg wet							
LCS (B140217-BS1)				Prepared: 01/20/16 Analyzed: 01/21/16						
Hexavalent Chromium	81	2.7	mg/Kg wet	73.3		111	80-120			
LCS Dup (B140217-BSD1)				Prepared: 01/20/16 Analyzed: 01/21/16						
Hexavalent Chromium	76	2.7	mg/Kg wet	73.1		104	80-120	6.45	20	
Batch B140684 - SW-846 7196A										
Blank (B140684-BLK1)				Prepared & Analyzed: 01/28/16						
Hexavalent Chromium	ND	0.16	mg/Kg wet							
LCS (B140684-BS1)				Prepared & Analyzed: 01/28/16						
Hexavalent Chromium	96	4.0	mg/Kg wet	109		87.7	80-120			
LCS Dup (B140684-BSD1)				Prepared & Analyzed: 01/28/16						
Hexavalent Chromium	100	4.0	mg/Kg wet	110		94.5	80-120	7.93	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
H-03	Sample received after recommended holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
SW-846 6010C in Water	
Arsenic	CT,NH,NY,ME,NC,VA,RI
Barium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,NC,ME,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
SW-846 6020A in Soil	
Arsenic	NC,NY,VA,NH
Chromium	NY,NC
Lead	NY,NC
Selenium	NY,VA,NC,NH
Silver	NY,NC
Barium	NC,NY
Cadmium	NC,NY
SW-846 7196A in Soil	
Hexavalent Chromium	NY,CT,NH,NC,ME,VA
SW-846 7196A in Water	
Hexavalent Chromium	CT,NH,NY,NC,ME,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Soil	
Acetone	NC
Acrylonitrile	NC
tert-Amyl Methyl Ether (TAME)	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	NC
sec-Butylbenzene	NC
tert-Butylbenzene	NC
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
2-Chlorotoluene	NC
4-Chlorotoluene	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
trans-1,4-Dichloro-2-butene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,3-Dichloropropane	NC
2,2-Dichloropropane	NC
1,1-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
n-Propylbenzene	NC
Styrene	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
1,1,1,2-Tetrachloroethane	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Tetrahydrofuran	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,3,5-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,2,3-Trichloropropane	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	NC
1,3,5-Trimethylbenzene	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC
SW-846 8260B in Water	
Acetone	NC
Acrylonitrile	NC
tert-Amyl Methyl Ether (TAME)	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	NC
sec-Butylbenzene	NC
tert-Butylbenzene	NC
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
2-Chlorotoluene	NC
4-Chlorotoluene	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
Dibromomethane	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
trans-1,4-Dichloro-2-butene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,3-Dichloropropane	NC
2,2-Dichloropropane	NC
1,1-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
n-Propylbenzene	NC
Styrene	NC
1,1,1,2-Tetrachloroethane	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Tetrahydrofuran	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,3,5-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,2,3-Trichloropropane	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	NC
1,3,5-Trimethylbenzene	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
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http://www.contestlabs.com

39 Spruce Street
East Longmeadow, MA 01028

16A0477

Company Name: S+ME, Inc.
Address: 9751 Southern Pine Blvd
Charlotte, NC
Attention: Al Quarles
Project Location: Petty Machine Company
Sampled By: BRIAN E. WILSON Scott Young

Telephone: 704-523-4726
Project #: 4335-15-109
Client PO#:

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #:
Email:
Format: O PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

Analysis Requested

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	Cr total 6010B	VOCs 8260B														
01	SL-AC2-4 (0-1)		1/7/16 1045		X	S		X															
02	SL-AC2-4 (9-10)		1048					X															
03	SL-AC2-3 (0-1)		1102					X															
04	SL-AC2-3 (9-10)		1104					X															
05	SL-AC2-2 (0-1)		1112					X															
06	SL-AC2-2 (9-10)		1114					X															
07	SL-AC1-4 (19-20)		1455						X														
08	SL-AC1-4 (34-35)		1457						X														
09	SL-AC1-3 (19-20)		1530						X														
10	SL-AC1-3 (39-40)		1610						X														

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Scott Young	1/13/16 / 1000
Received by: (signature)	Date/Time:
[illegible]	1/13/16 1400
Relinquished by: (signature)	Date/Time:
[illegible]	1/13/16 1600
Received by: (signature) 2.0°C	Date/Time:
R. Musee	1/14/16 9:34

Turnaround ††
O 5-Day
O 5-7-Day
O 10-Day
RUSH †
O †24-Hr † 48-Hr
O †72-Hr † 4-Day
† Requires Lab Approval

Detection Limit Requirements
North Carolina
O 2L
O GWPC
O SWSL
O OTHER

Program Information
O DSCA O IHSB Orphaned Landfill
O SWS Landfill O UST O REC
O Other:

NELAC & AIHA Certified
WBE/DBE Certified

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN.
IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
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Email: info@contestlabs.com
http://www.contestlabs.com

39 Spruce Street
East Longmeadow, MA 01028

16A0477

Company Name: S+ME, Inc.
Address: 9751 Southern Pine Blvd.
Charlotte, NC
Attention: Al Quarles
Project Location: Petty Machine Company
Sampled By: Brian E. Wilson Scott Young

Telephone:
Project # 4335-15-109
Client PO#

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #
Email:
Format: O PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

Analysis Requested

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs 8260B	RCRA METALS + Al 6010B 7196A Cr total and VI	
11	SL-AC1-3-DUP		1/7/16		X			X		
12	EB-1		1625		X			X	X	X
13	SL-AC1-2(15-20)		1/11/16 1110		X			X		
14	SL-AC1-2(35-38)		1/11/16 1115		X			X		
15	SL-AC1-1(10-15)		1/11/16 1210		X			X		X
16	SL-AC1-1(35-40)		1/11/16 1220		X			X		X
17	SL-AC2-1(0.0-0.5)		1/11/16 1405		X					X
18	SL-AC2-1(4.5-5.0)		1/11/16 1410		X					X
19	SL-AC2-DUP		1/11/16		X					X
20	SL-SMI-1(0-1)		1/12/16 1430						X	

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Scott Young	1/13/16 1000
Received by: (signature)	Date/Time:
[illegible]	1/13/16 1400
Relinquished by: (signature)	Date/Time:
[illegible]	1/13/16 1600
Received by: (signature)	Date/Time:
K. McGee	1/14/16 9:34

Turnaround ††
O 5-Day
X 5-7-Day
O 10-Day
RUSH †
O †24-Hr r †48-Hr
O †72-Hr r †4-Day
† Requires Lab Approval

Detection Limit Requirements
North Carolina
O 2L
O GWPC
O SWSL
O OTHER

Program Information

O DSCA O IHSB Orphaned Landfill
O SWS Landfill O UST O REC
O Other: _____

NELAC & AIHA Certified
WBE/DBE Certified

# of Containers																			
** Preservation																			
***Container Code																			

Dissolved Metals
O Field Filtered
O Lab to Filter

*****Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN.
IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

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CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
http://www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

16A0477

Company Name: S+ME, Inc
Address: 9751 Southern Pine Blvd. Charlotte, NC
Attention: Al Quarles
Project Location: Petty Machine Company
Sampled By: Scott Young

Telephone:
Project # 4335-15-109
Client PO#

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #
Email:
Format: O PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

Analysis Requested

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs 8260B	RCRA Metals + Na	Cr 6010B & Cr[VI] 7196A total	# of Containers	** Preservation	***Container Code
21	SL-SM1-1(9-10)		1/12/16/1435		X				X				
22	SL-SM1-2(0-1)		1/12/16/1440		X				X				
23	SL-SM1-2(9-10)		1/12/16/1445		X				X				
24	SL-SM1-DUP		1/12/16/—		X				X				
25	FB-2		1/12/16/1515		X			X	X	X			
26	FB-1		1/12/16/1520		X			X					
27	TB-1		1/12/16/—		X			X					
28	TB-2		1/12/16/—		X			X					

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
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M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

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Scott Young	1/13/16 / 1000
Received by: (signature)	Date/Time:
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Relinquished by: (signature)	Date/Time:
[illegible]	1/13/16 1600
Received by: (signature)	Date/Time:
K. McLee	1/14/16 9:34

Turnaround ††
O 5-Day
X 5-7-Day
O 10-Day
RUSH †
O †24-Hr r †48-Hr
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North Carolina
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O OTHER

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FedEx ® Tracking

775409377553

Ship date:
Wed 1/13/2016
CHARLOTTE, NC US

Delivered
Signed for by: L.LUCIA

Actual delivery:
Thu 1/14/2016 9:34 am
EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
1/14/2016 - Thursday		
9:34 am	Delivered	EAST LONGMEADOW, MA
8:09 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
8:02 am	At local FedEx facility	WINDSOR LOCKS, CT
6:50 am	At destination sort facility	EAST GRANBY, CT
5:13 am	Departed FedEx location	INDIANAPOLIS, IN
12:23 am	Arrived at FedEx location	INDIANAPOLIS, IN
1/13/2016 - Wednesday		
9:07 pm	Left FedEx origin facility	CHARLOTTE, NC
3:27 pm	Picked up	CHARLOTTE, NC
2:07 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	775409377553	**Service**	FedEx Priority Overnight
Weight	30 lbs / 13.61 kgs	**Dimensions**	24x14x14 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	30 lbs / 13.61 kgs	**Shipper reference**	80
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Additional Handling Surcharge

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FedEx ® Tracking

775409369647

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Wed 1/13/2016

CHARLOTTE, NC US

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Signed for by: L.LUCIA

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Special handling section	Deliver Weekday, Additional Handling Surcharge		

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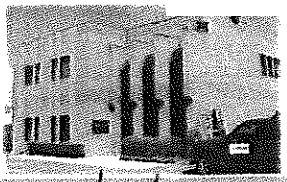

Sample Receipt Checklist

CLIENT NAME: SQME **RECEIVED BY:** KKM **DATE:** 1/14/16

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No No CoC Included
2) **Does the chain agree with the samples?** (Yes) No
   If not, explain:
3) **Are all the samples in good condition?** (Yes) No
   If not, explain:
4) **How were the samples received:**
   On Ice [✓] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [✓]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank 2.0 Temperature °C by Temp gun _____

5) **Are there Dissolved samples for the lab to filter?** Yes (No)
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** (Yes) No
   Who was notified Lucy Date _____ Time _____

7) **Location where samples are stored:** —

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** (Yes) No N/A _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	16
500 mL Amber		4 oz amber/clear jar	7
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic	2	Non-ConTest Container	
40 mL Vial - type listed below	38	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	2

Laboratory Comments:

40 mL vials:			
	# HCl	11	# Methanol 9
	# Bisulfate	18	# DI Water
	# Thiosulfate		Unpreserved

Time and Date Frozen:

Doc# 277
Rev. 4 August 2013

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	KKM F	EB-1 rec'd past hold for hex cr.
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** KKM **Date/Time:** 1/14/16 9:34

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 9, 2016

Scott Young
S&ME Inc. Charlotte, NC
9751 Southern Pine Blvd.
Charlotte, NC 28273

Project Location: Gastonia, NC
Client Job Number:
Project Number: 4335-15-109
Laboratory Work Order Number: 16B0011

Enclosed are results of analyses for samples received by the laboratory on January 28, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

S&ME Inc. Charlotte, NC
9751 Southern Pine Blvd.
Charlotte, NC 28273
ATTN: Scott Young

REPORT DATE: 2/9/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 4335-15-109

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16B0011

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Gastonia, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
EB-3	16B0011-01	Ground Water		SW-846 8260B	
MW-7C	16B0011-02	Ground Water		SW-846 8260B	
DUP	16B0011-03	Ground Water		SW-846 8260B	
Trip Blank	16B0011-04	Trip Blank Water		SW-846 8260B	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

EXECUTIVE SUMMARY

Client ID: **Trip Blank** Lab ID: **16B0011-04**

No Results Detected

Con-Test does not accept liability for the consequences of any actions taken solely on the basis of the information provided in the Executive Summary section of this report. Users must review this report in its entirety to determine data usability and assessment.

con-test® ANALYTICAL LABORATORY
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EXECUTIVE SUMMARY

Client ID: **EB-3** Lab ID: **16B0011-01**

Analyte	Results/Qual		DL	RL	Units	Method
Toluene	0.40	J	0.17	1.0	µg/L	SW-846 8260B

Client ID: **MW-7C** Lab ID: **16B0011-02**

Analyte	Results/Qual	DL	RL	Units	Method
1,1,1-Trichloroethane	12	0.94	10	µg/L	SW-846 8260B
1,1-Dichloroethane	36	1.6	10	µg/L	SW-846 8260B
1,1-Dichloroethylene	840	2.1	10	µg/L	SW-846 8260B
cis-1,2-Dichloroethylene	480	1.5	10	µg/L	SW-846 8260B
Trichloroethylene	310	2.0	10	µg/L	SW-846 8260B

Client ID: **DUP** Lab ID: **16B0011-03**

Analyte	Results/Qual	DL	RL	Units	Method
1,1,1-Trichloroethane	13	0.94	10	µg/L	SW-846 8260B
1,1-Dichloroethane	36	1.6	10	µg/L	SW-846 8260B
1,1-Dichloroethylene	840	2.1	10	µg/L	SW-846 8260B
cis-1,2-Dichloroethylene	490	1.5	10	µg/L	SW-846 8260B
Trichloroethylene	320	2.0	10	µg/L	SW-846 8260B

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260B

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethan
B141647-BS1, B141647-BSD1

Chloroethane
B141647-BS1, B141647-BSD1

Diethyl Ether
B141577-BS1, B141577-BSD1, B141647-BS1, B141647-BSD1

Trichlorofluoromethane (Freon 11)
B141577-BS1, B141577-BSD1, B141647-BS1, B141647-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 1
16B0011-02[MW-7C], 16B0011-03[DUP], 16B0011-04[Trip Blank], B141577-BLK1, B141577-BS1, B141577-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,1,2,2-Tetrachloroethane
B141647-BSD1

Chloroethane
B141577-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

16B0011-02[MW-7C], 16B0011-03[DUP]

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethan
B141577-BS1, B141577-BSD1

Bromomethane
B141577-BS1, B141577-BSD1, B141647-BS1, B141647-BSD1

Diethyl Ether
B141577-BS1, B141577-BSD1, B141647-BS1, B141647-BSD1

Trichlorofluoromethane (Freon 11)
B141577-BS1, B141577-BSD1, B141647-BS1, B141647-BSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Gastonia, NC
Sample Description:
Work Order: 16B0011
Date Received: 1/28/2016
Field Sample #: EB-3
Sampled: 1/27/2016 10:05
Sample ID: 16B0011-01
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.091	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
tert-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.080	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Carbon Tetrachloride	ND	5.0	0.12	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.12	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.18	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
2,2-Dichloropropane	ND	1.0	0.16	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Gastonia, NC
Sample Description:
Work Order: 16B0011
Date Received: 1/28/2016
Field Sample #: EB-3
Sampled: 1/27/2016 10:05
Sample ID: 16B0011-01
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Hexachlorobutadiene	ND	0.50	0.17	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Toluene	0.40	1.0	0.17	µg/L	1	J	SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,2,3-Trichloropropane	ND	2.0	0.19	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.14	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	2/8/16	2/8/16 17:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		2/8/16 17:13
Toluene-d8	97.5	70-130		2/8/16 17:13
4-Bromofluorobenzene	89.0	70-130		2/8/16 17:13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Gastonia, NC
Sample Description:
Work Order: 16B0011

Date Received: 1/28/2016

Field Sample #: MW-7C
Sampled: 1/27/2016 11:30

Sample ID: 16B0011-02

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	49	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Acrylonitrile	ND	50	5.8	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
tert-Amyl Methyl Ether (TAME)	ND	5.0	0.91	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Benzene	ND	10	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Bromobenzene	ND	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Bromochloromethane	ND	10	2.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Bromodichloromethane	ND	5.0	0.88	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Bromoform	ND	10	2.1	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Bromomethane	ND	20	9.4	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
2-Butanone (MEK)	ND	200	24	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
tert-Butyl Alcohol (TBA)	ND	200	22	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
n-Butylbenzene	ND	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
sec-Butylbenzene	ND	10	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
tert-Butylbenzene	ND	10	1.1	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	0.80	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Carbon Disulfide	ND	40	10	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Carbon Tetrachloride	ND	50	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Chlorobenzene	ND	10	1.6	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Chlorodibromomethane	ND	5.0	1.0	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Chloroethane	ND	20	2.8	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Chloroform	ND	20	2.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Chloromethane	ND	20	3.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
2-Chlorotoluene	ND	10	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
4-Chlorotoluene	ND	10	1.4	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	3.4	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Dibromomethane	ND	10	1.6	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,2-Dichlorobenzene	ND	10	1.7	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,3-Dichlorobenzene	ND	10	1.7	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,4-Dichlorobenzene	ND	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
trans-1,4-Dichloro-2-butene	ND	20	3.1	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	1.8	µg/L	10	L-04	SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,1-Dichloroethane	36	10	1.6	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,2-Dichloroethane	ND	10	1.9	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,1-Dichloroethylene	840	10	2.1	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
cis-1,2-Dichloroethylene	480	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
trans-1,2-Dichloroethylene	ND	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,2-Dichloropropane	ND	10	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,3-Dichloropropane	ND	5.0	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
2,2-Dichloropropane	ND	10	1.6	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,1-Dichloropropene	ND	20	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
cis-1,3-Dichloropropene	ND	5.0	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
trans-1,3-Dichloropropene	ND	5.0	1.1	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Diethyl Ether	ND	20	2.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Gastonia, NC
Sample Description:
Work Order: 16B0011
Date Received: 1/28/2016
Field Sample #: MW-7C
Sampled: 1/27/2016 11:30
Sample ID: 16B0011-02
Sample Matrix: Ground Water
Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	1.8	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,4-Dioxane	ND	500	260	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Ethylbenzene	ND	10	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Hexachlorobutadiene	ND	5.0	1.7	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
2-Hexanone (MBK)	ND	100	15	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Isopropylbenzene (Cumene)	ND	10	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	0.90	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Methylene Chloride	ND	50	32	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	15	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Naphthalene	ND	20	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
n-Propylbenzene	ND	10	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Styrene	ND	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,1,1,2-Tetrachloroethane	ND	10	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	1.6	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Tetrachloroethylene	ND	10	1.7	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Tetrahydrofuran	ND	100	11	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Toluene	ND	10	1.7	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,2,3-Trichlorobenzene	ND	50	1.4	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,2,4-Trichlorobenzene	ND	10	1.9	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,3,5-Trichlorobenzene	ND	10	1.7	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,1,1-Trichloroethane	12	10	0.94	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,1,2-Trichloroethane	ND	10	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Trichloroethylene	310	10	2.0	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,2,3-Trichloropropane	ND	20	1.9	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	1.4	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,2,4-Trimethylbenzene	ND	10	1.8	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
1,3,5-Trimethylbenzene	ND	10	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
Vinyl Chloride	ND	20	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
m+p Xylene	ND	20	2.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF
o-Xylene	ND	10	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 19:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		2/5/16 19:55
Toluene-d8	96.0	70-130		2/5/16 19:55
4-Bromofluorobenzene	85.7	70-130		2/5/16 19:55

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Gastonia, NC
Sample Description:
Work Order: 16B0011
Date Received: 1/28/2016
Field Sample #: DUP
Sampled: 1/27/2016 00:00
Sample ID: 16B0011-03
Sample Matrix: Ground Water
Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	49	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Acrylonitrile	ND	50	5.8	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	5.0	0.91	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Benzene	ND	10	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Bromobenzene	ND	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Bromochloromethane	ND	10	2.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Bromodichloromethane	ND	5.0	0.88	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Bromoform	ND	10	2.1	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Bromomethane	ND	20	9.4	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
2-Butanone (MEK)	ND	200	24	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
tert-Butyl Alcohol (TBA)	ND	200	22	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
n-Butylbenzene	ND	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
sec-Butylbenzene	ND	10	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
tert-Butylbenzene	ND	10	1.1	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	0.80	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Carbon Disulfide	ND	40	10	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Carbon Tetrachloride	ND	50	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Chlorobenzene	ND	10	1.6	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Chlorodibromomethane	ND	5.0	1.0	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Chloroethane	ND	20	2.8	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Chloroform	ND	20	2.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Chloromethane	ND	20	3.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
2-Chlorotoluene	ND	10	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
4-Chlorotoluene	ND	10	1.4	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	3.4	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Dibromomethane	ND	10	1.6	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,2-Dichlorobenzene	ND	10	1.7	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,3-Dichlorobenzene	ND	10	1.7	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,4-Dichlorobenzene	ND	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
trans-1,4-Dichloro-2-butene	ND	20	3.1	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	1.8	µg/L	10	L-04	SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,1-Dichloroethane	36	10	1.6	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,2-Dichloroethane	ND	10	1.9	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,1-Dichloroethylene	840	10	2.1	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
cis-1,2-Dichloroethylene	490	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
trans-1,2-Dichloroethylene	ND	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,2-Dichloropropane	ND	10	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,3-Dichloropropane	ND	5.0	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
2,2-Dichloropropane	ND	10	1.6	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,1-Dichloropropene	ND	20	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
cis-1,3-Dichloropropene	ND	5.0	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
trans-1,3-Dichloropropene	ND	5.0	1.1	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Diethyl Ether	ND	20	2.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Gastonia, NC | Sample Description: | Work Order: 16B0011

Date Received: 1/28/2016

Field Sample #: DUP | Sampled: 1/27/2016 00:00

Sample ID: 16B0011-03

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	1.8	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,4-Dioxane	ND	500	260	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Ethylbenzene	ND	10	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Hexachlorobutadiene	ND	5.0	1.7	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
2-Hexanone (MBK)	ND	100	15	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Isopropylbenzene (Cumene)	ND	10	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	0.90	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Methylene Chloride	ND	50	32	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	15	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Naphthalene	ND	20	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
n-Propylbenzene	ND	10	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Styrene	ND	10	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,1,1,2-Tetrachloroethane	ND	10	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	1.6	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Tetrachloroethylene	ND	10	1.7	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Tetrahydrofuran	ND	100	11	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Toluene	ND	10	1.7	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,2,3-Trichlorobenzene	ND	50	1.4	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,2,4-Trichlorobenzene	ND	10	1.9	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,3,5-Trichlorobenzene	ND	10	1.7	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,1,1-Trichloroethane	13	10	0.94	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,1,2-Trichloroethane	ND	10	1.2	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Trichloroethylene	320	10	2.0	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,2,3-Trichloropropane	ND	20	1.9	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	1.4	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,2,4-Trimethylbenzene	ND	10	1.8	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
1,3,5-Trimethylbenzene	ND	10	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
Vinyl Chloride	ND	20	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
m+p Xylene	ND	20	2.5	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF
o-Xylene	ND	10	1.3	µg/L	10		SW-846 8260B	2/5/16	2/5/16 20:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		2/5/16 20:21
Toluene-d8	95.8	70-130		2/5/16 20:21
4-Bromofluorobenzene	86.5	70-130		2/5/16 20:21

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Gastonia, NC
Sample Description:
Work Order: 16B0011
Date Received: 1/28/2016
Field Sample #: Trip Blank
Sampled: 1/27/2016 00:00
Sample ID: 16B0011-04
Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.091	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
tert-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.080	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Carbon Tetrachloride	ND	5.0	0.12	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.12	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.18	µg/L	1	L-04	SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
2,2-Dichloropropane	ND	1.0	0.16	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Gastonia, NC
Sample Description:
Work Order: 16B0011
Date Received: 1/28/2016
Field Sample #: Trip Blank
Sampled: 1/27/2016 00:00
Sample ID: 16B0011-04
Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Hexachlorobutadiene	ND	0.50	0.17	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,2,3-Trichloropropane	ND	2.0	0.19	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.14	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	2/5/16	2/5/16 18:11	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		2/5/16 18:11
Toluene-d8	96.2	70-130		2/5/16 18:11
4-Bromofluorobenzene	83.2	70-130		2/5/16 18:11

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16B0011-02 [MW-7C]	B141577	0.5	5.00	02/05/16
16B0011-03 [DUP]	B141577	0.5	5.00	02/05/16
16B0011-04 [Trip Blank]	B141577	5	5.00	02/05/16

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16B0011-01 [EB-3]	B141647	5	5.00	02/08/16

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141577 - SW-846 5030B										
Blank (B141577-BLK1)				Prepared & Analyzed: 02/05/16						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							L-04
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B141577 - SW-846 5030B											
Blank (B141577-BLK1)				Prepared & Analyzed: 02/05/16							
Methylene Chloride	ND	5.0	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L								
Naphthalene	ND	2.0	µg/L								
n-Propylbenzene	ND	1.0	µg/L								
Styrene	ND	1.0	µg/L								
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L								
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,3,5-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103	70-130				
Surrogate: Toluene-d8	*24.0*		µg/L	25.0		96.0	70-130				
Surrogate: 4-Bromofluorobenzene	*20.7*		µg/L	25.0		82.8	70-130				
LCS (B141577-BS1)				Prepared & Analyzed: 02/05/16							
Acetone	109	50	µg/L	100		109	70-160				†
Acrylonitrile	10.0	5.0	µg/L	10.0		100	70-130				
tert-Amyl Methyl Ether (TAME)	8.87	0.50	µg/L	10.0		88.7	70-130				
Benzene	10.7	1.0	µg/L	10.0		107	70-130				
Bromobenzene	10.0	1.0	µg/L	10.0		100	70-130				
Bromochloromethane	10.8	1.0	µg/L	10.0		108	70-130				
Bromodichloromethane	10.4	0.50	µg/L	10.0		104	70-130				
Bromoform	9.46	1.0	µg/L	10.0		94.6	70-130				
Bromomethane	5.16	2.0	µg/L	10.0		51.6	40-160			V-20	†
2-Butanone (MEK)	95.0	20	µg/L	100		95.0	40-160				†
tert-Butyl Alcohol (TBA)	76.9	20	µg/L	100		76.9	40-160				†
n-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130				
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130				
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.30	0.50	µg/L	10.0		93.0	70-130				
Carbon Disulfide	10.9	4.0	µg/L	10.0		109	70-130				
Carbon Tetrachloride	10.8	5.0	µg/L	10.0		108	70-130				
Chlorobenzene	11.1	1.0	µg/L	10.0		111	70-130				
Chlorodibromomethane	10.2	0.50	µg/L	10.0		102	70-130				
Chloroethane	12.5	2.0	µg/L	10.0		125	70-130				
Chloroform	10.9	2.0	µg/L	10.0		109	70-130				
Chloromethane	6.17	2.0	µg/L	10.0		61.7	40-160				†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B141577 - SW-846 5030B												
LCS (B141577-BS1)				Prepared & Analyzed: 02/05/16								
4-Chlorotoluene	9.74	1.0	µg/L	10.0		97.4		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.6	5.0	µg/L	10.0		106		70-130				
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103		70-130				
Dibromomethane	11.0	1.0	µg/L	10.0		110		70-130				
1,2-Dichlorobenzene	11.1	1.0	µg/L	10.0		111		70-130				
1,3-Dichlorobenzene	11.9	1.0	µg/L	10.0		119		70-130				
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.0		107		70-130				
trans-1,4-Dichloro-2-butene	10.6	2.0	µg/L	10.0		106		70-130				
Dichlorodifluoromethane (Freon 12)	3.90	2.0	µg/L	10.0		**39.0**	*	40-160			L-04	†
1,1-Dichloroethane	10.5	1.0	µg/L	10.0		105		70-130				
1,2-Dichloroethane	10.5	1.0	µg/L	10.0		105		70-130				
1,1-Dichloroethylene	9.38	1.0	µg/L	10.0		93.8		70-130				
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104		70-130				
trans-1,2-Dichloroethylene	9.82	1.0	µg/L	10.0		98.2		70-130				
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102		70-130				
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106		70-130				
2,2-Dichloropropane	8.62	1.0	µg/L	10.0		86.2		40-130				†
1,1-Dichloropropene	10.4	2.0	µg/L	10.0		104		70-130				
cis-1,3-Dichloropropene	9.47	0.50	µg/L	10.0		94.7		70-130				
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102		70-130				
Diethyl Ether	13.1	2.0	µg/L	10.0		**131**	*	70-130			L-02, V-20	
Diisopropyl Ether (DIPE)	8.76	0.50	µg/L	10.0		87.6		70-130				
1,4-Dioxane	105	50	µg/L	100		105		40-130				†
Ethylbenzene	10.8	1.0	µg/L	10.0		108		70-130				
Hexachlorobutadiene	11.9	0.50	µg/L	10.0		119		70-130				
2-Hexanone (MBK)	92.6	10	µg/L	100		92.6		70-160				†
Isopropylbenzene (Cumene)	9.98	1.0	µg/L	10.0		99.8		70-130				
p-Isopropyltoluene (p-Cymene)	11.4	1.0	µg/L	10.0		114		70-130				
Methyl tert-Butyl Ether (MTBE)	9.06	1.0	µg/L	10.0		90.6		70-130				
Methylene Chloride	9.81	5.0	µg/L	10.0		98.1		70-130				
4-Methyl-2-pentanone (MIBK)	92.4	10	µg/L	100		92.4		70-160				†
Naphthalene	10.8	2.0	µg/L	10.0		108		40-130				†
n-Propylbenzene	10.3	1.0	µg/L	10.0		103		70-130				
Styrene	10.7	1.0	µg/L	10.0		107		70-130				
1,1,1,2-Tetrachloroethane	9.77	1.0	µg/L	10.0		97.7		70-130				
1,1,2,2-Tetrachloroethane	11.9	0.50	µg/L	10.0		119		70-130				
Tetrachloroethylene	11.0	1.0	µg/L	10.0		110		70-130				
Tetrahydrofuran	10.9	10	µg/L	10.0		109		70-130				
Toluene	10.7	1.0	µg/L	10.0		107		70-130				
1,2,3-Trichlorobenzene	11.0	5.0	µg/L	10.0		110		70-130				
1,2,4-Trichlorobenzene	11.0	1.0	µg/L	10.0		110		70-130				
1,3,5-Trichlorobenzene	10.4	1.0	µg/L	10.0		104		70-130				
1,1,1-Trichloroethane	10.1	1.0	µg/L	10.0		101		70-130				
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111		70-130				
Trichloroethylene	10.0	1.0	µg/L	10.0		100		70-130				
Trichlorofluoromethane (Freon 11)	13.1	2.0	µg/L	10.0		**131**	*	70-130			L-02, V-20	
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.0		103		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.1	1.0	µg/L	10.0		121		70-130			V-20	
1,2,4-Trimethylbenzene	11.1	1.0	µg/L	10.0		111		70-130				
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101		70-130				
Vinyl Chloride	8.15	2.0	µg/L	10.0		81.5		40-160				†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B141577 - SW-846 5030B												
LCS (B141577-BS1)				Prepared & Analyzed: 02/05/16								
m+p Xylene	19.6	2.0	µg/L	20.0		98.2		70-130				
o-Xylene	9.89	1.0	µg/L	10.0		98.9		70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.9*		µg/L	25.0		99.4		70-130				
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.2		70-130				
Surrogate: 4-Bromofluorobenzene	*22.6*		µg/L	25.0		90.5		70-130				
LCS Dup (B141577-BSD1)				Prepared & Analyzed: 02/05/16								
Acetone	112	50	µg/L	100		112		70-160	3.08	25		†
Acrylonitrile	9.92	5.0	µg/L	10.0		99.2		70-130	0.903	25		
tert-Amyl Methyl Ether (TAME)	9.25	0.50	µg/L	10.0		92.5		70-130	4.19	25		
Benzene	11.4	1.0	µg/L	10.0		114		70-130	6.97	25		
Bromobenzene	10.3	1.0	µg/L	10.0		103		70-130	2.26	25		
Bromochloromethane	11.5	1.0	µg/L	10.0		115		70-130	6.08	25		
Bromodichloromethane	10.6	0.50	µg/L	10.0		106		70-130	1.71	25		
Bromoform	9.82	1.0	µg/L	10.0		98.2		70-130	3.73	25		
Bromomethane	6.57	2.0	µg/L	10.0		65.7		40-160	24.0	25	V-20	†
2-Butanone (MEK)	94.9	20	µg/L	100		94.9		40-160	0.0632	25		†
tert-Butyl Alcohol (TBA)	75.8	20	µg/L	100		75.8		40-160	1.44	25		†
n-Butylbenzene	11.2	1.0	µg/L	10.0		112		70-130	1.08	25		
sec-Butylbenzene	11.1	1.0	µg/L	10.0		111		70-130	0.361	25		
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103		70-130	0.579	25		
tert-Butyl Ethyl Ether (TBEE)	9.57	0.50	µg/L	10.0		95.7		70-130	2.86	25		
Carbon Disulfide	10.5	4.0	µg/L	10.0		105		70-130	3.27	25		
Carbon Tetrachloride	11.6	5.0	µg/L	10.0		116		70-130	7.03	25		
Chlorobenzene	10.7	1.0	µg/L	10.0		107		70-130	3.31	25		
Chlorodibromomethane	9.91	0.50	µg/L	10.0		99.1		70-130	2.39	25		
Chloroethane	13.7	2.0	µg/L	10.0		**137**	*	70-130	9.39	25	L-07	
Chloroform	11.2	2.0	µg/L	10.0		112		70-130	2.90	25		
Chloromethane	6.20	2.0	µg/L	10.0		62.0		40-160	0.485	25		†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102		70-130	0.489	25		
4-Chlorotoluene	10.2	1.0	µg/L	10.0		102		70-130	4.32	25		
1,2-Dibromo-3-chloropropane (DBCP)	10.9	5.0	µg/L	10.0		109		70-130	3.54	25		
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111		70-130	6.73	25		
Dibromomethane	11.6	1.0	µg/L	10.0		116		70-130	5.15	25		
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.0		109		70-130	1.18	25		
1,3-Dichlorobenzene	11.6	1.0	µg/L	10.0		116		70-130	2.13	25		
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130	1.02	25		
trans-1,4-Dichloro-2-butene	9.80	2.0	µg/L	10.0		98.0		70-130	7.84	25		
Dichlorodifluoromethane (Freon 12)	3.95	2.0	µg/L	10.0		**39.5**	*	40-160	1.27	25	L-04	†
1,1-Dichloroethane	11.2	1.0	µg/L	10.0		112		70-130	6.71	25		
1,2-Dichloroethane	10.6	1.0	µg/L	10.0		106		70-130	0.190	25		
1,1-Dichloroethylene	10.3	1.0	µg/L	10.0		103		70-130	8.96	25		
cis-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106		70-130	1.82	25		
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106		70-130	8.11	25		
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103		70-130	1.07	25		
1,3-Dichloropropane	10.7	0.50	µg/L	10.0		107		70-130	0.655	25		
2,2-Dichloropropane	9.10	1.0	µg/L	10.0		91.0		40-130	5.42	25		†
1,1-Dichloropropene	11.2	2.0	µg/L	10.0		112		70-130	7.67	25		
cis-1,3-Dichloropropene	9.13	0.50	µg/L	10.0		91.3		70-130	3.66	25		
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101		70-130	1.18	25		
Diethyl Ether	14.5	2.0	µg/L	10.0		**145**	*	70-130	10.1	25	L-02, V-20	
Diisopropyl Ether (DIPE)	9.39	0.50	µg/L	10.0		93.9		70-130	6.94	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B141577 - SW-846 5030B												
LCS Dup (B141577-BSD1)				Prepared & Analyzed: 02/05/16								
1,4-Dioxane	110	50	µg/L	100		110		40-130	4.70	50		† ‡
Ethylbenzene	10.7	1.0	µg/L	10.0		107		70-130	1.40	25		
Hexachlorobutadiene	11.8	0.50	µg/L	10.0		118		70-130	0.338	25		
2-Hexanone (MBK)	93.1	10	µg/L	100		93.1		70-160	0.495	25		†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.0		101		70-130	1.10	25		
p-Isopropyltoluene (p-Cymene)	11.1	1.0	µg/L	10.0		111		70-130	2.59	25		
Methyl tert-Butyl Ether (MTBE)	9.63	1.0	µg/L	10.0		96.3		70-130	6.10	25		
Methylene Chloride	10.3	5.0	µg/L	10.0		103		70-130	5.16	25		
4-Methyl-2-pentanone (MIBK)	93.5	10	µg/L	100		93.5		70-160	1.10	25		†
Naphthalene	10.9	2.0	µg/L	10.0		109		40-130	0.919	25		†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108		70-130	4.35	25		
Styrene	10.7	1.0	µg/L	10.0		107		70-130	0.00	25		
1,1,1,2-Tetrachloroethane	11.2	1.0	µg/L	10.0		112		70-130	13.9	25		
1,1,2,2-Tetrachloroethane	12.1	0.50	µg/L	10.0		121		70-130	1.41	25		
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105		70-130	5.02	25		
Tetrahydrofuran	10.6	10	µg/L	10.0		106		70-130	2.51	25		
Toluene	10.8	1.0	µg/L	10.0		108		70-130	0.559	25		
1,2,3-Trichlorobenzene	10.4	5.0	µg/L	10.0		104		70-130	4.76	25		
1,2,4-Trichlorobenzene	11.7	1.0	µg/L	10.0		117		70-130	5.80	25		
1,3,5-Trichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130	2.23	25		
1,1,1-Trichloroethane	10.0	1.0	µg/L	10.0		100		70-130	0.595	25		
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112		70-130	1.43	25		
Trichloroethylene	10.5	1.0	µg/L	10.0		105		70-130	4.97	25		
Trichlorofluoromethane (Freon 11)	13.6	2.0	µg/L	10.0		**136**	*	70-130	4.12	25	L-02, V-20	
1,2,3-Trichloropropane	10.7	2.0	µg/L	10.0		107		70-130	3.91	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.6	1.0	µg/L	10.0		126		70-130	4.30	25	V-20	
1,2,4-Trimethylbenzene	10.5	1.0	µg/L	10.0		105		70-130	5.19	25		
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.0		105		70-130	3.89	25		
Vinyl Chloride	8.99	2.0	µg/L	10.0		89.9		40-160	9.80	25		†
m+p Xylene	20.6	2.0	µg/L	20.0		103		70-130	4.87	25		
o-Xylene	10.2	1.0	µg/L	10.0		102		70-130	3.18	25		
Surrogate: 1,2-Dichloroethane-d4	*25.1*		µg/L	25.0		100		70-130				
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.8		70-130				
Surrogate: 4-Bromofluorobenzene	*22.6*		µg/L	25.0		90.6		70-130				
Batch B141647 - SW-846 5030B												
Blank (B141647-BLK1)				Prepared & Analyzed: 02/08/16								
Acetone	ND	50	µg/L									
Acrylonitrile	ND	5.0	µg/L									
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L									
Benzene	ND	1.0	µg/L									
Bromobenzene	ND	1.0	µg/L									
Bromochloromethane	ND	1.0	µg/L									
Bromodichloromethane	ND	0.50	µg/L									
Bromoform	ND	1.0	µg/L									
Bromomethane	ND	2.0	µg/L									
2-Butanone (MEK)	ND	20	µg/L									
tert-Butyl Alcohol (TBA)	ND	20	µg/L									
n-Butylbenzene	ND	1.0	µg/L									
sec-Butylbenzene	ND	1.0	µg/L									
tert-Butylbenzene	ND	1.0	µg/L									

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141647 - SW-846 5030B										
Blank (B141647-BLK1)				Prepared & Analyzed: 02/08/16						
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B141647 - SW-846 5030B												
Blank (B141647-BLK1)				Prepared & Analyzed: 02/08/16								
1,1,2-Trichloroethane	ND	1.0	µg/L									
Trichloroethylene	ND	1.0	µg/L									
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L									
1,2,3-Trichloropropane	ND	2.0	µg/L									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
Vinyl Chloride	ND	2.0	µg/L									
m+p Xylene	ND	2.0	µg/L									
o-Xylene	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*26.6*		µg/L	25.0		106		70-130				
Surrogate: Toluene-d8	*24.3*		µg/L	25.0		97.2		70-130				
Surrogate: 4-Bromofluorobenzene	*21.2*		µg/L	25.0		84.7		70-130				
LCS (B141647-BS1)				Prepared & Analyzed: 02/08/16								
Acetone	116	50	µg/L	100		116		70-160				†
Acrylonitrile	11.6	5.0	µg/L	10.0		116		70-130				
tert-Amyl Methyl Ether (TAME)	9.65	0.50	µg/L	10.0		96.5		70-130				
Benzene	11.9	1.0	µg/L	10.0		119		70-130				
Bromobenzene	10.9	1.0	µg/L	10.0		109		70-130				
Bromochloromethane	12.0	1.0	µg/L	10.0		120		70-130				
Bromodichloromethane	11.2	0.50	µg/L	10.0		112		70-130				
Bromoform	11.0	1.0	µg/L	10.0		110		70-130				
Bromomethane	7.10	2.0	µg/L	10.0		71.0		40-160			V-20	†
2-Butanone (MEK)	103	20	µg/L	100		103		40-160				†
tert-Butyl Alcohol (TBA)	88.0	20	µg/L	100		88.0		40-160				†
n-Butylbenzene	11.7	1.0	µg/L	10.0		117		70-130				
sec-Butylbenzene	11.6	1.0	µg/L	10.0		116		70-130				
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110		70-130				
tert-Butyl Ethyl Ether (TBEE)	9.93	0.50	µg/L	10.0		99.3		70-130				
Carbon Disulfide	12.5	4.0	µg/L	10.0		125		70-130				
Carbon Tetrachloride	12.0	5.0	µg/L	10.0		120		70-130				
Chlorobenzene	11.2	1.0	µg/L	10.0		112		70-130				
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110		70-130				
Chloroethane	15.8	2.0	µg/L	10.0		**158**	*	70-130			L-02	
Chloroform	12.0	2.0	µg/L	10.0		120		70-130				
Chloromethane	8.41	2.0	µg/L	10.0		84.1		40-160				†
2-Chlorotoluene	10.0	1.0	µg/L	10.0		100		70-130				
4-Chlorotoluene	10.0	1.0	µg/L	10.0		100		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	11.3	5.0	µg/L	10.0		113		70-130				
1,2-Dibromoethane (EDB)	11.4	0.50	µg/L	10.0		114		70-130				
Dibromomethane	11.9	1.0	µg/L	10.0		119		70-130				
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.0		114		70-130				
1,3-Dichlorobenzene	12.0	1.0	µg/L	10.0		120		70-130				
1,4-Dichlorobenzene	11.3	1.0	µg/L	10.0		113		70-130				
trans-1,4-Dichloro-2-butene	11.2	2.0	µg/L	10.0		112		70-130				
Dichlorodifluoromethane (Freon 12)	8.02	2.0	µg/L	10.0		80.2		40-160				†
1,1-Dichloroethane	11.9	1.0	µg/L	10.0		119		70-130				
1,2-Dichloroethane	11.5	1.0	µg/L	10.0		115		70-130				
1,1-Dichloroethylene	11.1	1.0	µg/L	10.0		111		70-130				
cis-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113		70-130				
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B141647 - SW-846 5030B												
LCS (B141647-BS1)				Prepared & Analyzed: 02/08/16								
1,2-Dichloropropane	11.1	1.0	µg/L	10.0		111		70-130				
1,3-Dichloropropane	11.6	0.50	µg/L	10.0		116		70-130				
2,2-Dichloropropane	9.83	1.0	µg/L	10.0		98.3		40-130				†
1,1-Dichloropropene	12.0	2.0	µg/L	10.0		120		70-130				
cis-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100		70-130				
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110		70-130				
Diethyl Ether	15.1	2.0	µg/L	10.0		**151**	*	70-130			L-02, V-20	
Diisopropyl Ether (DIPE)	9.76	0.50	µg/L	10.0		97.6		70-130				
1,4-Dioxane	103	50	µg/L	100		103		40-130				†
Ethylbenzene	10.8	1.0	µg/L	10.0		108		70-130				
Hexachlorobutadiene	12.9	0.50	µg/L	10.0		129		70-130				
2-Hexanone (MBK)	99.6	10	µg/L	100		99.6		70-160				†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106		70-130				
p-Isopropyltoluene (p-Cymene)	12.0	1.0	µg/L	10.0		120		70-130				
Methyl tert-Butyl Ether (MTBE)	9.87	1.0	µg/L	10.0		98.7		70-130				
Methylene Chloride	11.2	5.0	µg/L	10.0		112		70-130				
4-Methyl-2-pentanone (MIBK)	99.8	10	µg/L	100		99.8		70-160				†
Naphthalene	10.4	2.0	µg/L	10.0		104		40-130				†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108		70-130				
Styrene	11.0	1.0	µg/L	10.0		110		70-130				
1,1,1,2-Tetrachloroethane	11.6	1.0	µg/L	10.0		116		70-130				
1,1,2,2-Tetrachloroethane	12.6	0.50	µg/L	10.0		126		70-130				
Tetrachloroethylene	11.5	1.0	µg/L	10.0		115		70-130				
Tetrahydrofuran	10.9	10	µg/L	10.0		109		70-130				
Toluene	11.2	1.0	µg/L	10.0		112		70-130				
1,2,3-Trichlorobenzene	10.7	5.0	µg/L	10.0		107		70-130				
1,2,4-Trichlorobenzene	11.2	1.0	µg/L	10.0		112		70-130				
1,3,5-Trichlorobenzene	10.7	1.0	µg/L	10.0		107		70-130				
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.0		115		70-130				
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111		70-130				
Trichloroethylene	11.6	1.0	µg/L	10.0		116		70-130				
Trichlorofluoromethane (Freon 11)	15.8	2.0	µg/L	10.0		**158**	*	70-130			L-02, V-20	
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.7	1.0	µg/L	10.0		**137**	*	70-130			L-02	
1,2,4-Trimethylbenzene	11.6	1.0	µg/L	10.0		116		70-130				
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0		108		70-130				
Vinyl Chloride	12.0	2.0	µg/L	10.0		120		40-160				†
m+p Xylene	21.1	2.0	µg/L	20.0		105		70-130				
o-Xylene	10.6	1.0	µg/L	10.0		106		70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.4		70-130				
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.5		70-130				
Surrogate: 4-Bromofluorobenzene	*22.6*		µg/L	25.0		90.6		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B141647 - SW-846 5030B												
LCS Dup (B141647-BSD1)				Prepared & Analyzed: 02/08/16								
Acetone	118	50	µg/L	100		118		70-160	2.05	25		†
Acrylonitrile	12.7	5.0	µg/L	10.0		127		70-130	9.25	25		
tert-Amyl Methyl Ether (TAME)	10.1	0.50	µg/L	10.0		101		70-130	4.85	25		
Benzene	11.6	1.0	µg/L	10.0		116		70-130	2.30	25		
Bromobenzene	11.0	1.0	µg/L	10.0		110		70-130	0.457	25		
Bromochloromethane	12.4	1.0	µg/L	10.0		124		70-130	2.62	25		
Bromodichloromethane	11.6	0.50	µg/L	10.0		116		70-130	3.76	25		
Bromoform	10.4	1.0	µg/L	10.0		104		70-130	5.43	25		
Bromomethane	7.30	2.0	µg/L	10.0		73.0		40-160	2.78	25	V-20	†
2-Butanone (MEK)	108	20	µg/L	100		108		40-160	5.10	25		†
tert-Butyl Alcohol (TBA)	87.2	20	µg/L	100		87.2		40-160	0.948	25		†
n-Butylbenzene	11.1	1.0	µg/L	10.0		111		70-130	5.27	25		
sec-Butylbenzene	11.2	1.0	µg/L	10.0		112		70-130	4.03	25		
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104		70-130	5.63	25		
tert-Butyl Ethyl Ether (TBEE)	10.2	0.50	µg/L	10.0		102		70-130	2.19	25		
Carbon Disulfide	11.5	4.0	µg/L	10.0		115		70-130	8.67	25		
Carbon Tetrachloride	11.9	5.0	µg/L	10.0		119		70-130	0.835	25		
Chlorobenzene	11.2	1.0	µg/L	10.0		112		70-130	0.358	25		
Chlorodibromomethane	11.2	0.50	µg/L	10.0		112		70-130	1.99	25		
Chloroethane	14.9	2.0	µg/L	10.0		**149**	*	70-130	5.73	25	L-02	
Chloroform	11.8	2.0	µg/L	10.0		118		70-130	1.59	25		
Chloromethane	8.18	2.0	µg/L	10.0		81.8		40-160	2.77	25		†
2-Chlorotoluene	10.3	1.0	µg/L	10.0		103		70-130	2.36	25		
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101		70-130	0.796	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.86	5.0	µg/L	10.0		98.6		70-130	13.8	25		
1,2-Dibromoethane (EDB)	11.8	0.50	µg/L	10.0		118		70-130	3.28	25		
Dibromomethane	11.6	1.0	µg/L	10.0		116		70-130	2.64	25		
1,2-Dichlorobenzene	11.5	1.0	µg/L	10.0		115		70-130	0.870	25		
1,3-Dichlorobenzene	11.8	1.0	µg/L	10.0		118		70-130	1.35	25		
1,4-Dichlorobenzene	11.1	1.0	µg/L	10.0		111		70-130	1.97	25		
trans-1,4-Dichloro-2-butene	11.4	2.0	µg/L	10.0		114		70-130	1.68	25		
Dichlorodifluoromethane (Freon 12)	7.95	2.0	µg/L	10.0		79.5		40-160	0.877	25		†
1,1-Dichloroethane	11.8	1.0	µg/L	10.0		118		70-130	0.761	25		
1,2-Dichloroethane	11.5	1.0	µg/L	10.0		115		70-130	0.609	25		
1,1-Dichloroethylene	10.9	1.0	µg/L	10.0		109		70-130	2.00	25		
cis-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111		70-130	1.78	25		
trans-1,2-Dichloroethylene	11.5	1.0	µg/L	10.0		115		70-130	4.90	25		
1,2-Dichloropropane	11.0	1.0	µg/L	10.0		110		70-130	1.36	25		
1,3-Dichloropropane	11.6	0.50	µg/L	10.0		116		70-130	0.0864	25		
2,2-Dichloropropane	10.1	1.0	µg/L	10.0		101		40-130	2.81	25		†
1,1-Dichloropropene	11.4	2.0	µg/L	10.0		114		70-130	4.78	25		
cis-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104		70-130	4.01	25		
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106		70-130	2.96	25		
Diethyl Ether	15.4	2.0	µg/L	10.0		**154**	*	70-130	1.64	25	L-02, V-20	
Diisopropyl Ether (DIPE)	9.82	0.50	µg/L	10.0		98.2		70-130	0.613	25		
1,4-Dioxane	113	50	µg/L	100		113		40-130	8.41	50		† ‡
Ethylbenzene	10.7	1.0	µg/L	10.0		107		70-130	1.39	25		
Hexachlorobutadiene	11.8	0.50	µg/L	10.0		118		70-130	8.92	25		
2-Hexanone (MBK)	104	10	µg/L	100		104		70-160	4.12	25		†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102		70-130	3.56	25		
p-Isopropyltoluene (p-Cymene)	11.2	1.0	µg/L	10.0		112		70-130	6.82	25		
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102		70-130	2.99	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B141647 - SW-846 5030B												
LCS Dup (B141647-BSD1)				Prepared & Analyzed: 02/08/16								
Methylene Chloride	11.3	5.0	µg/L	10.0		113		70-130	0.534	25		
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100		102		70-160	2.42	25		†
Naphthalene	9.92	2.0	µg/L	10.0		99.2		40-130	4.53	25		†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108		70-130	0.278	25		
Styrene	10.7	1.0	µg/L	10.0		107		70-130	2.68	25		
1,1,1,2-Tetrachloroethane	11.5	1.0	µg/L	10.0		115		70-130	0.519	25		
1,1,2,2-Tetrachloroethane	13.2	0.50	µg/L	10.0		**132**	*	70-130	5.05	25	L-07	
Tetrachloroethylene	11.5	1.0	µg/L	10.0		115		70-130	0.174	25		
Tetrahydrofuran	12.1	10	µg/L	10.0		121		70-130	9.74	25		
Toluene	11.1	1.0	µg/L	10.0		111		70-130	0.717	25		
1,2,3-Trichlorobenzene	10.1	5.0	µg/L	10.0		101		70-130	5.75	25		
1,2,4-Trichlorobenzene	10.9	1.0	µg/L	10.0		109		70-130	2.79	25		
1,3,5-Trichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130	4.31	25		
1,1,1-Trichloroethane	11.1	1.0	µg/L	10.0		111		70-130	3.55	25		
1,1,2-Trichloroethane	12.0	1.0	µg/L	10.0		120		70-130	7.99	25		
Trichloroethylene	10.9	1.0	µg/L	10.0		109		70-130	6.07	25		
Trichlorofluoromethane (Freon 11)	15.0	2.0	µg/L	10.0		**150**	*	70-130	4.74	25	L-02, V-20	
1,2,3-Trichloropropane	11.5	2.0	µg/L	10.0		115		70-130	4.63	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.6	1.0	µg/L	10.0		**136**	*	70-130	0.731	25	L-02	
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.0		106		70-130	9.54	25		
1,3,5-Trimethylbenzene	10.2	1.0	µg/L	10.0		102		70-130	6.11	25		
Vinyl Chloride	11.4	2.0	µg/L	10.0		114		40-160	5.81	25		†
m+p Xylene	20.0	2.0	µg/L	20.0		99.9		70-130	5.41	25		
o-Xylene	10.4	1.0	µg/L	10.0		104		70-130	1.82	25		
Surrogate: 1,2-Dichloroethane-d4	*26.2*		µg/L	25.0		105		70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100		70-130				
Surrogate: 4-Bromofluorobenzene	*22.9*		µg/L	25.0		91.4		70-130				

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
Acetone	NC
Acrylonitrile	NC
tert-Amyl Methyl Ether (TAME)	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	NC
sec-Butylbenzene	NC
tert-Butylbenzene	NC
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
2-Chlorotoluene	NC
4-Chlorotoluene	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
trans-1,4-Dichloro-2-butene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,3-Dichloropropane	NC
2,2-Dichloropropane	NC
1,1-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
n-Propylbenzene	NC
Styrene	NC
1,1,1,2-Tetrachloroethane	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Tetrahydrofuran	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,3,5-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,2,3-Trichloropropane	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	NC
1,3,5-Trimethylbenzene	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

16B0011

39 Spruce Street
East Longmeadow, MA 01028

Company Name: SLME
Address: 9751 Southern Pine Blvd
Charlotte NC 28273
Attention: Scott Young
Project Location: Gastonia NC
Sampled By: R. Wilson, M. Bandage

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

Telephone: 704 523 4726
Project # 4335-15-109 Ph 4
Client PO#

DATA DELIVERY (check all that apply)
O FAX ☒ EMAIL O WEBSITE
Fax # 704 525 3953
Email: SYoung@SLMEINC.com
Format: ☒ PDF O EXCEL O GIS
O OTHER _____
O "Enhanced Data Package"

Analysis Requested: 826OB

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	826OB
01	EB-3	1/27/16 1005			X	GW	V	X
02	MW-7C	1/28/16 1130			X	GW	V	X
03	DUP	1/28/16			X	GW	V	X
04	TRIP BLANK	—			X		V	X

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 1/28/16 0810
Received by: (signature)	Date/Time: 1/28/16 1500
Relinquished by: (signature)	Date/Time: 1/28/16 1700
Received by: (signature)	Date/Time: 1/29/16 932

Turnaround ††
O 5-Day
O 5-7-Day
☒ 10-Day
RUSH †
O †24-Hr r †48-Hr
O †72-Hr r †4-Day
† Requires Lab Approval

Detection Limit Requirements
North Carolina
☒ 2L
O GWPC
O SWSL
O OTHER _____

Program Information

O DSCA O IHSB Orphaned Landfill
O SWS Landfill O UST O REC
O Other: _____

NELAC & AIHA Certifie
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN.
IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUI

Analysis Requested

# of Containers	
** Preservation	
***Container Co	

Dissolved Met
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisul
X = Na hydroxid
T = Na thiosulfat
O = Other_____

*Matrix Code:
GW= groundwat
WW= wastewat
DW= drinking w
A = air
S = soil/solid
SL = sludge
O = other_____

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: S&ME-Charlotte **RECEIVED BY**: RLF **DATE**: 1/29/2016

1) Was the chain(s) of custody relinquished and signed? **Yes** X **No** ____ **No COC Incl.**

2) Does the chain agree with the samples? **Yes** X **No** ____

If not, explain:

3) Are all the samples in good condition? **Yes** X **No** ____

If not, explain:

4) How were the samples received:

On Ice X Direct from Sampling ____ Ambient ____ In Cooler(s) X

Were the samples received in Temperature Compliance of (2-6℃)? **Yes** X **No** ____ **N/A** ____

Temperature ℃ by Temp blank 3 Temperature ℃ by Temp gun ____

5) Are there Dissolved samples for the lab to filter? **Yes** ____ **No** X

Who was notified ____ Date ____ Time ____

6) Are there any RUSH or SHORT HOLDING TIME samples? **Yes** ____ **No** X

Who was notified ____ Date ____ Time ____

7) Location where samples are stored:

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) Do all samples have the proper Acid pH: **Yes** ____ **No** ____ **N/A** X

9) Do all samples have the proper Base pH: **Yes** ____ **No** ____ **N/A** X

10) Was the PC notified of any discrepancies with the CoC vs the samples: **Yes** ____ **N/A** X

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below	11	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials:	# HCl	11	# Methanol	**Time and Date Frozen:**
Doc# 277	# Bisulfate		# DI Water	
Rev. 4 August 2013	# Thiosulfate		Unpreserved	

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	N/A	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** RLF **Date/Time: 1/29/16 9:32**

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 12, 2016

Al Quarles
S&ME Inc. Charlotte, NC
9751 Southern Pine Blvd.
Charlotte, NC 28273

Project Location: Gastonia, NC
Client Job Number:
Project Number: 4335-15-109
Laboratory Work Order Number: 16B0100

Enclosed are results of analyses for samples received by the laboratory on January 28, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

S&ME Inc. Charlotte, NC
9751 Southern Pine Blvd.
Charlotte, NC 28273
ATTN: Al Quarles

REPORT DATE: 2/12/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 4335-15-109

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16B0100

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Gastonia, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IA-VI-1	16B0100-01	Air		EPA TO-15	
IA-VI-2	16B0100-02	Air		EPA TO-15	
IA-VI-3	16B0100-03	Air		EPA TO-15	
IA-VI-DUP	16B0100-04	Air		EPA TO-15	
IA-VI-BG	16B0100-05	Ambient Air		EPA TO-15	

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EXECUTIVE SUMMARY

Client ID: **IA-VI-BG** Lab ID: **16B0100-05**

No Results Detected

Con-Test does not accept liability for the consequences of any actions taken solely on the basis of the information provided in the Executive Summary section of this report. Users must review this report in its entirety to determine data usability and assessment.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

EXECUTIVE SUMMARY

Client ID: **IA-VI-1** Lab ID: **16B0100-01**

Analyte	Results/Qual		DL	RL	Units	Method
1,1,1-Trichloroethane	0.87		0.0063	0.035	ppbv	EPA TO-15
1,1-Dichloroethane	0.088		0.0099	0.035	ppbv	EPA TO-15
1,1-Dichloroethylene	2.9		0.0086	0.035	ppbv	EPA TO-15
1,2-Dichloroethane	0.030	J	0.0098	0.035	ppbv	EPA TO-15
Tetrachloroethylene	0.12		0.010	0.035	ppbv	EPA TO-15
Trichloroethylene	0.41		0.010	0.035	ppbv	EPA TO-15

Client ID: **IA-VI-2** Lab ID: **16B0100-02**

Analyte	Results/Qual		DL	RL	Units	Method
1,1,1-Trichloroethane	1.4		0.018	0.10	ppbv	EPA TO-15
1,1-Dichloroethane	0.19		0.028	0.10	ppbv	EPA TO-15
1,1-Dichloroethylene	2.5		0.024	0.10	ppbv	EPA TO-15
Tetrachloroethylene	0.18		0.028	0.10	ppbv	EPA TO-15
Trichloroethylene	0.36		0.030	0.10	ppbv	EPA TO-15

Client ID: **IA-VI-3** Lab ID: **16B0100-03**

Analyte	Results/Qual		DL	RL	Units	Method
1,1,1-Trichloroethane	0.77		0.018	0.10	ppbv	EPA TO-15
1,1-Dichloroethane	0.086	J	0.028	0.10	ppbv	EPA TO-15
1,1-Dichloroethylene	3.8		0.024	0.10	ppbv	EPA TO-15
Tetrachloroethylene	0.48		0.028	0.10	ppbv	EPA TO-15
Trichloroethylene	0.26		0.030	0.10	ppbv	EPA TO-15

Client ID: **IA-VI-DUP** Lab ID: **16B0100-04**

Analyte	Results/Qual		DL	RL	Units	Method
1,1,1-Trichloroethane	0.84		0.0063	0.035	ppbv	EPA TO-15
1,1-Dichloroethane	0.082		0.0099	0.035	ppbv	EPA TO-15
1,1-Dichloroethylene	2.8		0.0086	0.035	ppbv	EPA TO-15
1,2-Dichloroethane	0.027	J	0.0098	0.035	ppbv	EPA TO-15
Tetrachloroethylene	0.065		0.010	0.035	ppbv	EPA TO-15
Trichloroethylene	0.39		0.010	0.035	ppbv	EPA TO-15

Con-Test does not accept liability for the consequences of any actions taken solely on the basis of the information provided in the Executive Summary section of this report. Users must review this report in its entirety to determine data usability and assessment.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 02-12-16: Per client request the TO-15 list has been modified.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Gastonia, NC
Date Received: 1/28/2016
Field Sample #: IA-VI-1
Sample ID: 16B0100-01
Sample Matrix: Air
Sampled: 1/27/2016 16:24

Sample Description/Location:
Sub Description/Location:
Canister ID: 1328
Canister Size: 6 liter
Flow Controller ID: 3209
Sample Type: 8 hr

Work Order: 16B0100
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -8.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
1,1-Dichloroethane	0.088	0.035		0.36	0.14	0.702	2/9/16 13:52	CMR
1,2-Dichloroethane	0.030	0.035	J	0.12	0.14	0.702	2/9/16 13:52	CMR
1,1-Dichloroethylene	2.9	0.035		11	0.14	0.702	2/9/16 13:52	CMR
Tetrachloroethylene	0.12	0.035		0.78	0.24	0.702	2/9/16 13:52	CMR
1,1,1-Trichloroethane	0.87	0.035		4.8	0.19	0.702	2/9/16 13:52	CMR
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/9/16 13:52	CMR
Trichloroethylene	0.41	0.035		2.2	0.19	0.702	2/9/16 13:52	CMR
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/9/16 13:52	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/9/16 13:52
4-Bromofluorobenzene (1)	114	70-130	2/8/16 23:57

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Gastonia, NC
Date Received: 1/28/2016
Field Sample #: IA-VI-2
Sample ID: 16B0100-02
Sample Matrix: Air
Sampled: 1/27/2016 16:23

Sample Description/Location:
Sub Description/Location:
Canister ID: 1283
Canister Size: 6 liter
Flow Controller ID: 3553
Sample Type: 8 hr

Work Order: 16B0100
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -10
Receipt Vacuum(in Hg): -11.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
1,1-Dichloroethane	0.19	0.10		0.76	0.40	2	2/9/16 16:19	CMR
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/9/16 16:19	CMR
1,1-Dichloroethylene	2.5	0.10		10.0	0.40	2	2/9/16 16:19	CMR
Tetrachloroethylene	0.18	0.10		1.2	0.68	2	2/9/16 16:19	CMR
1,1,1-Trichloroethane	1.4	0.10		7.6	0.55	2	2/9/16 16:19	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/9/16 16:19	CMR
Trichloroethylene	0.36	0.10		1.9	0.54	2	2/9/16 16:19	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	2/9/16 16:19	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	116	70-130	2/9/16 11:59
4-Bromofluorobenzene (1)	120	70-130	2/9/16 16:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Gastonia, NC
Date Received: 1/28/2016
Field Sample #: IA-VI-3
Sample ID: 16B0100-03
Sample Matrix: Air
Sampled: 1/27/2016 16:22

Sample Description/Location:
Sub Description/Location:
Canister ID: 1008
Canister Size: 6 liter
Flow Controller ID: 3552
Sample Type: 8 hr

Work Order: 16B0100
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -12.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
1,1-Dichloroethane	0.086	0.10	J	0.35	0.40	2	2/9/16 17:00	CMR
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/9/16 17:00	CMR
1,1-Dichloroethylene	3.8	0.10		15	0.40	2	2/9/16 17:00	CMR
Tetrachloroethylene	0.48	0.10		3.3	0.68	2	2/9/16 17:00	CMR
1,1,1-Trichloroethane	0.77	0.10		4.2	0.55	2	2/9/16 17:00	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/9/16 17:00	CMR
Trichloroethylene	0.26	0.10		1.4	0.54	2	2/9/16 17:00	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	2/9/16 17:00	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/9/16 17:00
4-Bromofluorobenzene (1)	115	70-130	2/9/16 1:07

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ANALYTICAL RESULTS

Project Location: Gastonia, NC
Date Received: 1/28/2016
Field Sample #: IA-VI-DUP
Sample ID: 16B0100-04
Sample Matrix: Air
Sampled: 1/27/2016 16:24

Sample Description/Location:
Sub Description/Location:
Canister ID: 1345
Canister Size: 6 liter
Flow Controller ID: 3208
Sample Type: 8 hr

Work Order: 16B0100
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -8.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
1,1-Dichloroethane	0.082	0.035		0.33	0.14	0.702	2/9/16 14:44	CMR
1,2-Dichloroethane	0.027	0.035	J	0.11	0.14	0.702	2/9/16 14:44	CMR
1,1-Dichloroethylene	2.8	0.035		11	0.14	0.702	2/9/16 14:44	CMR
Tetrachloroethylene	0.065	0.035		0.44	0.24	0.702	2/9/16 14:44	CMR
1,1,1-Trichloroethane	0.84	0.035		4.6	0.19	0.702	2/9/16 14:44	CMR
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/9/16 14:44	CMR
Trichloroethylene	0.39	0.035		2.1	0.19	0.702	2/9/16 14:44	CMR
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/9/16 14:44	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	2/9/16 14:44
4-Bromofluorobenzene (1)	114	70-130	2/9/16 1:42

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ANALYTICAL RESULTS

Project Location: Gastonia, NC
Date Received: 1/28/2016
Field Sample #: IA-VI-BG
Sample ID: 16B0100-05
Sample Matrix: Ambient Air
Sampled: 1/27/2016 16:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1085
Canister Size: 6 liter
Flow Controller ID: 3306
Sample Type: 8 hr

Work Order: 16B0100
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -8.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag/Qual	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	2/9/16 15:37	CMR
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	2/9/16 15:37	CMR
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	2/9/16 15:37	CMR
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	2/9/16 15:37	CMR
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	2/9/16 15:37	CMR
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	2/9/16 15:37	CMR
Trichloroethylene	ND	0.035		ND	0.19	0.702	2/9/16 15:37	CMR
Vinyl Chloride	ND	0.035		ND	0.090	0.702	2/9/16 15:37	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	2/9/16 15:37

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Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
16B0100-01 [IA-VI-1]	B141971	1.5	1	N/A	1000	400	855	02/08/16
16B0100-02 [IA-VI-2]	B141971	1.5	1	N/A	1000	400	300	02/08/16
16B0100-03 [IA-VI-3]	B141971	1.5	1	N/A	1000	400	300	02/08/16
16B0100-04 [IA-VI-DUP]	B141971	1.5	1	N/A	1000	400	855	02/08/16
16B0100-05 [IA-VI-BG]	B141971	1.5	1	N/A	1000	400	855	02/08/16

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B141971 - TO-15 Prep											
Blank (B141971-BLK1)					Prepared & Analyzed: 02/08/16						
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
Tetrachloroethylene	ND	0.035									
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Vinyl Chloride	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*7.71*				*8.00*		*96.4*	*70-130*			
LCS (B141971-BS1)					Prepared & Analyzed: 02/08/16						
1,1-Dichloroethane	5.50				5.00		110	70-130			
1,2-Dichloroethane	5.31				5.00		106	70-130			
1,1-Dichloroethylene	5.61				5.00		112	70-130			
Tetrachloroethylene	5.19				5.00		104	70-130			
1,1,1-Trichloroethane	5.17				5.00		103	70-130			
1,1,2-Trichloroethane	5.65				5.00		113	70-130			
Trichloroethylene	5.41				5.00		108	70-130			
Vinyl Chloride	4.64				5.00		92.8	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.18*				*8.00*		*102*	*70-130*			
Batch B141972 - TO-15 Prep											
Blank (B141972-BLK1)					Prepared & Analyzed: 02/08/16						
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
Tetrachloroethylene	0.013	0.035									J
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Vinyl Chloride	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.98*				*8.00*		*112*	*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B141972 - TO-15 Prep											
LCS (B141972-BS1)					Prepared & Analyzed: 02/08/16						
1,1-Dichloroethane	4.80				5.00		95.9	70-130			
1,2-Dichloroethane	5.04				5.00		101	70-130			
1,1-Dichloroethylene	4.85				5.00		97.0	70-130			
Tetrachloroethylene	5.39				5.00		108	70-130			
1,1,1-Trichloroethane	6.15				5.00		123	70-130			
1,1,2-Trichloroethane	5.35				5.00		107	70-130			
Trichloroethylene	6.07				5.00		121	70-130			
Vinyl Chloride	4.62				5.00		92.5	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*9.29*				*8.00*		*116*	*70-130*			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
1,1-Dichloroethane	AIHA,FL,NJ,NY,VA,ME
1,2-Dichloroethane	AIHA,FL,NJ,NY,VA,ME
1,1-Dichloroethylene	AIHA,FL,NJ,NY,VA,ME
Tetrachloroethylene	AIHA,FL,NJ,NY,VA,ME
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,VA,ME
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,VA,ME
Trichloroethylene	AIHA,FL,NJ,NY,VA,ME
Vinyl Chloride	AIHA,FL,NJ,NY,VA,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2017
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc #378 Rev 0 5/8/15

CHAIN OF CUSTODY RECORD (AIR) 16B0100

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: S&ME
Address: 9751 Southern Pine Blvd
Phone: 704-523-4726
Project Name: Petty Machine
Project Location: Gastonia, NC
Project Number: 4335-15-109 Ph 4
Project Manager: Scott Young
Con-Test Bid:
Invoice Recipient: Scott Young
Sampled By: B. Wilson, M. Brundage

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Other:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☐
Other:
Enhanced Data Package Required: ☐
Email To: SYoung@smeinc.com
Fax To #:

ANALYSIS REQUESTED

Please fill out completely, sign, date and retain the yellow copy for your records

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply

For summa canister and flow controller information please refer to Con-Test's Air Media Agreement

Lab Use: Con-Test Work Order#	Client Use: Client Sample ID / Description	Collection Data: Beginning Date/Time	Collection Data: Ending Date/Time	Duration: Total Minutes Sampled	Flow Rate (☐ m³/min ☐ L/min)	Matrix: Code	Volume (☒ Liters ☐ m³)	TO-15				Initial Pressure (" Hg)	Final Pressure (" Hg)	Lab Receipt Pressure (" Hg)	Summa Can ID	Flow Controller ID
01	IA-VI-1	1/27/16 0910	1/27/16 1624	454		IA	6	X				28	7	-8.3	1328	3209
02	IA-VI-2	0906	1623	449			6	X				29	10	-11.2	1283	3553
03	IA-VI-3	0905	1622	447			6	X				29	8	-12.1	1008	3552
04	IA-VI-DUP	0910	1624	454		DUP	6	X				30	8	-8.3	1345	3208
05	IA-VI-BG	0902	1627	449		AMB	6	X				30	8	-8.3	1085	3306

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

Relinquished by: (signature)	Date/Time:
Matthew Brundage	1/27/16 1745
Received by: (signature) S&ME	1/27/16 1745
Relinquished by: (signature)	1/28/16 KAD
Received by: (signature)	1/28/16 1750
Relinquished by: (signature)	Date/Time:
Received by: (signature)	1/29/16 1237

Detection Limit Requirements		Special Requirements	
MA		☐	MA MCP Required
CT		☐	CT RCP Required
Other:		☐	Enhanced Data Package Required

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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FedEx Shipping Tracking Manage Learn FedEx Office ® Login

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FedEx will be operating in Santa Clara and San Francisco, CA areas during Super Bowl 50. Learn More

FedEx ® Tracking

775525610594

Ship date:
Fri 1/29/2016
CHARLOTTE, NC US

Delivered
Signed for by: CCOLLINS

Actual delivery:
Tue 2/02/2016 12:37 pm
EAST LONGMEADOW, MA US

2 Piece shipment

Travel History

Date/Time	Activity	Location
2/02/2016 - Tuesday		
12:37 pm	Delivered	East Longmeadow, MA
4:29 am	On FedEx vehicle for delivery	CHICOPEE, MA
4:25 am	At local FedEx facility	CHICOPEE, MA
2/01/2016 - Monday		
11:08 pm	Departed FedEx location	WELLINGTON, CT
6:28 pm	Arrived at FedEx location	WELLINGTON, CT
1/29/2016 - Friday		
10:11 pm	Left FedEx origin facility	FORT MILL, SC
7:27 pm	Arrived at FedEx location	FORT MILL, SC
2:10 pm	Picked up	FORT MILL, SC
1/28/2016 - Thursday		
5:25 pm	In FedEx possession Package received after final location pickup has occurred. Scheduled for pickup next business day.	CHARLOTTE, NC
4:30 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	775525610594	**Service**	FedEx Ground
Reference	80	**Master tracking number**	775525609671
Weight	25 lbs / 11.34 kgs	**Total pieces**	2
Total shipment weight	50 lbs / 22.68 kgs	**Terms**	Third Party
Packaging	Package		

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con-test® ANALYTICAL LABORATORY

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

AIR Only Receipt Checklist

CLIENT NAME: S + ME **RECEIVED BY:** JDL **DATE:** 2/2/16

1) Was the chain(s) of custody relinquished and signed? Yes No

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) Are there any samples "On Hold"? Yes No Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

6) Location where samples are stored: Air

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

7) Number of cans Individually Certified or Batch Certified? _____

Containers received at Con-Test

	# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)	5	6L
Tedlar Bags		
TO-17 Tubes		
Regulators	5	8hr
Restrictors		
Hg/Hopcalite Tube (NIOSH 6009)		
(TO-4A/ TO-10A/TO-13) PUFs		
PCB Florisil Tubes (NIOSH 5503)		
Air cassette		
PM 2.5/PM 10		
TO-11A Cartridges		
Other		

Unused Summas/PUF Media:

Unused Regulators:

1) Was all media (used & unused) checked into the WASP?

2) Were all returned summa cans, Restrictors & Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments: Summa: 1328 1345 1283 1085 1008 Reg: 3209 3208 3553 3306 3552

Login Sample Receipt Checklist
(Rejection Criteria Listing - Using Sample Acceptance Policy)
Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The coolers'/boxes' custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	NA	
4) Cooler Temperature is acceptable.	NA	
5) Cooler Temperature is recorded.	NA	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) Samples are received within Holding Time.	T	
10) Sample containers have legible labels.	T	
11) Containers/media are not broken or leaking and valves and caps are closed tightly.	T	
12) Sample collection date/times are provided.	T	
13) Appropriate sample/media containers are used.	T	
14) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
15) Trip blanks provided if applicable.	NA	

Who notified of False statements? **Date/Time:**

Doc #278 Rev. 5 October 2014 **Log-In Technician Initials:** ODL **Date/Time:** 2/2/16 1237

Appendix VI – Field Forms

CONTENTS

PAGE	REFERENCE	DATE

Location Petty Machine Company Date 1/6/16

Project / Client Facility Characterization SY

4335-15-109 Ph 4

748 leave office

832 Arrive @ site

meet w/ Mr. Larry Petty

discuss decon pad locations & drum storage area

drums are plastic, call AJ to discuss, decide they are ok

915 Contact T. Bolyard (EDPS), re: driller location

leave message

921 T. Bolyard returns call, equipment froze overnight resulting in late start, drillers ~20 min out

947 T. Bolyard calls, he called drill crew instructing them to stop so he could bring them decon pad supplies.

Drill Crew ETA ~ 10:10

1015 EDPS onsite

discuss project scope

conduct HSS tailgate

unload Geoprobe (7822DT)

1040 mob to MW-7C loc

start MW-7C drill

HC 1st 5'

0 - ~~0.25~~ 0.5 grass + organics

0.5 - 3 Orngish Rd sandy CLAY, w/some silt

3 - 5 Orngish Rd silty CLAY

Rite in the Rain

Location Petty Machine Company Date 1/6/16

Project / Client Facility Characterization SY

4335-15-109 PA4

5-10 ~~10-15~~ SY 1/6 Macrocore Breathing Zone 0.0ppm @1105

Reddish Orange silty CLAY, tight w/occasl qtz + feldspar frags, + orange yellow mottling

10-15 Macrocore

10-11 as 5-10 above

11-15 Orangish ~~Yellow~~ Tan silty CLAY, tight SY 1/6

15-20 Macrocore

15-16.5 as 11-15 above

16.5-20 Lt Brn to Brn Sandy CLAY, w/occasl qtz + drk min frags

Breathing Zone @ 1127 - 0.0ppm

20-25 Macrocore

As 16.5-20 Above, soft, slight drk min layering @ ~22', moist @ 23'

25-30 Macrocore

Lt Brn silty CLAY, w/occasl qtz frags drk min layering, soft, moist

35-40 Macrocore

35-37.5 ~~As 25-30 Above~~

37.5-~~40~~ Orangish Brn silty CLAY, soft moist, w/qtz + drk min frags, wet @ ~39'

PIDs (ppm)

0-5 - 0.1ppm

5-10 - 0.0ppm

10-15 - 0.0ppm

15-20 - 0.0ppm

20-25 - 0.1ppm

25-30 - 0.1ppm

30-35 - 0.2ppm

35-40 - 0.2ppm

40-45 - 0.2ppm

45-50 - 0.0ppm

50-55 - 0.6ppm

55-60 - 2.0ppm

60-65 - 2.1ppm

65-70 - 4.1ppm

70-75 - 1.8ppm

75-80 - 4.5ppm

80-85 - 5.7ppm

Location Petty Machine Company Date 1/6/16

Project / Client Facility Characterization SY

4335-~~115~~ 15-109 PA4

30-35 Macrocore

30-32.5 As 25-30 Above

32.5-35 Orangish Brn silty CLAY, soft moist, w/qtz + drk min frags, wet @ ~34'

35-40 Macrocore

Lt Brn silty CLAY, soft, wet, w/occasl qtz mica + drk min frags

Breathing zone @ 1205 - 0.0ppm

40-45 Macrocore

40-44 As 35-40 Above

44-45 Lt Reddish Brn silty CLAY tight, wet, w/qtz, mica, fspar, + drk min frags

45-50 Macrocore

Lt Brn ~~silty~~ sandy CLAY, tight, wet, w/relict banding, qtz, mica, fspar, + drk min frags

Breathing zone @ 1400 - 0.0ppm

50-55 Macrocore

Saprolite, sandy SILT, tight, wet heavy relict banding, qtz, mica, fspar, + drk min frags

Rite in the Rain

Location Petty Machine Shop Date 1/6/16

Project / Client Facility Characterization SY
4335-15-109 Ph4

55-60 Macrocore Breathing zone @ 1432 -0.0ppm
As 50-55 Above, increasing min frg size
gneiisic banding
60-65 Macrocore
As 55-60 Above increasing dirk min + fspar content
Breathing zone -1500 - 0.0ppm
65-70 Macrocore
As 60-65 Above Breathing zone @ 1531
0.0 ppm
70-75 Macrocore
As 65-70 Above
75-80 Macrocore Breathing zone @ 1600
As 70-75 Above 0.0ppm
80-85 Macrocore Breathing zone @ 1632
As 75-80 Above 0.0ppm

Terminate probe due to lack of light.

1707 Mob rig to main portion of site
Set up decon pad, ~~decon rig~~
Upon constructing decon pad, drillers realize
no nails available, decide to arrive @ site earlier
tommorrow to construct pad + decon rig
1729 leave site
1811 Arrive @ office

Location Petty Machine Company Date 1/7/16

Project / Client Facility Characterization SY + BW
4335-15-109 Ph4

820 leave office
902 SY Arrive onsite
EDPS present
904 BW onsite
inform site were onsite
discuss scope + sample locs w/ BW
call lab request more bottles, will deliver to site
SY 1/7 ~~9~~ Conduct H+S meeting
955 SY mob to MW-7C loc (Cantera CT-450)
BW mobs w/ Geoprobe crew to main site sample locs
1020 Rig gets stuck, able to get unstuck
setup on MW-7C
1040 Begin drilling
Breathing zone @ 1054 - 0.0ppm
lithology 0-85 see 1/6/16 notes
Start w/ 8 1/4" HSA
Breathing zone @ 1132 - 0.0ppm
1200 Break for lunch
1300 Return to site
1302 Breathing zone - 0.0ppm
1334 Breathing zone - 0.0ppm
1405 Breathing zone - 0.0ppm
1440 Breathing zone - 0.0ppm
Can only get to ~62-63' w/ HSA, switch to tri-cone

Rite in the Rain

Location Petty Machine Company Date 1/7/16

Project / Client Facility Characterization SY & BW
4335-15-109 Ph4

Breathing zone @1515 - 0.0 ppm
Tri-cone bit too large to fit in augers
Contact Al Quarles to discuss path forward
leave message
Al Q returns call, discuss situation
Decide EDPS to bring different tri-cone bit
in the am, SY to continue oversight of MW-7C
Install, will return Monday to oversee last of MW-7C
install, then will mob to main side w/ geoprobe
crew to finish those borings.

1645 leave site
1728 Arrive @ office

SY 1/7/16

Location Petty Machine Company Date 1/8/16

Project / Client Facility Characterization SY
4335-15-109 Ph4

745 leave office
828 Arrive @ site
905 EDPS onsite
Conduct H&S meeting
mob grouter and support truck to
MW-7C location
938 Begin drilling MW-7C w/ new tri-cone bit
1002 Breathing zone 0.0 ppm
85 - 100 same min content as previous,
high dilk minerals, some quartzite
PIDs due to drilling method structure.
90 - 0.0 ppm description not possible, wet drilling
95 - 0.0 ppm 1029 Breathing zone 0.0 ppm
100 - 0.0 ppm 1040 borehole becomes clogged w/ soil
no air passing thru, try to washout
+ clean borehole
1102 Breathing zone 0.0 ppm
Pull all rods (5), tricone bit was
clogged, clean out, return to drilling @ 1140
1135 Breathing zone 0.0 ppm
100 - ~~130~~ 125 Same as above, cuttings too wet for AED
EDPS adding water to rods to keep borehole open
~30 gal total
1203 Breathing zone 0.0 ppm
1231 Breathing zone 0.0 ppm

Rite in the Rain

Location Petty Machine Company Date 1/8/16

Project / Client Facility Characterization SY

4335-15-109 Ph4

1303 Breathing zone 0.0ppm

Set outer casing @ 125', V. Hard drilling from 115'-125'

contact Al Quarles & inform of outer casing depth

Begin grouting casing & pulling HSAs

1700 Finishing grouting outer casing

1710 leave site

1758 Arrive @ office

SY 1/8/16

Location Petty Machine Company Date 1/11/16

Project / Client Facility Characterization SY

4335-15-109 Ph4

725 leave office

808 Arrive @ site

827 EDPS onsite

Conduct H&S Meeting

Mob to MW-7C location

903 Begin drilling inner casing @ MW-7C, air hammer

125-

935 Breathing zone - 0.0ppm

clutch burned out on air compressor on air rig EDPS in process of renting an air compressor

1004 Geoprobe Crew onsite

mob to AOC1-2

1020 Begin probing AC1-2

0-5' Macrocore

0-4' Reddish Brn silty CLAY, w/ misc frags

4-5' Reddish Brn to Brn sandy SILT

5-10 Macrocore

5-8.5 Reddish Brn silty CLAY, w/ misc frags

8.5-9 Grayish Brn silty CLAY, damp,

9-10 Reddish Brn ~~silty~~ CLAY, tight, dry SY 1/11

10-15 Macrocore

10-14 As 9-10 Above

14-15 Orangish Red silty CLAY, tight

Rite in the Rain

Location Petty Machine Company Date 1/11/16

Project / Client Facility Characterization SY
4335-15-109 Ph

15-20 Macrocore
15-18 Orngish Tan silty CLAY
18-20 Orngish Tan clayey SILT
20-25 Macrocore
As 18-20 Above
25-30
As 20-25 Above, qtz + mica frags start @ ~27'
30-35
30-34 As 25-30 Above
34-35 Drk Brn clayey SILT, damp, 2 1/8 qtz frags @ 34
35-40
35-38 Orngish Tan clayey SILT, damp
38-40 Lt Brn silty SAND, wet
Terminate Probe @ 40

PIDs (ppm)		Samp Times
5 - 0.0	25 - 0.3	SL-ACI-2 (15-20)
10 - 0.1	30 - 0.3	@ 1110
15 - 0.1	35 - 0.1	SL-ACI-2 (35-38)
*20 - 0.1	*38 - 0.2	@ 1115

1120 Begin probing ACI-1
0-5 Macrocore
Brnish Drk Rd sandy SILT

Location Petty Machine Company Date 1/11/16

Project / Client Facility Characterization SY
4335-15-109 Ph4

5-10 Macrocore
5-7.5 Brnish Drk Rd silty CLAY, tight w/mica frags
7.5-10 Grayish Brn silty CLAY
10-15 Macrocore
10-12.5 as 7.5-10 Above
12.5-15 Rddish Brn silty CLAY, tight, w/mica frags
15-20 Macrocore
15-16.5 Rddish Brn Tan silty CLAY, tight w/mica frags
16.5-20 Lt Brn Sandy CLAY, w/qtz + mica frags
20-25 Macrocore
20-21 As 16.5-20 Above
21-25 Tan to White sandy SILT, w/qtz, mica, + drk min, + feldspar frags
25-30 Macrocore
As 21-25 Above
30-35 Macrocore
Lt Brn Sandy CLAY, w/qtz, mica, + drk min frags

PIDs (ppm)		Sample Times
5 - 0.0	25 - 12.9	SL-ACI-1 (10-15) 1210
10 - 0.0	30 - 13.8	SL-ACI-1 (35-40) 1220
*15 - 7.5	35 - 1.6	
20 - 1.1	*40 - 1.8	

Rite in the Rain

Location Petty Machine Company Date 1/11/16

Project / Client Facility Characterization
4335-15-109 Ph04

35-40 Macrocore
35-39 Lt Brn sandy CLAY, w/qtz, mica + drk min frgs
39-40 Orngish Brn clayey SAND, damp, w/qtz + drk min frgs
40-45
40-41 As 35-40 Above
41-45 Brn ~~san~~ clayey SAND, w/qtz mica frgs wet
Terminate probe @ 45'

Setup on AOC2-1
HA 5'
0-1.0 Drk Gry f. grained SAND
1.0-5.0 Orngish Rd silty CLAY, w/mica frgs

PIDs (ppm)		Sampletimes
0-0.5	0.0	1405 - DUP
4.5-5	0.0	1410

Attempt to collect SWMU-1 Samples, Geoprobe too large to get thru doors, call HQ + inform, agree on drillers plan to bring concrete corer + hand auger borings, will also have air compressor onsite to finish install of MW-7C

1506 leave site
1540 Arrive @ office

SJ 1/11/16

Location Petty Machine Company Date 1/12/16

Project / Client Facility Characterization
4335-15-109 Ph4

728 leave office
818 Arrive @ site
EDPS present
Conduct HAS Meeting
EDPS moves air compressor into position + connects to rig
850 Mob to MW-7C location
bits are frozen for ~~air~~ 1/12 air rig, EDPS attempting to unfreeze
933 Geoprobe crew goes to core holes for SWMU-1 samples
1054 Rods + bits unfrozen + unclogged
Begin drilling MW-7C
125-143 Same composition as previous producing good amount of water, highly fractured
1112 Breathing zone 0.0 ppm
1141 Breathing zone 0.0 ppm
Having issues breaking rods, mob to topside w/geoprobe crew while air drillers reach solution

Setup on SM-1-1 PIDs (ppm) 0-1-0.6
9-10-2.4
0-0.33 Concrete
0.33-10 Reddish Brn silty CLAY, w/mica frgs

Rite in the Rain

Location Petty Machine Company Date 1/12/16

Project / Client Facility Characterization
4335-15-109

Setup on SM1-2 PIDs(ppm) 0-1-0.1
0-0.5 Concrete 9-10-1.4
0.5-10 Radish Brn silty CLAY, w/ mica frgs
Samp Times SL-SM1-1(0-1) ~1430 (DUP also)
SL-SM1-1(9-10) ~1435
SL-SM1-2(0-1) ~1440
SL-SM1-2(9-10) ~1445

Decon HA + collect EB-2 off it @ 1515
Complete FB-1 @ 1520
Mob back to MW-7C to remove rods + set well
~~Drillers using~~ finish removing rods + completing well
BM 1/12/16

Drillers using 5' scrn, contact HQ + discuss decide to use 5' scrn, but bring sand pack to 133'

~~MW-7C Construction~~
~~scrn 138' - 143'~~ BM
~~sand 133' - 143'~~ 1/12/16
~~bent 131' - 133'~~
~~inner grout 0 - 131'~~
~~outer grout 0 - 125'~~

~~well~~ Borehole collapse to 133'. Call HQ + discuss, highly fractured 133'-143', decide to set @ 133' w/ 1' sand above casing

Location Petty Machine Company Date 1/12/16

Project / Client Facility Characterization
4335-15-109

MW-7C Construction
scrn 128 - 133
sand 127 - 133
bent 125 - 127
inner grout 0 - 125
outer grout 0 - 125'
1700 leave site
1745 Arrive @ office

BM 1/12/16

Rite in the Rain

CONTENTS

PAGE	REFERENCE	DATE

Location Petty Machine Co. Date 1-7-16

Project / Client Facility Characterization
4335-15-109 Ph 4

AOS 0900
- Met w/ Scott Young & EDPS
- Discussed scope, locations, samples etc
- Held H&S meeting
- EDPS Personnel build decon pad & decon Geoprobe Tool string

1000 EDPS Begins set up of Air Rig

1030 Set up Geoprobe on AOC2-4

0-3" Asphalt
3-6" ABC STONE
6"-7' MICACEOUS BRRED Slightly Cly Fine sandy silt
NOTE: DRILLERS USING UNDERSIZED SHOE ON Geoprobe Macrocore - Limited SAMPLE RECOVERY 0-5'
7'-10 Red BROWN MICAC FINE SANDY SILT
PID READINGS
0-1 0.2 ppm
5-6 0.3 ppm
9-10 0.2 ppm

Rite in the Rain

Location Petty Machine Date 1-7-16

Project / Client Facility Characterization

4335-15-109 Ph 4 BEW

SL-AC2-4 (0-1) Collected @ 1045
SL-AC2-4 (9-10) 1048

1051 Set up & Begin AOC 2-3

0-3" GRAVEL
3"-7' BR RED MICAC slightly clayey Fi SA SILT
7' White Br Micac Fi SANDY SILT

PID READINGS

0-1	0.1	ppm
4-5	0.3	ppm
9-10	0.1	ppm

SL-AC2-3 (0.1) Collected @ 1102
SL-AC2-3 (9-10) @ 1104

Location Petty Machine Date 1-7-16

Project / Client Facility Characterization

4335-15-109 Ph 4 BEW

1102 Set up & begin AOC 2-2

0-7' BR RED MICAC SLIGHTLY CLAYEY Fi SA SILT
7' Red Brown Micac Fi SANDY SILT

PID READINGS

0-1	0.1	ppm
4-5	0.2	ppm
9-10	0.1	ppm

SL-AC2-2 (0-1) collected @ 1112
SL-AC2-2 (9-10) @ 1114

1111 EDPS DECON TOOLING
1130 Decon complete - begin set up AOC 1-4
- NOTICED Plungers missing from sample kits for VOCs -
- Scott Young contacted lab & they are bringing necessary sample equipment to site
1150 BREAK FOR LUNCH
1250 - Lab delivered extra equipment and containers

Rite in the Rain

Location Petty Machine Date 1-7-16

Project / Client Facility Characterization

4335-15-109 Ph 4 BEW

1300 Begin AOC 1-4 boring

0-4.5 Brown Red Micac Slightly Clayey Fine SANDY SILT (FILL)

4.5-5 Tan Brown Micac Fi SA SILT

5-9 Br Red Micac Slightly Clayey Fi Sa SILT

9-11 Tan Brown Micac Fi SA SILT

11-19 Br Red Micac Slightly Clayey Fi SA SILT

* Macrocore FROM 15-20 Filled w/ Water

Drillers estimate water @ approx 16'

1320 Call Al Quarles & discuss

1340 used Tag line to estimate wl in MW-8. wl ~ 43' BIS

1355 Contacted Al Quarles - Extend boring to 25' & call back. Assumed to be perched water (Resume boring @ 1400)

19-28 Tan Red Slightly Clayey Fi SANDY SILT (RED)

28-33 Tan Red Fi/MED SA SILT

33 Red Br Fi SANDY SILT

Location Petty Machine Date 1-7-16

Project / Client Facility Characterization

4335-15-109 Ph 4 BEW

AOC 1-4

PID READINGS		SAMPLE ID	TIME
5	0.2 ppm		
10	0.0 ppm		
15	0.2 ppm		
20	1.0 ppm	SL-AC1-4 (19-20)	1455
25 ~~25~~ BEW	0.8 ppm		
30 ~~30~~ BEW	1.7 ppm		
35	1.7 ppm	SL-AC1-4 (34-35)	1457
40	1.0 ppm		

NOTES: ORIGINAL BORING ABANDONED @ 20' offset ~ 8" & Pushed 3" Probe Tip to 20' & Resumed Macrocore sampling. Perched water continuing to enter boring - SAMPLES/SOILS ARE DRY

1450 Boring terminated @ 40'
Move Rig & decon barrels

Rite in the Rain

Location Pettry Machine Date 1/7/16

Project / Client Facility Characterization

4335-15-109 Ph 4 BEW

1508	Begin AOC 1-3
0-5	Red Br Clayey Silty Fi/Med SAND (FILL)
5-12	BR Red Slightly Clayey Micac Fi/Med SANDY SILT
12-17	BR RED Fi-SA Clayey Silt
17-22	BR Red Slightly Clayey Fi Sandy Silt (PESID)
22-31	White Tan Br Fi-SA SILT
31-34	BR TAN FINE SANDY SILT
34	TAN WHITE SILTY Fi/MED SAND

Location Pettry Machine Date 1/7/16

Project / Client Facility Characterization

4335-15-109 Ph 04 BEW

AOC 1-3

PID	READINGS	SAMPLE ID	TIME
5	0.0 ppm		
10	0.1 ppm		
15	2.7 ppm		
20	23.6 ppm	SL-AC1-3 (19-20)	1530
25	35.8 ppm		
30	27.7 ppm		
35	49.2 ppm		
40	58.6 ppm	SL-AC1-3 (39-40)	1610
		SL-AC1-3-DUP	

Collected Equipment Blank EB-1 @ 1625

Site departure @ 1645

END

Brittish

Rite in the Rain

Location Petty Machine Date 1/22/16

Project / Client Facility Characterization

4335-15-109 Ph 4

B. Wilson, M. Brundage

AOS 0815

Matt Brundage onsite. I was late Due to heavy traffic & Accidents on highways. Reported to office & checked in. Held H&S meeting & discussed Scope.

Observed inside building & sample locations Assembled Summa Cans

BACKGROUND IA-VI-BG

SUMMA CAN # 1085

Flow Controller # 3306

START 0902 VAC -30

END 1627 VAC - 8 Hg

IA-VI-3

Summa Can # 1008

Flow Controller # 3552

Start 0905 VAC -29

END 1622 VAC - 8 Hg

Location Petty Machine Date 1/22/16

Project / Client Facility Characterization

4335-15-109 Ph 4

IA-VI-2

Summa Can # 1283

Flow Controller # 3553

Start 0906 VAC -29

END 1623 VAC - 10 Hg

IA-VI-1

SUMMA CAN # 1328

Flow Controller # 3209

Start - 0910 VAC -28

END - 1624 VAC - 7 Hg

IA-VI-DUP

Summa Can # 1354

Flow Controller # 3208

Start 0910 VAC -30

END - 1624 VAC - 8 Hg

Photographed Summa Can locations Filled in COC as much as possible

0945 Bump test verification of Horiba U52 multimeter VTA6RG5E

* Kept calibration Report From Enviro Equipment.

Rite in the Rain

Location Petty Machine Date 1/27/16

Project / Client Facility Characterization

4335-15-109 Ph 4 BEW

1005 Collect EB-3

Carry equipment to MW-7C

1025 begin equipment setup

MW-7C DTW @ TOC 30.27

1049 Pump Set

1050 Pump ON

1055 Flow Adjusted TO 200 mL/MIN

Connect to Flow Cell (Purged ~2 gal prior)

TIME	Temp °C	pH	ORP MV	Cond MS/CM	Turb NTU	DO mg/L
1057	15.49	6.41	258	0.133	0	18.33
1100	15.67	6.56	249	0.131	>1000	9.49
1103	15.68	6.62	242	0.126	579	7.35
1106	15.85	6.63	239	0.123	322	6.74
1109	15.96	6.64	233	0.120	178	5.98
1112	15.97	6.64	231	0.119	151	5.99
1115	16.01	6.63	228	0.118	120	5.92
1118	16.01	6.63	225	0.118	103	5.99
1121	16.24	6.61	222	0.117	73.9	6.19
1124	16.42	6.61	218	0.117	60.3	6.14
1127	16.42	6.61	214	0.115	31.3	8.10

1130 Collect SAMPLES

MW-7C

DUP

Location Petty Machine Date 1/27/16

Project / Client Facility Characterization

4335-15-109 Ph 4 BEW

Containerize purge fluids in on site DRUM. TOTAL PURGE ~7 gal.

Pack up sampling equipment

1200 Record Vacuum Readings on Summa Cans.

Summa # 1085 - Req # 3306 = 22 Hg @ 12:02

Summa # 1008 - Req # 3552 = 22 Hg @ 12:03

Summa # 1233 - Req # 3553 = 21 Hg @ 12:04

Summa # 1345 - Req # 3208 = 22 Hg @ 12:06

Summa # 1328 - Req # 3209 = 20 Hg @ 12:06

1225 B. Wilson Departs site

Rite in the Rain

Location Petty Machine Date 1/27/16

Project / Client Facility Characterization

4335-15-109 - Ph 4 MJB

1450 Record Vac Readings of Summas

Summa# 1085 / Req# 3306 = 12 Hg @ 1450
Summa# 1008 / Req# 3552 = 14 Hg @ 1453
Summa# 1283 / Req# 3553 = 14 Hg @ 1454
* Very Strong odor of Paints *

Summa# 1345 / Req# 3208 = 12 Hg @ 1455
Summa# 1328 / Req# 3209 = 11 Hg @ 1455

Machine Shop Closing @ 16:30 —

Collect Summa Cans and Record Vacs
IA-VI-1 Summa Can# 1328 / Req# 3209 = 7 Hg
IA-VI-2 Summa Can# 1283 / Req# 3553 = 10 Hg
IA-VI-3 Summa CAN# 1008 / Req# 3552 = 8 Hg
IA-VI-Dup Summa Can# 1354 / Req# 3208 = 8 Hg
IA-VI-BG Summa Can# 1085 / Req# 3306 = 8
Complete C.O.C
Transfer purge water into one Drum
pack-up Summa Cans + Controller

MB off site @ 1710 END

Matthew Bradley

Location Date

Project / Client

Rite in the Rain

Date: 1/27/2016

Photographer: Brian Wilson

7	**Location / Orientation**	Metal Plating Room, looking south
	Remarks	Indoor Air Sample VI-1, including Duplicate

Date: 1/27/2016

Photographer: Brian Wilson

8	**Location / Orientation**	Metal Plating Room, looking southwest
	Remarks	Indoor Air Sample VI-1, including Duplicate

Date: 1/27/2016

Photographer: Brian Wilson

9	**Location / Orientation**	Bench south of Restrooms
	Remarks	Indoor Air Sample VI-2

Date: 1/27/2016

Photographer: Brian Wilson

10	**Location / Orientation**	Storage Area south of loading dock
	Remarks	Indoor Air Sample VI-3

Date: 1/27/2016

Photographer: Brian Wilson

11	**Location / Orientation**	North of Former Metal Plating Bldg, looking west
	Remarks	Background Outdoor Ambient Vapor Sample VI-BG

Date: 1/27/2016

Photographer: Brian Wilson

12	**Location / Orientation**	North of Former Metal Plating Bldg, looking northeast
	Remarks	Background Outdoor Ambient Vapor Sample VI-BG

Appendix VII – Indoor Air Exposure Calculations

IHSB -Brownfields Vapor Intrusion Calculator - Based on OSWER VAPOR INTRUSION ASSESSMENT
Indoor Air Concentration to Risk (IAC-Risk) Calculator Version 3.45, November 2015 RSLs

Site Name Petty Machine Company , Site ID NCD991278805 City
IA-VI-3

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column E)
Target Hazard Quotient for Non-Carcinogens	THQ	0.2	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column F)

CAS	Chemical Name	Site Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Indoor Air Screening Level (ug/m3)	Inhalation Unit Risk IUR (ug/m^3)$^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
75-34-3	Dichloroethane, 1,1-	3.50E-01	4.6E-08	No RfC	7.67E+01	1.60E-06	CA			
75-35-4	Dichloroethylene, 1,1-	1.50E+01	No IUR	1.7E-02	1.75E+02			2.00E-01	I	
127-18-4	Tetrachloroethylene	3.30E+00	7.0E-08	1.9E-02	3.50E+01	2.60E-07	I	4.00E-02	I	
71-55-6	Trichloroethane, 1,1,1-	4.20E+00	No IUR	1.9E-04	4.38E+03			5.00E+00	I	
79-01-6	Trichloroethylene	1.40E+00	4.7E-07	1.6E-01	1.75E+00	see note	I	2.00E-03	I	TCE
	If cumulative risk >1E-O4 or cumulative HQ>1 Unacceptable	**Risk/Cumulative HQ HQ**	5.8E-07	2.0E-01						

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

		Residential		Commercial		Selected (based on scenario)	
Averaging time for carcinogens	(yrs)	ATc_R_IA	70	ATc_C_IA	70	ATc_IA	70
Averaging time for non-carcinogens	(yrs)	ATnc_R_IA	26	ATnc C IA	25	ATnc IA	25
Exposure duration	(yrs)	ED_R_IA	26	ED_C_IA	25	ED_IA	25
Exposure frequency	(days/yr)	EF_R_IA	350	EF_C_IA	250	EF_IA	250
Exposure time	(hr/day)	ET_R_IA	24	ET_C_IA	8	ET_IA	8

(2) **Generic Attenuation Factors:**

Source Medium of Vapors		Residential Symbol	Value	Commercial Symbol	Value	Selected (based on scenario) Symbol	Value
Groundwater	(-)	AFgw_R_IA	0.001	AFgw_C_IA	0.001	AFgw_IA	0.001
Sub-Slab and Exterior Soil Gas	(-)	AFss_R_IA	0.03	AFss_C_IA	0.01	AFss_IA	0.01

(3) **Formulas**

Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

Trichloroethylene	Residential Symbol	Value	Commercial Symbol	Value	Selected (based on scenario) Symbol	Value
	mIURTCE_R_IA	1.00E-06	mIURTCE_C_IA	0.00E+00	mIURTCE_IA	0.00E+00
	IURTCE_R_IA	3.10E-06	IURTCE_C_IA	4.10E-06	IURTCE_IA	4.10E-06

Mutagenic Chemicals — The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride — See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:

I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml
A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: http://www.atsdr.cdc.gov/mrls/index.html
CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: http://epa-heast.ornl.gov/heast.shtml
S = See RSL User Guide, Section 5
X = PPRTV Appendix

IHSB -Brownfields Vapor Intrusion Calculator - Based on OSWER VAPOR INTRUSION ASSESSMENT
Indoor Air Concentration to Risk (IAC-Risk) Calculator Version 3.45, November 2015 RSLs

Site Name Petty Machine Company , Site ID NCD991278805 City
IA-VI-3

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column E)
Target Hazard Quotient for Non-Carcinogens	THQ	0.2	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column F)

CAS	Chemical Name	Site Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard	Indoor Air Screening Level (ug/m3)	Inhalation Unit Risk	IUR Source*	Reference Concentration	RFC Source*	Mutagenic Indicator
		Cia	CR	HQ		IUR		RfC		
		(ug/m^3)				(ug/m^3)$^{-1}$		(mg/m^3)		i

Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
Pink highlighting indicates VI carcinogenic risk greater than the target risk for carcinogens (TCR) or VI Hazard greater than or equal to the target hazard quotient for non-carcinogens (THQ).

IHSB -Brownfields Vapor Intrusion Calculator - Based on OSWER VAPOR INTRUSION ASSESSMENT
Indoor Air Concentration to Risk (IAC-Risk) Calculator Version 3.45, November 2015 RSLs

Site Name Petty Machine Company , Site ID NCD991278805 City
Sample set: IA-VI-1

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column E)
Target Hazard Quotient for Non-Carcinogens	THQ	0.2	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column F)

CAS	Chemical Name	Site Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Indoor Air Screening Level (ug/m3)	Inhalation Unit Risk IUR (ug/m^3)$^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
75-34-3	Dichloroethane, 1,1-	3.60E-01	4.7E-08	No RfC	7.67E+01	1.60E-06	CA			
107-06-2	Dichloroethane, 1,2-	1.20E-01	2.5E-07	3.9E-03	4.72E+00	2.60E-05	I	7.00E-03	P	
75-35-4	Dichloroethylene, 1,1-	1.10E+01	No IUR	1.3E-02	1.75E+02			2.00E-01	I	
127-18-4	Tetrachloroethylene	7.80E-01	1.7E-08	4.5E-03	3.50E+01	2.60E-07	I	4.00E-02	I	
71-55-6	Trichloroethane, 1,1,1-	4.80E+00	No IUR	2.2E-04	4.38E+03			5.00E+00	I	
79-01-6	Trichloroethylene	**2.20E+00**	7.4E-07	**2.5E-01**	1.75E+00	see note	I	2.00E-03	I	TCE
	If cumulative risk >1E-O4 or cumulative HQ>1 Unacceptable	**Risk/Cumulative**	1.1E-06	**2.7E-01**						
		HQ								
		HQ								

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

		Residential		Commercial		Selected (based on scenario)	
Averaging time for carcinogens	(yrs)	ATc_R_IA	70	ATc_C_IA	70	ATc_IA	70
Averaging time for non-carcinogens	(yrs)	ATnc_R_IA	26	ATnc_C_IA	25	ATnc_IA	25
Exposure duration	(yrs)	ED_R_IA	26	ED_C_IA	25	ED_IA	25
Exposure frequency	(days/yr)	EF_R_IA	350	EF_C_IA	250	EF_IA	250
Exposure time	(hr/day)	ET_R_IA	24	ET_C_IA	8	ET_IA	8

(2) **Generic Attenuation Factors:**

		Residential		Commercial		Selected (based on scenario)	
Source Medium of Vapors		**Symbol**	**Value**	**Symbol**	**Value**	**Symbol**	**Value**
Groundwater	(-)	AFgw_R_IA	0.001	AFgw_C_IA	0.001	AFgw_IA	0.001
Sub-Slab and Exterior Soil Gas	(-)	AFss_R_IA	0.03	AFss_C_IA	0.01	AFss_IA	0.01

(3) **Formulas**

Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

	Residential		Commercial		Selected (based on scenario)	
Trichloroethylene	**Symbol**	**Value**	**Symbol**	**Value**	**Symbol**	**Value**
	mIURTCE_R_IA	1.00E-06	mIURTCE_C_IA	0.00E+00	mIURTCE_IA	0.00E+00
	IURTCE_R_IA	3.10E-06	IURTCE_C_IA	4.10E-06	IURTCE_IA	4.10E-06

Mutagenic Chemicals

The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride

See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:

I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml
A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: http://www.atsdr.cdc.gov/mrls/index.html
CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: http://epa-heast.ornl.gov/heast.shtml
S = See RSL User Guide, Section 5

IHSB -Brownfields Vapor Intrusion Calculator - Based on OSWER VAPOR INTRUSION ASSESSMENT
Indoor Air Concentration to Risk (IAC-Risk) Calculator Version 3.45, November 2015 RSLs

Site Name Petty Machine Company , Site ID NCD991278805 City
Sample set: IA-VI-1

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column E)
Target Hazard Quotient for Non-Carcinogens	THQ	0.2	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column F)

CAS	Chemical Name	Site Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard	Indoor Air Screening Level (ug/m3)	Inhalation Unit Risk	IUR Source*	Reference Concentration	RFC Source*	Mutagenic Indicator
		Cia	CR	HQ		IUR		RfC		
		(ug/m^3)				(ug/m^3)$^{-1}$		(mg/m^3)		i

X = PPRTV Appendix
Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
Pink highlighting indicates VI carcinogenic risk greater than the target risk for carcinogens (TCR) or VI Hazard greater than or equal to the target hazard quotient for non-carcinogens (THQ).

IHSB -Brownfields Vapor Intrusion Calculator - Based on OSWER VAPOR INTRUSION ASSESSMENT
Indoor Air Concentration to Risk (IAC-Risk) Calculator Version 3.45, November 2015 RSLs

Site Name Petty Machine Company , Site ID NCD991278805 City
IA-VI-2

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column E)
Target Hazard Quotient for Non-Carcinogens	THQ	0.2	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column F)

CAS	Chemical Name	Site Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Indoor Air Screening Level (ug/m3)	Inhalation Unit Risk IUR (ug/m^3)$^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
75-34-3	Dichloroethane, 1,1-	7.60E-01	9.9E-08	No RfC	7.67E+01	1.60E-06	CA			
75-35-4	Dichloroethylene, 1,1-	1.00E+01	No IUR	1.1E-02	1.75E+02			2.00E-01	I	
127-18-4	Tetrachloroethylene	1.20E+00	2.5E-08	6.8E-03	3.50E+01	2.60E-07	I	4.00E-02	I	
71-55-6	Trichloroethane, 1,1,1-	7.60E+00	No IUR	3.5E-04	4.38E+03			5.00E+00	I	
79-01-6	Trichloroethylene	**1.90E+00**	6.4E-07	**2.17E-01**	1.75E+00	see note	I	2.00E-03	I	TCE
	If cumulative risk >1E-O4 or cumulative HQ>1 Unacceptable	**Risk/Cumulative HQ HQ**	7.6E-07	**2.36E-01**						

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

		Residential		Commercial		Selected (based on scenario)	
Averaging time for carcinogens	(yrs)	ATc_R_IA	70	ATc_C_IA	70	ATc_IA	70
Averaging time for non-carcinogens	(yrs)	ATnc_R_IA	26	ATnc C IA	25	ATnc IA	25
Exposure duration	(yrs)	ED_R_IA	26	ED_C_IA	25	ED_IA	25
Exposure frequency	(days/yr)	EF_R_IA	350	EF_C_IA	250	EF_IA	250
Exposure time	(hr/day)	ET_R_IA	24	ET_C_IA	8	ET_IA	8

(2) **Generic Attenuation Factors:**

Source Medium of Vapors		Residential Symbol	Value	Commercial Symbol	Value	Selected (based on scenario) Symbol	Value
Groundwater	(-)	AFgw_R_IA	0.001	AFgw_C_IA	0.001	AFgw_IA	0.001
Sub-Slab and Exterior Soil Gas	(-)	AFss_R_IA	0.03	AFss_C_IA	0.01	AFss_IA	0.01

(3) **Formulas**

Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

Trichloroethylene	Residential Symbol	Value	Commercial Symbol	Value	Selected (based on scenario) Symbol	Value
	mIURTCE_R_IA	1.00E-06	mIURTCE_C_IA	0.00E+00	mIURTCE_IA	0.00E+00
	IURTCE_R_IA	3.10E-06	IURTCE_C_IA	4.10E-06	IURTCE_IA	4.10E-06

Mutagenic Chemicals — The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride — See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:

I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml
A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: http://www.atsdr.cdc.gov/mrls/index.html
CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: http://epa-heast.ornl.gov/heast.shtml
S = See RSL User Guide, Section 5
X = PPRTV Appendix

IHSB -Brownfields Vapor Intrusion Calculator - Based on OSWER VAPOR INTRUSION ASSESSMENT
Indoor Air Concentration to Risk (IAC-Risk) Calculator Version 3.45, November 2015 RSLs

Site Name Petty Machine Company , Site ID NCD991278805 City
IA-VI-2

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column E)
Target Hazard Quotient for Non-Carcinogens	THQ	0.2	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column F)

CAS	Chemical Name	Site Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard	Indoor Air Screening Level (ug/m3)	Inhalation Unit Risk	IUR Source*	Reference Concentration	RFC Source*	Mutagenic Indicator
		Cia	CR	HQ		IUR		RfC		
		(ug/m^3)				(ug/m^3)$^{-1}$		(mg/m^3)		i

Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
Pink highlighting indicates VI carcinogenic risk greater than the target risk for carcinogens (TCR) or VI Hazard greater than or equal to the target hazard quotient for non-carcinogens (THQ).