

REMEDIAL INVESTIGATION

REPORT



**FORMER GROSS-GIVEN MANUFACTURING
75 WEST PLATO BOULEVARD
ST. PAUL, MN**

**PROJECT NUMBER: 2013-P0183-0061
JULY 14, 2014**

THE
 **JAVELIN
GROUP**
REAL ESTATE DUE DILIGENCE
CONSULTANTS

REMEDIAL INVESTIGATION REPORT

SUBJECT PROPERTY

**FORMER GROSS-GIVEN MANUFACTURING
75 WEST PLATO BOULEVARD
ST. PAUL, MINNESOTA 55107
JAVELIN PROJECT No. 2013-P0183-0061**

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1.0 INTRODUCTION

The Javelin Group, Inc. (JAVELIN) was authorized by 75 Plato, LLC to conduct a Remedial Investigation of the subject property, known as the former Gross-Given Manufacturing site, located at 75 West Plato Boulevard, in the City of St. Paul, Ramsey County, Minnesota. The subject property consists of three (3) adjoining parcels totaling 5.04 acres located on the north side of West Plato Boulevard in St. Paul, Minnesota. Improvements on the subject property include a three-story with penthouse and basement manufacturing building in the northwest corner that has a 1-story warehouse addition on the south side that includes two stories of offices along the east side. A lawn area is present adjacent to the south of the site building that is elevated approximately 4 feet higher than the site parking lot on the east half of the subject property. A site location map is included as Figure 1 in Appendix A.

The purpose of the remedial investigation was satisfy the requirement to assess the extent of soil, soil vapor and groundwater impacts to the degree needed to obtain a retroactive no association determination (RNAD) for the subject property from the Minnesota Pollution Control Agency (MPCA).

1.1 PREVIOUS ENVIRONMENTAL ASSESSMENTS

Phase I Environmental Site Assessment Update, Gross-Given/Automatic Products Site, 75 Plato Boulevard West, St. Paul, Minnesota, American Engineering Testing, Inc. (AET), March 11, 2004

- ❑ The AET report found that three (3) former businesses have a potential to impact the subject property and were considered recognized environmental conditions. The former businesses were the Northwestern Dyeing and Cleaning Company, New York Dye Works/Dry Cleaning, and The National Lead Company.
- ❑ The report identified several leaking underground/above-ground storage tank (LUST/LAST) and Minnesota Pollution Control Agency (MPCA) Voluntary Investigation and Cleanup (VIC) sites near the subject property, and other historical industrial facilities, that may have contributed to local and regional soil and groundwater contamination.

Phase I Environmental Site Assessment, Automatic Products, 75 Plato Boulevard West, St. Paul, Minnesota, Geomatrix Consultants Inc. (Geomatrix), March 2, 2006

The 2006 Geomatrix report identified the following recognized environmental conditions and historical recognized environmental conditions associated with the subject property.

- ❑ Current (2006) recognized environmental conditions at the subject property included: 1) the discharge of oil and oily water from the air compressor blow-down into the compressor room sump that discharges into the municipal sanitary sewer, 2) evidence of leaks through the concrete floor in the secondary containment for the first floor painting line, 3) undocumented surcharge fill near the existing site building addition for potential future building construction.
- ❑ Recognized environmental conditions from historical site operations included 4) a lead products manufacturing facility that ran from the early 1900s to the 1950s, 5) a dye works and dry cleaning operation that was located in a former commercial building at

the southern part of the subject property, 6) a paint spraying and metal fabrication operation by Farwell, Ozmun, Kirk, & Company (FOK) located in the existing site building from 1925 to 1965, 7) a metal plating operation located on the fourth floor of the existing site building, 8) a galvanized iron works along the south-central part of the existing site building in 1890, and 9) two railroad spurs located along the west and north subject property boundaries, and a third railroad that bisected the former FOK and existing site building.

- ❑ Geomatrix identified recognized environmental conditions associated with the current and historical operations at adjoining properties that included 1) the Barnsdall Refining/3M operation located on the north-adjoining property, and 2) the FOK Varnish Plant located along the northwest subject property boundary that ran from 1939 until approximately 1964. Both operations reportedly utilized significant quantities of solvents, paint, oil, and gasoline in their operations. In addition, the report noted these additional offsite RECs including 3) Great River Boatworks along the north subject property boundary, 4) a machine shop/foundry located along the northeast subject property boundary that ran from the early 1900s until the 1950s and 5) a sheet metal shop located along the northeast subject property boundary beginning in 1965. Lastly, a state Superfund site was identified located 1,000 feet southeast and up-gradient of the subject property. The Superfund site reportedly had impacted fill placed there from 1970-1987, which consisted of demolition debris, fly ash, glass, miscellaneous industrial debris, and battery casings.

The Geomatrix report recommended a Phase II ESA including the collection of soil and groundwater samples to assess the identified recognized environmental conditions.

Phase I Environmental Site Assessment, Former Gross-Given Manufacturing, 75 West Plato Boulevard, St. Paul, MN, Sheltertech, Corp., January 18, 2013.

The 2013 Sheltertech Phase I ESA identified the following recognized environmental conditions:

- ❑ A review of the regulatory databases indicated the Northwestern Shot and Lead NFRAP site is located on the subject property. Northwestern Shot and Lead was identified as a former manufacturer of lead-based products that was located on the south portion of the west property boundary from 1906 to 1954. Based on the nature of the operations and potential for soil contamination, this site was considered a recognized environmental condition.
- ❑ The Gross-Given site, located on the subject property at 75 West Plato Boulevard, was also identified as an active MPCA Voluntary Investigation and Cleanup (VIC) site (VP27730). It appeared that investigation of this site was not completed and that no assurance letters have been issued by the MPCA. The presence of a VIC site on the subject property was considered a recognized environmental condition.
- ❑ A dyeing and dry cleaning operation was located on the south part of the subject property parking lot from 1904 to the 1969 that likely utilized chlorinated solvents, dyes, benzene, and gasoline in their operations. The potential for associated soil and groundwater contamination was considered to represent a recognized environmental condition.

- ❑ Undocumented fill soil was placed in the area from the south side of the site building to the south property line in 1979 to compact the underlying soil for a future building addition. The unknown nature of the fill soil was considered a recognized environmental condition.
- ❑ Numerous historic industrial uses of the subject property and adjoining parcels have had the potential to impact the site soil and groundwater, and, therefore, were considered recognized environmental conditions with regard to the subject property.

Based on the conclusions of the Phase I Environmental Site Assessment, Sheltertech recommended the following:

- ❑ It was Sheltertech's opinion that a Phase II ESA of the subject property was warranted to assess the potential soil and/or groundwater contamination on the subject property.

Limited Phase II Environmental Subsurface Investigation, Former Gross-Given Manufacturing, 75 West Plato Boulevard, St. Paul, MN, The Javelin Group, Inc. September 9, 2013.

The 2013 Javelin Limited Phase II environmental subsurface investigation (Phase II) included the advancement of 10 Geoprobe borings for collection of 10 soil samples and 3 groundwater samples. The soil samples were submitted for laboratory analysis of diesel range organic compounds (DRO), gasoline range organic compounds (GRO), volatile organic compounds (VOCs), RCRA metals, and polynuclear aromatic hydrocarbons (PAHs). Groundwater samples were submitted for laboratory analysis of DRO, VOCs and RCRA metals. In addition, four (4) soil vapor probes were advanced for collection of soil vapor samples that were analyzed for VOCs. The Phase II soil boring locations are shown on Figure 2 in Appendix A.

Based on the results of the Phase II, JAVELIN provided the following conclusions:

- ❑ The Phase I ESA identified that the former Northwestern Shot and Lead CERCLIS No Further Remedial Action Planned (NFRAP) site was located in the southwest portion of the subject property. A review of the MPCA digital files pertaining to this site indicated that the EPA determined the Northwestern Shot and Lead facility operated from 1906 to the mid 1950s, manufacturing lead pipe and solder. It was indicated that no apparent smelting was conducted. No information on waste generation was found. The MPCA investigated the site and did not observe waste materials on the surface. Based on this information, the site was archived on February 8, 1990. Since the site was closed without any apparent soil or groundwater assessment, the Phase I ESA recommended completing a Phase II ESA.
- ❑ The two (2) soil samples collected from GP-3 and GP-4 adjacent to the former lead products manufacturer did not detect the presence of lead at concentrations exceeding the SRVs. Although this information is limited, the Javelin stated it does not indicate the presence of significant lead soil impacts. A groundwater sample was also collected from GP-3 located adjacent to and downgradient of the lead manufacturer for laboratory analysis of lead and other RCRA metals. Lead was not detected at a concentration exceeding the HRL, but arsenic was detected at a concentration of 24.3 µg/L that exceeded the MCL of 10 µg/L. Arsenic is used as a hardener in the manufacture of lead ammunition.

- Based on the results of the soil and groundwater samples collected, it appeared that historical use of the subject property by a former dry cleaners located at the south side of the site parking lot resulted in a release to the site soil, groundwater and soil vapor. Soil samples had tetrachloroethylene (PCE) concentrations that exceeded the SLV, but PCE was not detected in the groundwater or soil vapor samples. The PCE degradation product vinyl chloride was detected in the soil vapor at a concentration that exceeded the 10x ISV, but since there were no buildings in the vicinity, the report concluded this should not be a concern, and it indicated the PCE was naturally degrading. Benzene was detected in the groundwater sample from GP-7 at a concentration of 6.7 µg/L compared to the drinking water HRL of 2 µg/L. It was indicated that there was a benzene tank at the former dry cleaners. The report indicated since it was unlikely that there are were groundwater receptors that would utilize groundwater at the site as a potable water supply, it was not anticipated that groundwater remediation will be required in regard to the former dry cleaners release.
- Soil borings GP-5 and GP-6 were advanced in an area where soil was reportedly excavated to a depth of 10 feet and transported off site to be replaced with 14 feet of replacement fill to compact the underlying soil for construction of an addition on the south side of the existing site building. The addition was never completed so there is an area adjacent to the south of the site building approximately 4 feet higher than the surrounding grade with fill from an unknown source. Laboratory analysis of the fill soil did not detect DRO, PAHs or RCRA metals at concentrations exceeding the MPCA SRVs or SLVs. The analyte concentrations were some of the lowest detected at the site indicating the fill material may have come from a sand pit.
- Historic site operations were evaluated through assessment of the northwest loading dock area with borings GP-1, GP-2 and soil vapor sample SV-2. Soil samples from this area contained DRO at concentrations exceeding MPCA action limits, PAHs at concentrations exceeding the Industrial-SRV and benzo(a)pyrene (BaP), trichloroethylene (TCE), PCE, and benzene at concentrations exceeding the SLVs. It was indicated future site assessment would require analysis of groundwater for PAH impacts. The groundwater sample from GP-1 had a sheen and a relatively high concentration of DRO. Petroleum VOCs and arsenic concentrations exceeded the drinking water HRLs. The petroleum concentrations appeared indicative of a release from a petroleum tank site. A varnish plant was historically located adjacent to the northwest of GP-1, naphtha was used as a turpentine substitute in varnishes, and there were three (3) large ASTs located on the adjacent site. Soil vapors in the northwest loading dock area contained PCE and TCE concentrations that significantly exceeded the 10x-Industrial ISVs. Low concentrations of PCE and TCE were detected in the loading dock area soil, but not the groundwater, so the source of the TCE and PCE in the soil vapor was unconfirmed.

2.0 METHODS OF INVESTIGATION

2.1 SCOPE OF INVESTIGATION

JAVELIN prepared a scope of work for completion of a Remedial Investigation (RI) of the subject property that was included in the following:

Remedial Investigation Work Plan, Former Gross-Given Manufacturing, 75 West Plato Boulevard, St. Paul, MN, The Javelin Group, Inc. September 9, 2013.

The RI work plan included the following tasks:

- ❑ Clear public utilities using the Gopher One-Call system and evaluate proposed probe locations for private utilities using a private utility locator;
- ❑ Advancement of 11 soil probes (GP-1, GP-3, GP-7, GP-11 – GP-17, and GP-20) to an estimated depth of 25 feet for collection of soil and groundwater samples at locations across the property;
- ❑ Advancement of five (5) soil probes (GP-2, GP-9, GP-18, GP-19, & GP-21) to a depth of 10 feet for collection of soil samples at previous boring sample locations to assess the vertical extent of contamination and at additional locations across the site;
- ❑ Advancement of five (5) hand auger borings to depths of 3-4 feet at locations in an inaccessible railroad loading dock area adjacent to the north of the building and adjacent to sumps in the basement of the building;
- ❑ Field screening of recovered soil samples at 2-foot intervals for organic vapors with a photoionization detector (PID); documentation of any unusual soil discoloration, staining and/or odors; and classification of recovered soil samples as to soil type;
- ❑ Advancement of four (4) soil vapor probes (SV-4 – SV-7) to a depth of 8 feet for the collection of soil vapor samples for laboratory analysis of VOCs using EPA method TO-15;
- ❑ Sealing of the soil probes/temporary wells in accordance with Minnesota Department of Health guidelines;
- ❑ Collection of three (3) sub-slab soil vapor samples for laboratory analysis of VOCs using EPA method TO-15;
- ❑ Collection of three (3) indoor air quality samples for laboratory analysis of VOCs using EPA method TO-15; and
- ❑ Preparation of a RI report summarizing the methods, field observations, and analytical data and providing conclusions and recommendations regarding the results of the investigation.

2.2 SCOPE OF WORK DEVIATIONS

Based on field conditions, the following changes to the proposed scope of work were required:

- ❑ Due to the elevated stage of the Mississippi River, groundwater was encountered at an average depth of 8.5 feet below grade so it was unnecessary to advance borings to 25

feet for the collection of groundwater samples. Therefore, soil probes GP-1, GP-3, GP-7, GP-11 – GP-17, and GP-20 were advanced to a depth of 15 feet for the collection of groundwater samples.

- ❑ Soil probe GP-9, initially proposed to be advanced to 10 feet, was advanced to a depth of 24 feet in an attempt to define the vertical extent of contamination indicated by field screening. An additional soil sample was collected for laboratory analysis of DRO and VOCs at the 24' termination depth of GP-9.
- ❑ Soil impacts were detected in GP-7 so an additional soil sample was collected at a depth of 7 feet for laboratory analysis of DRO and VOCs.
- ❑ The sampling location figure in the work plan showed a soil vapor sampling location (SV-7) that was not included in the work plan sampling summary. A soil vapor sample was collected from the SV-7 location.
- ❑ The sampling location figure in the work plan showed a sub-slab soil vapor sampling location (SS-7) that was not included in the sampling summary. A soil vapor sample was collected from the SS-7 location but was labeled as SS-5, because this was the next unassigned sub-slab sampling location number.
- ❑ Five (5) hand auger boring locations were initially proposed for locations in the basement and along a former railroad loading dock that were not Geoprobe accessible at the time the Phase II ESA was completed. Upon arrival at the site it was observed that a fence was removed that blocked access to the railroad loading dock and a ramp was constructed that provides vehicle access to the basement level. A Geoprobe was therefore used to advance the hand auger borings, which retained the labeling HA-1 – HA-5 indicated in the work plan.
- ❑ Soil boring locations were adjusted slightly to avoid underground utilities and obstructions.

The following Table 2-1 provides a summary of the sampling locations, depths, and analyses completed for the remedial investigation.

TABLE 2-1: RI SOIL, VAPOR & GROUNDWATER SAMPLING SUMMARY

Boring Name	Depth (feet)	Soil Sample Depth (feet)	Soil/Vapor						Groundwater					
			DRO	GRO/BTEX	PAHs	PCBs	VOCs	Arsenic & Lead	Depth (feet)	DRO	GRO	VOCs	PAHs	Arsenic & Lead
GP-1	25	5	1	1			1	1	15	1	1	1	1	1
		25	1	1										
GP-2	10	0.5	1	1	1	1	1	1						
		1.5			1		1	1						
		3			1		1	1						
	5	1		1		1	1							
GP-3	25	2	1		1			1	15			1	1	1
GP-7	25	1.5		1			1	1	15	1	1	1	1	1
		3	1	1			1	1						
		7	1				1							
GP-9	10	0.5						1						
		4						1						
		24	1				1							
GP-11	25	1.5	1		1			1	15	1		1	1	1
GP-12	25	1.5	1		1		1	1	10	1		1	1	1
		8			1		1	1						
GP-13	25	1.5	1		1			1	15	1	1	1		1
GP-14	25	1.5	1				1	1	15	1	1	1	1	1
GP-15	25	1.5	1		1		1	1	15	1	1	1	1	1
GP-16	25	1.5			1	1	1	1	15				1	1
GP-17	25	1.5	1	1	1	1	1	1	15	1	1	1	1	1
GP-18	10	1.5	1	1	1		1	1						
GP-19	10	1.5	1	1	1			1						
GP-20	25	1.5	1	1	1	1	1	1	15	1	1	1		1
GP-21	10	1.5	1	1	1	1		1						
HA-1	4	1.5	1	1	1	1	1	1						
HA-2	4	1.5	1	1	1	1	1	1						
HA-3	3	3	1	1	1	1	1	1						
HA-4	3	3	1	1	1	1	1	1						
HA-5	3	3	1	1	1	1	1	1						
SV-4	10						1							
SV-5	10						1							
SV-6	10						1							
SV-7	10						1							
SS-1	1						1							
SS-2	1						1							
SS-3	1						1							
SS-4	1						1							
SS-5	1						1							
AS-1	1						1							
AS-2	1						1							
AS-3	1						1							

2.3 FIELD INVESTIGATION OVERVIEW

The field investigation activities were coordinated by JAVELIN representative, Mr. Brad Cordova on June 10-13, 2014. Under the direction of JAVELIN, the soil borings were advanced on the subject property by Thein Drilling.

The probes were advanced at the locations shown on Figure 3 in Appendix A. The rationale for the probe placements and their respective longitude and latitude are summarized in Table 2-2.

TABLE 2-2: SUMMARY OF SOIL PROBE LOCATIONS			
SOIL PROBE	AREA OR FEATURE BEING ASSESSED	LOCATION COORDINATES	
		LATITUDE	LONGITUDE
GP-1*	Loading Dock & Off Site Impacts	44.937567°	-93.092803°
GP-2	Loading Dock & Extent of GP-1 Impacts	44.937468°	-93.092674°
GP-3*	S Loading Dock & Former Lead Manufacturer	44.937039°	-93.092333°
GP-7*	Former Dry Cleaners Benzene UST	44.937525°	-93.090511°
GP-9	Former Dry Cleaners/Dye Works	44.937407°	-93.090482°
GP-11	E Side of Site & Extent of Dry Cleaners Impacts	44.937775°	-93.090267°
GP-12*	Extent of Dry Cleaners Impacts & Unpaved Area	44.937350°	-93.090328°
GP-13*	Extent of Dry Cleaners Impacts	44.937647°	-93.090942°
GP-14*	Former Railroad Loading Dock & Extent of GP-1 Impacts	44.937653°	-93.092603°
GP-15*	Extent of GP-1 Impacts	44.937336°	-93.092578°
GP-16*	Former Lead Manufacturer	44.936758°	-93.092061°
GP-17*	Off Site Impacts	44.938067°	-93.091628°
GP-18	Former Loading Docks	44.937860°	-93.091457°
GP-19	Northeast Corner of Lot	44.938102°	-93.090314°
GP-20	Extent of Dry Cleaners Impacts & Unpaved Area	44.937239°	-93.090731°
GP-21	Southeast Corner & Unpaved Area	44.937416°	-93.089615°
HA-1	Former Railroad Loading Dock	44.937720°	-93.092409°
HA-2	Former Railroad Loading Dock	44.937825°	-93.092140°
HA-3	Basement Sump	44.937419°	-93.092233°
HA-4	Basement Sump	44.937746°	-93.091634°
HA-5	Basement Oil Room	44.937795°	-93.091628°
SV-4	Vapors at GP-1	44.937567°	-93.092803°
SV-5	Former Railroad Loading Dock & Extent of GP-1 Impacts	44.937653°	-93.092603°
SV-6	Extent of GP-1 Impacts	44.937336°	-93.092578°
SV-7	Extent of SV-1 Impacts	44.937526°	-93.091014°
SS-1	Extent of GP-1 Impacts	44.937506°	-93.092507°
SS-2	Basement Oil Room	44.937795°	-93.091628°
SS-3	West End of Warehouse	44.937188°	-93.092173°
SS-4	East End of Warehouse by Offices	44.937442°	-93.091499°
SS-5	Basement Under Plating Area & By RR Loading Dock	44.937771°	-93.092176°
AS-1	Basement Ambient Air @ SS-1	44.937506°	-93.092507°
AS-2	Basement Ambient Air East End	44.937732°	-93.091733°
AS-3	Ambient Air in Offices	44.937538°	-93.091401°

* = Surveyed location. Other coordinates were estimated using Google Earth.

2.4 SOIL PROBES AND SOIL SAMPLING

A Geoprobe was used for the collection of soil samples at all of the soil probe and hand auger sample locations. Soil probe depths are indicated in Table 2-1 and the locations are shown on Figure 3 in Appendix A.

Soil samples were collected by advancing a 2-inch diameter by 4-foot long hollow steel sampling tube into the subsurface with a hydraulic hammer. The open-ended sampling tube was equipped with a disposable acetate liner, which was removed from the sampler after each soil core was retrieved. Probe rods and sampling equipment were decontaminated prior to arrival on-site.

Soil samples were visually and manually classified in the field in accordance with ASTM D2488. If detected, soil discoloration and odors were noted on the probe logs. Soil samples were also screened for the presence of total organic vapors utilizing the polyethylene bag headspace procedure and a photoionization detector (PID). The PID was calibrated to an isobutylene reference gas standard.

The soil samples collected from the probes were placed in laboratory supplied glass containers, stored in a cooler and submitted to Pace Analytical for analyses. A summary of soil sample intervals and analytical parameters is provided in Table 2-1.

2.5 TEMPORARY WELLS AND GROUND WATER SAMPLING

Following collection of the soil samples, a groundwater sample was collected from soil probe locations (GP-1, GP-3, GP-7, GP-11 – GP-17, and GP-20) by installing temporary wells. The wells were typically screened at the 10-15 foot depth interval.

Groundwater samples were collected from the temporary monitoring wells by manually pumping the water from the well assemblies with a pre-cleaned ball check valve attached to new polyethylene tubing. The water samples were pumped through the dedicated tubing directly into the laboratory-supplied containers with the appropriate preservative. Groundwater samples were collected and submitted for laboratory analysis of DRO, GRO, PAHs, VOCs and dissolved arsenic and lead using proper chain-of-custody procedures. The groundwater samples analyzed for dissolved arsenic and lead were pumped into a clean unpreserved laboratory-supplied containers and filtered by the laboratory utilizing a 0.45-micron filter. The groundwater samples submitted to the laboratory were accompanied by a laboratory-supplied trip blank.

Upon completion of field sampling activities, the soil probes/temporary wells were grouted and properly abandoned in accordance with MDH guidelines.

2.6 SOIL VAPOR SAMPLING

Four (4) soil vapor probes (SV-4 – SV-7) were advanced for collection of soil vapor samples. The soil vapor probe locations are shown on Figure 4 in Appendix A.

The soil vapor samples were collected by advancing a soil gas sampling probe tip to a depth of four (4) feet and retracting it to deploy the soil gas sampling screen. Dedicated polyethylene tubing was then extended down inside the probe rod and connected to the fitting on the soil gas sampling probe tip. The annular space around the probe was sealed with bentonite at the surface to prevent ambient air from diluting the sample.

Prior to collecting a sample, a minimum of two (2) tubing volumes were purged. An in-line moisture/sediment trap was attached and a second length of dedicated tubing was used to connect the moisture trap to a Summa canister in which the air was evacuated to generate a vacuum within the canister. The canister identification tag was labeled with the sample identification number, the vacuum gage reading, the date and the sample collection time. Sample collection was initiated by opening the valve on the vacuum canister to allow the air sample to be drawn into the canister. After filling, the canister valve was closed, the airtight cap replaced, and the identification tag attached to the canister was labeled with the ending time and vacuum gage reading. The filled canister was transported using proper chain-of-custody procedures to Pace Analytical for analysis of VOCs using EPA Method TO-15.

3.0 INVESTIGATION RESULTS

3.1 GEOLOGIC CONDITIONS

Review of the Minneapolis, MN USGS 7.5-minute topographic map indicates the subject property elevation is approximately 830 feet above mean sea level (msl).

The unconsolidated sedimentary deposits in the vicinity of the subject property are Pleistocene age stream sediments of sand and gravel with areas of organic material. The uppermost bedrock at the subject property includes sandy and oolitic dolostone of the Prairie Du Chien Group and the St. Peter Sandstone. The depth to bedrock is approximately 50-100 feet below ground surface (bgs). According to published geologic information, the regional groundwater flow direction within the unconsolidated deposits in the vicinity of the subject property is generally to the north-northwest towards the Mississippi River.

The soil encountered in the probes advanced at the subject property was typically comprised of fill soil followed by sand, silt, and clay layers to the termination depths of 3-24 feet.

Buried debris, primarily brick and concrete, was encountered in the upper 3 to 7 feet in nearly all site soil probes. Coal clinker was observed at varying depths from 0-6 feet at probe locations GP-1, GP-3, GP-9, GP-11, GP-12, GP-15, and GP-16 that are located along vacated Bidwell Street on the west side of the site and near the former dry cleaners on the southeast portion of the site. The former dry cleaners had a coal shed and a large boiler. It appears coal clinker may have been used as fill around the plant.

3.2 FIELD OBSERVATIONS AND ORGANIC VAPOR SCREENING

Soil samples collected from the probes were classified and examined for staining and other apparent signs of contamination by the JAVELIN environmental technician. No PID readings above 10 ppm were observed with the exception of soil probes GP-7, GP-9, and GP-14. GP-7 had PID readings of 42 ppm at 0-2 feet, 55 ppm at 6 feet, and 239 ppm at 10-15 feet. GP-9 had PID readings of <1 at 0-5 feet, 560 ppm at 6 feet and 320 ppm at 24 feet. GP-14 had PID readings of <1 at 0-2 feet, 25 ppm at 2-5 feet, 390 ppm at 6-9 feet and 1 ppm at 13-15 feet.

Staining and/or petroleum odors were noted in GP-2 and GP-14 in the northwest corner and in GP-7 and GP-9 at the location of the former dry cleaners. Soil probe logs with PID readings, descriptions of sample intervals, soil types and visual observations are provided in Appendix B.

3.3 SOIL LABORATORY ANALYTICAL RESULTS

A total of 2,778 soil sample analyses were completed for soil samples at the Gross Given site. Soil analytical results were compared to the MPCA Industrial Soil Reference Values (SRVs), where applicable, which are contaminant-specific concentrations above which an unacceptable risk posed by human contact with contaminated soil is predicted. Soil analytical results are also compared to the MPCA Soil Leaching Values (SLVs) that are soil contaminant concentrations above which an unacceptable contamination risk to groundwater via the soil-leaching pathway is predicted based upon soil and contaminant

properties. The soil analytical detections are presented in the following Table 3-1 and the complete laboratory analytical reports are included in Appendix C. Table 3-1 and all summary tables in Section 3 include the results from the previous 2013 Phase II ESA and the 2014 remedial investigation results.

TABLE 3-1 SOIL PETROLEUM ANALYTICAL RESULTS SUMMARY				
BORING	DEPTH	DRO (MG/KG)	GRO (MG/KG)	BENZENE (MG/KG)
GP-1	1.5	213		0.053
	5	74	<11	0.053
	15	<9	<11	
GP-2	0.5	254	<11	<0.021
	1.5	137		0.043
	1.5			<0.022
	3			<0.025
	5	11		<0.021
GP-3	1.5	70		0.010
	2	953		
GP-7	1.5		277	<0.021
	3	139	<11	<0.021
	7	1,980		<0.025
	12	41	7	<0.023
GP-8	3	43	11	<0.0230
GP-9	1.5	66	60	<0.024
	24	2,390		<0.122
GP-10	1.5	21		
GP-11	1.5	53		
GP-12	1.5	39		<0.022
	8			<0.023
GP-13	1.5	17		
GP-14	1.5	449		0.048
GP-15	1.5	351		<0.021
GP-17	1.5	22	<10	<0.110
GP-18	1.5	136	<11	<0.022
GP-19	1.5	41	<11	
GP-20	1.5	12.8	<11	<0.023
GP-21	1.5	15	<11	<0.023
HA-1	1.5	<8	<11	<0.023
HA-2	1.5	34	<11	<0.045
SRVs		NE	NE	10
SLVs		NE	NE	0.017

Notes: Blank = Not Analyzed, NE = Not Established, **BOLD** values > SLVs or 100 mg/kg DRO or GRO

- **DRO, GRO AND BENZENE:** The MPCA does not have established cleanup criteria for DRO or GRO, however 100 mg/kg is the DRO/GRO excavation action limit. Forty (40) soil samples were submitted for analysis of DRO.

DRO/GRO impacts were detected in three (3) areas at concentrations exceeding 100 mg/kg as shown on Figure 5 in Appendix A. The first area is along Bidwell Street adjacent to the site buildings and includes GP-1, GP-2, GP-3, GP-14, and GP-15. Only DRO was present at a concentration exceeding 100 mg/kg in this area. The results were flagged to indicate the presence of higher boiling point hydrocarbons so the DRO source may be spilled oil or degraded diesel rather than a recent diesel

release. The northwest loading dock area is the only location where the benzene concentrations exceeded the SLVs, indicating a potential for groundwater benzene impacts. The benzene concentrations were less than 0.06 mg/kg so they were significantly less than the SRV. Since the surface soil (0'-2') did not have PID readings of greater than 10 ppm and the area is paved, DRO does not appear to represent a direct contact exposure risk. This release may originate from an off-site source, as there are no reported tanks on the subject property.

The 2nd area of DRO soil impacts is an isolated area at the location of GP-18 near a former loading dock on the northeast side of the side of the site building. DRO was detected at a concentration of 136 mg/kg that slightly exceeds the excavation criterion. DRO was detected in a paved area at a depth of 1.5 feet in some fill material. The PID readings in this boring location were <1 ppm.

The final area of petroleum impacts is at the location of the former dry cleaners in the south central portion of the parking lot where soil from GP-7 and GP-9 encountered petroleum odors and impacts to the termination depth of the deepest boring at 24 feet. PID readings of 42 ppm were detected in the 0-2 foot depth at GP-7, but this entire area is a paved parking lot that prevents direct contact with petroleum-impacted soil. Maximum GRO and DRO impacts in the 0-3 foot depth were 139 mg/kg DRO and 277 mg/kg GRO. In GP-7, the DRO concentration at 7 feet was 1,980 mg/kg that decreased to 41 mg/kg at a depth of 12 feet. In GP-9, the DRO concentration was 66 mg/kg at 1.6 feet and 2,390 mg/kg at 24 feet. Benzene was not detected at concentrations exceeding the SRV or SLV in this area.

- **VOLATILE ORGANIC COMPOUNDS (VOCs):** No VOCs were detected in the soil samples at concentrations exceeding the SRVs. However, five (5) non-petroleum VOCs were detected at concentrations exceeding the SLVs, indicating a potential for leaching to the groundwater as shown in Table 3-2. The compounds exceeding the SLVs are 1,1,2,2-tetrachloroethane (1,1,2,2-PCA), tetrachloroethene (PCE), trichloroethene (TCE), chloroform, methylene chloride, and 4-methyl-2-pentanone (MIBK). These compounds are all solvents.

The VOCs 1,1,2,2-PCA, chloroform, and methylene chloride were only detected at one location GP-7, GP-2 and GP-2, respectively at concentrations exceeding the SLVs; and at a maximum concentration of 0.13 mg/kg. MIBK was only identified in GP-14 at a concentration of 2.64 mg/kg that exceeds the SLV of 0.76 mg/kg.

The chlorinated solvent PCE was detected at seven (7) locations at a concentration exceeding the SLV of 0.042 at a maximum concentration of 1.2 mg/kg. The chlorinated solvent TCE was detected at 11 locations at a concentration exceeding the SLV of 0.0023 at a maximum concentration of 19.7 mg/kg. PCE and TCE were found in borings on the northeast and west sides of the original portion of the site building, adjacent to the former lead manufacturer and at the location of the former dry cleaners. The low concentrations of VOCs detected were all considerably less than the SRVs for direct contact risks. Direct evaluation of the groundwater analytical data is preferred to assess the actual effect of soil VOCs leaching to the groundwater and is discussed in Section 3.4.

TABLE 3-2 SOIL VOC ANALYTICAL RESULTS SUMMARY							
BORING	DEPTH	1,1,2,2-PCA	PCE	TCE	CHLOROFORM	METHYLENE CHLORIDE	4-METHYL-2-PENTANONE
GP-1	1.5	<0.0585	<0.0585	2.88	<0.0585	<0.234	<0.293
	5	<0.0571	<0.0571	1.07	<0.0571	<0.228	<0.285
GP-2	0.5	<0.0522	<0.0522	<0.0522	<0.0522	<0.209	<0.261
	1.5	<0.0568	0.345	19.7	0.126	0.13	<0.284
	1.5	<0.0538	<0.0538	0.114	<0.0538	<0.215	<0.269
	3	<0.0616	0.299	2.12	<0.0616	<0.247	<0.308
	5	<0.0536	<0.0536	<0.0536	<0.0536	<0.214	<0.268
GP-3	1.5	<0.0506	0.0163 J	0.0362	<0.0506	<0.202	<0.253
GP-4	1.5	<0.0495	0.0079 J	0.0102	<0.0495	<0.198	<0.248
GP-7	1.5	<0.0534	<0.0534	<0.0534	<0.0534	<0.214	<0.267
	3	<0.0527	<0.0527	<0.0527	<0.0527	<0.211	<0.263
	7	<0.0629	<0.0629	<0.0629	<0.0629	<0.251	<0.314
	12	0.0562	<0.0563	<0.0563	<0.0563	<0.225	<0.282
GP-8	3	<0.0574	0.109	0.0152	<0.0574	<0.230	<0.287
GP-9	1.5	<0.0589	0.41	0.0403	<0.0589	<0.235	<0.294
	24	<0.304	<0.304	<0.304	<0.304	<1.22	<1.52
GP-12	1.5	<0.0552	0.146	<0.0552	<0.0552	<0.221	<0.276
	8	<0.0589	0.391	<0.0589	<0.0589	<0.236	<0.294
GP-14	1.5	<0.0536	1.2	0.231	<0.0536	<0.214	2.64
GP-15	1.5	<0.0523	0.618	<0.0523	<0.0523	<0.209	<0.262
GP-16	1.5	<0.0557	<0.0557	<0.0557	<0.0557	<0.223	<0.278
GP-17	1.5	<0.274	<0.274	6.17	<0.274	<1.10	<1.37
GP-18	1.5	<0.0555	<0.0555	<0.0555	<0.0555	<0.222	<0.277
GP-20	1.5	<0.0579	<0.0579	<0.0579	<0.0579	<0.232	<0.290
GP-21	1.5	<0.0557	<0.0557	<0.0557	<0.0557	<0.223	<0.278
HA-1	1.5	<0.0563	<0.0563	<0.0563	<0.0563	<0.225	<0.282
HA-2	1.5	<0.113	<0.113	4.68	<0.113	<0.451	<0.564
HA-3	3	<0.0566	<0.0566	<0.0566	<0.0566	<0.226	<0.283
HA-4	3	<0.0561	<0.0561	0.329	<0.0561	<0.224	<0.280
HA-5	3	<0.0592	0.0985	0.315	<0.0592	<0.237	<0.296
SRVs		6.5	131	46	4	158	9000
SLVs		0.012	0.042	0.0023	0.11	0.017	0.76

Notes: Blank = Not Analyzed, NE = Not Established, **BOLD** values > SLVs

- **RCRA METALS:** Naturally occurring concentrations of RCRA metals were detected in the soil samples along with elevated concentrations of arsenic and lead. There were four (4) metals detections that exceeded the industrial SRV limit for direct contact exposure risk. The arsenic concentration in the sample collected at the 1.5 foot depth at GP-9 by the former dry cleaners had an arsenic concentration of 22.4 mg/kg that exceeds the arsenic industrial SRV of 20 mg/kg. Arsenic was not detected in a 0.5 foot sample at this location and decreased to a value of 7.7 mg/kg at a depth of 4 feet. The horizontal extent of metals impacts at concentrations exceeding the SRV at GP-9 is defined by boring locations GP-7, GP-8, GP-12, and GP-20 where arsenic was not detected at concentrations exceeding the industrial SRV. Eight (8) of the 36 soil samples had arsenic concentrations that exceeded the arsenic SLV of 5.82 mg/kg. Since the SLV value is less than the naturally occurring arsenic concentration in soil, arsenic groundwater impacts will be evaluated through direct analyses of the site groundwater for the presence of arsenic.

TABLE 3-3 SOIL METALS & PAH ANALYTICAL RESULTS SUMMARY				
BORING	DEPTH	ARSENIC (mg/kg)	LEAD (mg/kg)	BAP EQ (mg/kg)
GP-1	1.5	16.1	116	<1.12
	5	<1.1	79	
GP-2	0.5	<4.2	2,560	1.10
	1.5	17.0	160	6.13
	1.5	<5.0	215	0.67
	3	<5.0	165	1.62
	5	<0.9	15	0.12
GP-3	1.5	6.7	95	2.01
	2	5.2	1,480	13.70
GP-4	1.5	4.1	32	0.09
GP-7	1.5	<1.0	57	
	3	2.2	101	
	12	3.5	5	<0.06
GP-8	3	14.1	164	1.08
GP-9	0.5	<4.2	3,590	
	1.5	22.4	32	0.91
	4	7.7	717	
GP-10	1.5	12.2	209	0.68
GP-11	1.5	<0.9	331	0.80
GP-12	1.5	3.8	490	2.27
	8	<5.1	11	0.17
GP-13	1.5	<1.1	164	0.21
GP-14	1.5	8.0	635	
GP-15	1.5	<0.9	39	0.27
GP-16	1.5	1.6	218	1.06
GP-19	1.5	4.5	407	2.03
GP-20	1.5	2.7	114	3.34
SRVs		20.0	700	3.00
SLVs		5.8	2,700	1.40

Notes: Blank = Not Analyzed, **Red** values > SRVs, **Bold** values > SLVs,
 BaP Eq = Benzo(a)pyrene equivalents

Lead was detected in three (3) soil samples at concentrations exceeding the industrial SRV. Lead was detected at concentrations of 2,560 mg/kg in a 0.5-foot sample at GP-2, 1,480 mg/kg in a 2-foot sample at the location of GP-3, and 3,590 mg/kg in a 0.5-foot deep sample at the location of GP-9. The lead concentrations at GP-2 and GP-9 decreased to concentrations of 160 mg/kg and 32 mg/kg at the 1.5 foot depth. At the GP-3 location, lead is vertically defined with a concentration of 95 mg/kg in a 1.5-foot deep sample. A sample deeper than 2 feet was not analyzed for lead, but the coal clinker at this location was observed limited to the 2-4 foot depth interval. The lateral extent of lead impacts at GP-2 and GP-3 is defined by GP-1, GP-15, and GP-4. The lateral extent of metals impacts at concentrations exceeding the SRV at GP-9 is defined by boring locations GP-7, GP-8, GP-12, and GP-20 where lead was not detected at concentrations exceeding the industrial SRV.

- ❑ **POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS):** Several naturally occurring PAHs were detected in all of the soil samples at relatively low concentrations that did not exceed the industrial SRVs or SLVs. Individual SRVs for carcinogenic PAHs have

not been established. These PAH compounds are all combined into a calculated benzo(a)pyrene (BaP) equivalent concentration that is presented in Table 3-3.

The BaP equivalent concentrations for samples GP-2 and GP-3 along the west property boundaries by the loading docks exceeded the BaP Industrial SRV of 3 mg/kg, with concentrations of 6.13 mg/kg at a depth of 1.5 feet and 13.7 mg/kg at a depth of 3 feet, respectively. The 1.5-foot sample at GP-20 by the dry cleaners had a BaP equivalent concentration of 3.34 mg/kg. The lateral extent of BaP equivalent impacts at GP-2 and GP-3 is defined by GP-1, GP-15, and GP-4. The lateral extent of BaP equivalent impacts at GP-20 is defined by GP-6, GP-9, and GP-12.

3.4 GROUNDWATER FLOW DIRECTION

Upon completion of the borings where groundwater samples were to be collected, 5-foot PVC well screens and casings were installed to complete the borings as temporary monitoring wells. The temporary well top of casing and ground surface elevations were surveyed by Anderson Engineering, a licensed professional surveyor. The temporary wells were allowed to equilibrate overnight and water levels were collected the following day. Table 3-4 contains the temporary monitoring well elevation data, the depth to groundwater measurements and the calculated groundwater elevation and depth below grade.

TABLE 3-4 TEMPORARY WELL WATER LEVEL INFORMATION SUMMARY					
BORING	TOP OF CASING (FEET MSL)	GROUND ELEVATION (FEET MSL)	DEPTH TO WATER (FEET)	WATER TABLE ELEVATION (FEET MSL))	WATER DEPTH BELOW GRADE (FEET)
GP-1	704.61	704.52	8.81	695.80	8.72
GP-3	704.21	704.19	8.36	695.85	8.34
GP-7	703.57	703.50	7.32	696.25	7.25
GP-11	704.28	704.25	8.35	695.93	8.32
GP-13	704.72	704.40	8.89	695.83	8.57
GP-14	704.88	704.87	9.25	695.63	9.24
GP-15	704.39	704.37	8.70	695.69	8.68
GP-16	704.33	704.35	8.24	696.09	8.26
GP-17	705.25	705.10	9.59	695.66	9.44
GP-12	707.53	705.93	5.15	702.38	3.56

The average water level was 8.5 feet below grade on June 13, 2014 and it was approximately 19 feet below grade on April 15, 2013, during the previous sampling event. This is due to the higher than normal stage of the Mississippi River during the 2014 sampling event. Water levels at the subject property appear to be highly variable. An anomaly occurred at the GP-12 location. The water elevation at this location is 6.5 feet higher than the groundwater elevations measured that had a maximum variation of 0.62 feet between wells. The groundwater contours were determined using the Surfer contour graphing program and the resulting groundwater contours are shown on Figure 7 in Appendix A. The calculated groundwater flow direction is to the northwest toward the Mississippi River with the exception that GP-1 is slightly higher than GP-14 resulting in a northeasterly flow in the northwest corner. The high water level observed at GP-12 was not included in the Surfer dataset. The high water level may be due to a leaking water or sewer line as a high water level was noted on the boring log as well.

3.5 GROUNDWATER LABORATORY ANALYTICAL RESULTS

A total of 959 analytes were analyzed for groundwater samples collected at two (2) groundwater sampling rounds at the Gross-Given site in April 2013 and June 2014. Groundwater analytical results were compared to the Minnesota Department of Health (MDH) drinking water Health Risk Limits (HRLs), or the EPA Maximum Contaminant Levels (MCLs). The HRL is the concentration of a ground water contaminant, or a mixture of contaminants that can be safely consumed daily for a lifetime. The groundwater analytical detections are presented in the following Tables 3-5 and 3-6; and the complete laboratory analytical reports are included in Appendix C.

TABLE 3-5 GROUNDWATER PETROLEUM ANALYTICAL SUMMARY									
BORING	DATE	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	1,2,4-TMB	1,3,5-TMB	DRO	GRO
UNITS		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L
GP-1	4/13	268	390	8,260	38,300	467	159	16.50	
	6/14	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	0.34	<0.10
GP-3	4/13	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	0.008	
	6/14	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0		
GP-7	4/13	6.1	<2.0	1.1	<6.0	<2.0	<2.0	115.00	
	6/14	23	2.2	<2.0	<6.0	<2.0	<2.0	10.20	1.35
GP-11	6/14	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	0.22	
GP-12	6/14	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	0.25	
GP-13	6/14							<0.11	<0.10
GP-14	6/14	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	0.56	<0.10
GP-15	6/14	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.12	<0.10
GP-16	6/14	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0		
GP-17	6/14	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.11	0.55
GP-20	6/14							<0.11	<0.10
HRL		2	200	50	300	100	100	1.0	1.0

Notes: Blank = Not Analyzed, Red values > HRLs, TMB = Trimethylbenzene

- ❑ **PETROLEUM IMPACTS:** Petroleum Impacts were detected at two (2) of the 11 groundwater sampling locations at concentrations greater than the HRLs or 1.0 mg/L DRO or GRO. The MDH does not have an established HRL for DRO, the MPCA recommends additional assessment if the DRO or GRO concentration exceeds 1.0 mg/L. Figure 8 shows the area of groundwater petroleum impacts onsite.

GP-1 initially had a DRO concentration of 16.5 mg/L that was 0.34 mg/L during the second sampling round. Benzene and xylenes were detected at concentrations of 268 µg/L and 38,300 µg/L during the initial sampling events, respectively, and were not detectable during the second sampling event. GP-1 is located at the northwest loading dock where the highest soil DRO concentration was detected and the groundwater sample had a solvent odor and a sheen during the initial round of sampling. The GP-1 sample location was approximately 10 feet further to the northwest during the second sampling round in an effort to assess the horizontal extent of the groundwater impacts. The horizontal extent of groundwater impacts at the GP-1 location are defined by GP-15 adjacent to the south that had no detectable petroleum compounds and GP-14 to the east that only detected DRO at a concentration of 0.56 mg/L.

GP-7 initially had a DRO concentration of 115 mg/L DRO that was 10.2 mg/L DRO and 1.35 mg/L GRO during the second sampling round. The benzene concentration in GP-7 increased from 6 µg/L to 23 µg/L. GP-7 is located in the location of the former dry cleaners that had a benzene tank. The lateral extent of groundwater impacts at GP-7 are defined by GP-11, GP-12, GP-13, and GP-20.

- ❑ **VOLATILE ORGANIC COMPOUNDS (VOCs):** Chlorinated solvents at concentrations exceeding the HRLs were detected at three (3) of the 11 groundwater monitoring locations. PCE and vinyl chloride were detected at concentrations of 8.3 and 0.51 µg/L, respectively at the GP-12 location at the former dry cleaners. TCE and DCE were detected at lesser concentrations, indicating that natural degradation is occurring. TCE was detected in the groundwater sample from GP-14 by the northwest loading dock at a concentration of 10.9 µg/L that exceeds the HRL of 5 µg/L. The degradation product cis-1,2-DCE was also detected at this location, indicating that natural degradation is occurring. TCE and cis-1,2-DCE were detected at concentrations of 592 µg/L and 1,000 µg/L in the north central portion of the site. Low concentrations of TCE exceeding the SLVs were detected in soil samples collected adjacent to basement sumps and at the location of GP-17 at a depth of 1.5 feet, indicating an onsite source contribution. Figure 9 in Appendix A shows the extent of groundwater chlorinated VOC, arsenic, and PAH plumes.

BORING	DATE	PCE	TCE	CIS-1,2-DCE	VINYL CHLORIDE	ARSENIC	BENZO(A)-PYRENE
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
GP-1	4/13	<50.0	<20.0	<50.0	<20.0	27.3	
	6/14	<1.0	<0.40	<1.0	<0.40	<20.0	<0.046
GP-3	4/13	1.3	1.6	0.8	<0.40	24.3	
	6/14	<1.0	<0.40	<1.0	<0.40	<20.0	0.17
GP-7	4/13	<2.0	<0.80	<2.0	<0.80	14.7	
	6/14	<2.0	<0.80	<2.0	<0.80	<20.0	<0.043
GP-11	6/14	<1.0	<0.40	<1.0	<0.40	<20.0	<0.045
GP-12	6/14	8.3	0.49	2.3	0.51	<20.0	0.58
GP-13	6/14					<20.0	<0.045
GP-14	6/14	<1.0	10.9	2.7	<0.40	<20.0	<0.045
GP-15	6/14	<1.0	<0.40	<1.0	<0.40	<20.0	<0.041
GP-16	6/14	<1.0	<0.40	<1.0	<0.40	<20.0	
GP-17	6/14	1.1	592	1,000	<0.40	<20.0	<0.046
GP-20	6/14					<20.0	<0.047
HRL		5	5	50	0.20	10	0.06

Notes: **BOLD** value = > HRL

- ❑ **ARSENIC AND LEAD:** Arsenic was detected at three (3) of the 11 groundwater sample locations at concentrations exceeding the most recent HRL of 10 µg/L. Arsenic was detected at GP-1, GP-3 and GP-7 at concentrations of 27.3 µg/L, 24.3 µg/L and 14.7 µg/L, respectively in the initial sampling round. Arsenic was not detected in these groundwater sample locations during the second sampling round or at any other location during the second sampling round. Lead was not detected in the groundwater samples from either sampling round at concentrations exceeding the laboratory reporting limit.

- **BENZO(A)PYRENE (BaP):** The PAH benzo(a)pyrene was detected at two (2) groundwater sample locations at concentrations exceeding the MDH health based value of 0.06 µg/L. These locations are GP-3 and GP-12 that had BaP concentrations of 0.17 and 0.58 µg/L, respectively. Both of these locations had BaP soil concentrations that exceeded the SLV, suggesting an onsite source of the groundwater BaP impacts.

3.6 SOIL VAPOR AND INDOOR AIR LABORATORY ANALYTICAL RESULTS

Seven (7) soil vapor samples were collected to assess whether there were soil vapor concerns in potentially impacted areas. Soil vapor analytical detections are summarized in Table 3-7 below, and the laboratory analytical report is included in Appendix E. Soil vapor analytical results were compared to the MPCA industrial intrusion screening values (ISVs), which are compound specific inhalation risk screening values for volatile compounds. The ISV values are designed to be used for screening for inhalation risks to indoor air via the vapor intrusion pathway. Multiples of the ISVs, specifically ten times the ISV (10x ISV) are used as screening values for subsurface soil vapor. Soil vapor concentrations less than 10x their respective ISV concentration represent a relatively low risk and typically no further evaluation for vapor intrusion is necessary.

Five (5) sub-slab soil vapor samples were collected to assess whether outside soil vapor impacts were present beneath the concrete floor slab of the building. Sub-slab soil vapor samples SS-1, SS-2 and SS-5 were collected from beneath the basement floor and SS-3 and SS-4 were collected from beneath the floor of the slab-on-grade warehouse addition. The sub-slab soil vapor analytical results were also compared to the 10x industrial ISVs. The soil vapor analytical detections are summarized in Table 3-7 below, and the laboratory analytical report is included in Appendix D.

Three (3) indoor air quality samples were also collected at locations near sub-slab soil vapor sample locations to assess whether sub-slab soil vapors are also present in the indoor air above the floor slab. The indoor air quality results were compared directly to the industrial ISVs rather than the 10x ISVs because building occupants could be directly exposed to identified impacts. The indoor air quality analytical detections are summarized in Table 3-8 below, and the laboratory analytical report is included in Appendix E.

TABLE 3-7 SOIL VAPOR EXCEEDANCES SUMMARY							
LOCATION	PCE	TCE	CIS-1,2-DCE	VINYL CHLORIDE	BENZENE	XYLENES	1,2,4-TMB
Units	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
SV-1	<20.5	<16.4	54.5	46.8	40.5	<78.2	78.4
SV-2	965	87,700	470	<134	95.7 J	<1,360	<515
SV-3	283	<17.0	<25.1	<8.1	32.7	82.3	63.5
SV-4	53	635	123	<0.94	8.7	46.4	12.5
SV-5	<635	321	470	4,510	1,490	5,060	1,590
SV-6	330	1,740	<14.6	<9.4	55.4	58.7	<18.0
SV-7	719	243	<14.6	<9.4	12.7	54.6	25.5
SS-1	<1.2	<0.99	<1.5	<0.47	<0.58	<4.8	<1.8
SS-2	44.3	20.2	<1.4	<0.45	<0.57	15.8	10
SS-3	2.8	<0.96	<1.4	<0.45	<0.57	7.9	3.6
SS-4	6,380	169,000	2,310	<579	<1450	<5880	<2220
SS-5	5,230	6,330	<233	<74.9	<93.6	<860	<288
Industrial 10x ISV	600	60	2,000	30	130	3000	200

Notes: **BOLD** value = > Industrial 10x ISV

The following Table 3-8 contains a summary of the indoor air quality detections that exceeded the ISVs. Sample AS-1 is adjacent to SS-1, AS-2 is between SS-2 and SS-5 and AS-3 is near SS-4 and SV-7.

TABLE 3-8 INDOOR AIR ANALYTICAL SUMMARY				
PARAMETER	AS-1	AS-2	AS-3	IND ISVs
Benzene	5.5	13.4	3.1	13
Xylenes	13.8	60.3	14.2	300
1,2,4-Trimethylbenzene	5.9	20.9	16.9	20
Naphthalene	4.8	6.8	34.3	30
Tetrachloroethylene (PCE)	<2.3	<2.3	<2.3	60
Trichloroethylene (TCE)	<0.92	12.9	3.1	6
cis-1,2-Dichloroethene	<1.4	<1.4	<1.4	200
Vinyl chloride	<0.87	<0.87	<0.87	3
Carbon tetrachloride	5.4	<5.4	<5.4	2
Methylene Chloride (Dichloromethane)	10.7	7.7	118	60

Notes: **BOLD** value = > Industrial ISV

- **PETROLEUM VOCs:** Only one (1) of the 12 soil vapor sample locations contained petroleum VOCs at concentrations exceeding the 10x industrial ISVs. SV-5 located at the northwest corner of the site building had benzene, xylenes and 1,2,4-trimethylbenzene concentrations of 1,490 µg/m³, 5,060 µg/m³ and 1,590 µg/m³, respectively. Sub-slab soil vapor sample SS-1 was collected in the basement of the building in the northwest corner near the location of SV-5 and did not detect petroleum VOCs at concentrations exceeding the laboratory reporting limits. Soil samples at adjacent GP-14 had only slightly elevated concentrations of DRO and benzene and the groundwater had limited DRO impacts. Indoor air sample AS-1 adjacent to SS-1 did not detect petroleum hydrocarbons at concentrations exceeding the industrial ISVs.
- Indoor air sample AS-2 had a benzene detection of 13.2 µg/m³ that slightly exceeds the benzene industrial ISV of 13.0 µg/m³ and a 1,2,4-trimethylbenzene detection of

20.9 that slightly exceeded the industrial ISV of 20 $\mu\text{g}/\text{m}^3$. Petroleum VOCs were not detected in sub-slab soil vapor samples SS-2 or SS-5 at concentrations exceeding the industrial 10x ISVs. Nearby soil samples in HA-2, HA-4 and HA-5 also did not detect petroleum compounds at concentrations exceeding the SRVs or SLVs. Therefore, it appears the source of petroleum VOCs at AS-2 may be from spills inside the building rather than a subsurface release.

- Naphthalene was detected at a concentration of 34.3 $\mu\text{g}/\text{m}^3$ in the AS-3 air sample collected in the office area that exceeded the industrial ISV of 30 $\mu\text{g}/\text{m}^3$. Petroleum hydrocarbons were not detected at concentrations exceeding the industrial 10x ISV in the nearby SV-7 and SS-4 soil vapor samples. Therefore, it appears the source of the naphthalene at AS-3 may be from spills inside the building rather than a subsurface release.
- **VOLATILE ORGANIC COMPOUNDS (VOCs):** Chlorinated VOCs were the only VOCs detected in soil vapor samples at concentrations exceeding the industrial 10x ISVs. The vinyl chloride concentration of 46.8 $\mu\text{g}/\text{m}^3$ in the soil vapor sample from SV-1 exceeded the 10x industrial ISV of 30 $\mu\text{g}/\text{m}^3$. Soil vapor sample SV-1 was collected at the location of GP-7 where the former dry cleaners was located. The SV-1 sample also had an elevated cis-1,2-dichloroethene (cis-1,2-DCE) concentration of 54.5 $\mu\text{g}/\text{m}^3$, that did not exceed the industrial 10x ISV of 2,000 $\mu\text{g}/\text{m}^3$. Soil vapor sample SV-7 was advanced at a location downgradient of SV-1 to assess whether the soil vapor impacts extended to the area around the building office space. The SV-7 soil vapor sample had PCE, TCE and cis-1,2-DCE concentrations of 719 $\mu\text{g}/\text{m}^3$, 243 $\mu\text{g}/\text{m}^3$ and <14.6. The PCE and TCE detections exceeded the industrial 10x ISVs of 600 $\mu\text{g}/\text{m}^3$ and 60 $\mu\text{g}/\text{m}^3$. Indoor air quality sample AS-3 located in the adjacent office space between SS-4 and SV-7 did not detect chlorinated solvents at concentrations exceeding the industrial ISVs.

The highest soil vapor sample was sub-slab soil vapor sample SS-4 located in the warehouse addition near the southeast corner adjacent to the offices. PCE was detected at a sub-slab concentration of 6,380 $\mu\text{g}/\text{m}^3$, TCE was detected at 169,000 $\mu\text{g}/\text{m}^3$ and cis-1,2-DCE was detected at a concentration of 2,310 $\mu\text{g}/\text{m}^3$. Although the sub-slab concentrations were high, the indoor air quality sample collected in the office (AS-3) did not have detectable concentrations of chlorinated solvents with the exception of TCE detected at a concentration of 3.1 $\mu\text{g}/\text{m}^3$ compared to the industrial ISV of 6 $\mu\text{g}/\text{m}^3$.

The second highest soil vapor VOC concentrations were detected in the SV-2 sample collected adjacent to GP-2 near the northwest loading dock. The SV-2 soil vapor contained tetrachloroethylene (PCE) at a concentration of 965 $\mu\text{g}/\text{m}^3$ compared to an industrial ISV of 600 $\mu\text{g}/\text{m}^3$, and TCE at a concentration of 87,700 $\mu\text{g}/\text{m}^3$ compared to an ISV of 80 $\mu\text{g}/\text{m}^3$. Soil vapor samples SV-4, SV-5, SV-6 and SS-1 were placed to the north, south, east and west of GP-2. Only TCE and vinyl chloride were detected in these samples at concentrations exceeding the industrial 10x ISV. The maximum TCE concentration was 1,740 $\mu\text{g}/\text{m}^3$ in SV-6 to the south that was significantly lower than the TCE concentration detected in the SV-2 sample. TCE was not detected at the location of SV-3 further to the south. The vinyl chloride concentration was greatest (4,510 $\mu\text{g}/\text{m}^3$) in the SV-5 sample collected north of SV-2. The vinyl chloride

extent appears limited as it was not detected in the three closest sampling locations SV-2, SV-4, SS-1 or SS-2.

Sub-slab soil vapor sample SS-1 was collected at a location in the northwest corner of the basement closest to SV-2 and SV-5 to assess whether the elevated soil vapors were present beneath the basement floor slab. An indoor air quality sample (AS-1) was also collected at a location adjacent to SS-1 to assess whether outside soil vapor impacts were detectable in the basement indoor air. No chlorinated solvents were detected in the SS-1 sub-slab soil vapor sample or the indoor air sample at concentrations exceeding the laboratory reporting limits.

The third highest concentrations of PCE and TCE were detected at the location of sub-slab soil vapor sample SS-5 located at the center of the north basement wall by the former railroad loading dock. The SS-5 PCE and TCE concentrations were 5,230 $\mu\text{g}/\text{m}^3$ and 6,330 $\mu\text{g}/\text{m}^3$, respectively. The area of vapor impacts at the location of SS-5 is limited by SS-2, SS-1 and SV-3.

One VOC was detected in an indoor air quality sample at a concentration exceeding the industrial ISV, but it was not detected in soil vapor samples. Carbon tetrachloride was detected at a concentration of 5.4 $\mu\text{g}/\text{m}^3$ compared to the industrial ISV of 2 $\mu\text{g}/\text{m}^3$ in the AS-1 indoor air sample. Methylene chloride was detected at a concentration of 118 $\mu\text{g}/\text{m}^3$ in the AS-3 indoor air sample that exceeds the industrial ISV of 60 $\mu\text{g}/\text{m}^3$. The maximum methylene chloride concentration detected in the soil vapor samples was 74 $\mu\text{g}/\text{m}^3$. Based on this information, it does not appear that methylene chloride and carbon tetrachloride are attributable to vapor intrusion.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

The objective of the remedial investigation was to assess the magnitude and extent of the soil, soil vapor and groundwater impacts present at the former Gross Given Manufacturing site as required to obtain a retroactive no association determination and to evaluate potential health risks. The following types of contamination were detected at the site and will be summarized below: petroleum, volatile organic compounds, and arsenic, lead, and PAHs.

4.1.1 Petroleum Impacts

Forty (40) samples have been submitted for analysis of DRO. The MPCA does not have established cleanup criteria for DRO or GRO, however 100 mg/kg is the DRO/GRO limit for unregulated use. The MPCA excavation criteria for soil in the upper 2 feet is 10 ppm total organic vapors as measured with a PID.

Bidwell Street - Soil petroleum impacts are limited to three areas. The first area occupies one half of the vacated Bidwell Street located adjacent to the west of the site building and the narrow strip of the former railroad spur curving around the northwest corner of the site building. A loading dock is located at the northwest corner of the site building in this area and a railroad spur and loading dock are located on the north side of the site building in this area.

DRO was the primary contaminant in this area with a maximum concentration of 953 ppm at 2 feet. No DRO impacts greater than 100 ppm were detected at depths greater than 5 feet in this area. The results were flagged to indicate the presence of higher boiling point hydrocarbons so the DRO source may be spilled oil or degraded diesel rather than a recent diesel release. The northwest loading dock area is the only location where the benzene concentrations exceeded the SLVs, indicating a potential for groundwater benzene impacts. Since the surface soil (0'-2') did not have PID readings of greater than 10 ppm and the area is paved, DRO does not appear to represent a direct contact exposure risk. This release may originate from an off-site source, as there are no reported tanks on the subject property.

The only groundwater impacts in this area were at the location of GP-1 at the northwest corner loading dock. Petroleum VOCs significantly exceeded the drinking water HRLs in a groundwater sample collected in March 2013, but were not detectable in a second groundwater sample collected in June 2014. The water level at the site was 10 feet higher during the second sampling round and the GP-1 boring location was located approximately 10 farther to the northwest for the second sampling round. The groundwater elevation was higher than normal because of the high stage of the nearby Mississippi River. The groundwater petroleum impacts in this area appear limited to a small defined area.

Elevated petroleum soil vapor impacts associated with the northwest loading dock were only observed in the railroad spur area north of the northwest corner of the site. Benzene, xylenes and 1,2,4-trimethylbenzene concentrations all exceeded the industrial 10x ISV in the exterior soil sample, but the industrial 10x ISV and the Industrial ISVs were not exceeded in the adjacent sub-slab (SS-1) and indoor air (AS-1) soil vapor and indoor air quality samples, respectively.

Northeast Loading Dock - The second area of DRO soil impacts is an isolated area at the location of GP-18 near a former loading dock on the northeast side of the side of the site building. DRO was detected at a concentration of 136 mg/kg that slightly exceeds the 100 ppm criterion. DRO was detected in a paved area at a depth of 1.5 feet in some fill material. The PID readings in this boring location were <1 ppm. There were no groundwater petroleum impacts in this area that exceeded the HRLs or that were greater than 1 mg/L DRO or GRO. There were no petroleum VOCs detected at concentrations exceeding the industrial 10x ISVs at sub-slab soil vapor sampling locations closest to the northeast loading dock (SS-2, SS-4, and SS-5). The indoor air sample AS-2 benzene and 1,2,4-trimethylbenzene concentrations of 13.4 µg/m³ and 20.9 µg/m³, respectively, barely exceeded the industrial ISVs of 13 µg/m³ and 20 µg/m³, respectively. Air sample location AS-2 is located in the basement parking garage. Air sample AS-3 was collected in the office area on the east side of the building. Naphthalene was detected in the air sample at a concentration of 34.3 µg/m³, compared to the industrial ISV of 30 µg/m³. Naphthalene was not detected in adjacent sub-slab soil vapor sample SS-4 so it does not appear as though vapor intrusion is the naphthalene source. The office area was recently remodeled.

Former Dry Cleaners - The final area of petroleum impacts is at the location of the former dry cleaners in the south central portion of the parking lot where soil from GP-7 and GP-9 encountered petroleum odors and impacts to the termination depth of the deepest boring at 24 feet. PID readings of 42 ppm were detected in the 0-2 foot depth at GP-7, but this entire area is a paved parking lot that prevents direct contact with petroleum impacted soil. Maximum GRO and DRO impacts in the 0-3 foot depth were 139 mg/kg DRO and 277 mg/kg GRO. In GP-7, the DRO concentration at 7 feet was 1,980 mg/kg that decreased to 41 mg/kg at a depth of 12 feet. In GP-9, the DRO concentration was 66 mg/kg at 1.6 feet and 2,390 mg/kg at 24 feet. Benzene was not detected at concentrations exceeding the SRV or SLV in this area. The only petroleum VOC detected at a concentration exceeding the HRLs was benzene detected at concentrations of 6.1 µg/L in April 2013 and 23 µg/L in June 2014 that exceeded the benzene HRL of 2 µg/L. The DRO concentrations were 115 and 10.2 mg/L for the two (2) sampling events, respectively.

4.1.2 Arsenic, Lead and PAH Impacts

Bidwell Street - Soil arsenic, lead and PAH impacts are limited to two (2) areas. The first area occupies one-half of the vacated Bidwell Street located adjacent to the west of the site building. The soil borings encountered coal clinker in four (4) of the six (6) borings along the former Bidwell Street. It appears that coal clinker may have been applied as a road base historically. Coal clinker commonly contains elevated concentrations of arsenic lead and PAHs. Two distinct areas located adjacent to north and south portions of the west side of the site building had impacts that exceeded the industrial SRV. In the north area lead was detected at a concentration of 2,560 mg/kg and the PAH benzo(a)pyrene equivalent concentration was 6.1 ppm, as compared to industrial SRVs of 700 mg/kg and 3 mg/kg, respectively. The SRVs were not exceeded in the 3 or 5-foot deep samples. In the south area the SRVs were not exceeded to the 1.5 foot depth, but at the 2 foot depth, the lead and benzo(a)pyrene equivalent concentrations were 1,480 mg/kg and 13.7 mg/kg, respectively.

Lead was not detected in the Bidwell Street groundwater samples at concentrations exceeding the laboratory reporting limit. In the north area by the loading dock, arsenic was detected at concentrations of 27.3 and <20 µg/L in the first and second sampling rounds,

compared to the HRL of 10 µg/L. In the south area, arsenic was detected at concentrations of 24.3 and <20 µg/L in the first and second sampling rounds, and benzo(a)pyrene was detected at a concentration of 0.17 µg/L in the second round compared to a HRL of 0.06 µg/L. Lead, arsenic and PAHs are not considered a potential vapor intrusion concern.

Former Dry Cleaners – Three (3) soil borings in the area of the former dry cleaners detected layers of clinker in the fill soil. Lead and arsenic were detected at concentrations that exceeded the SRVs in GP-9 at the location of the former dry cleaners. Lead was detected at a concentration of 3,590 mg/kg at 0.5 feet that decreased to 717 ppm at 4 feet. Arsenic was detected at a concentration of 22.4 mg/kg at 1.5 feet that decreased to 7.7 ppm at 4 feet. This area is paved so there is no direct contact with the impacted soil.

The benzo(a)pyrene equivalent concentrations was 3.34 mg/kg in a lawn area located approximately 75 feet southwest of the former dry cleaners at the 1.5 foot depth. Although this area is not paved, it is covered with turfgrass in the summer, and ice and snow in the winter that prevent direct access to the soil. There are also no residences within the vicinity of the subject property and the grass area is in the boulevard of a busy street. Soil arsenic and PAH concentrations exceeded the SLVs in the vicinity of the drycleaners and arsenic and lead groundwater impacts were found to exceed the HRL in this area. Arsenic was detected at concentrations of 14.7 and <20 µg/L in the first and second sampling rounds, and benzo(a)pyrene was detected at a concentration of 0.58 µg/L in the second round. Lead, arsenic and PAHs are not considered a potential vapor intrusion concern.

4.1.3 Chlorinated VOC Impacts

No VOCs were detected in the soil samples at concentrations exceeding the SRVs. However, five (5) non-petroleum VOCs were detected at concentrations exceeding the SLVs, indicating a potential for leaching to the groundwater. The compounds exceeding the SLVs are 1,1,2,2-tetrachloroethane (1,1,2,2-PCA), tetrachloroethene (PCE), trichloroethene (TCE), chloroform, methylene chloride, and 4-methyl-2-pentanone (MIBK). These compounds are all solvents.

Chlorinated solvents at concentrations exceeding the HRLs were identified at three (3) locations on site that include the northwest corner loading dock, the former dry cleaners and the northeast loading dock.

Northwest Loading Dock – TCE was detected in the groundwater sample from GP-14 by the northwest loading dock at a concentration of 10.9 µg/L that exceeds the HRL of 5 µg/L. The degradation product cis-1,2-DCE was also detected at this location, indicating that natural attenuation is occurring. Four (4) soil vapor samples and two (2) sub-slab soil vapor samples were collected in the northwest loading dock area. PCE was detected at the location of SV-2 at the northwest corner and at the location of SS-5 located further east along the railroad spur at concentrations of 965 µg/m³ and 5,230 µg/m³, respectively. The I-10x ISV for PCE is 600 µg/m³. TCE was detected at all northwest loading dock soil vapor monitoring points with the exception of SS-1 located in the northwest corner of the building basement. TCE concentrations ranged from 321 µg/m³ to 87,700 µg/m³ adjacent to the basement outside walls. The degradation product cis-1,2-DCE was detected at three (3) of the six (6) soil vapor monitoring points, but not at concentrations exceeding the industrial 10x ISV. The degradation product vinyl chloride was only detected at one (1) of the six (6)

soil vapor monitoring points. Vinyl chloride was detected at a concentration of 4,500 $\mu\text{g}/\text{m}^3$ that exceeds the industrial 10x ISV of 30 $\mu\text{g}/\text{m}^3$.

Although higher concentrations of VOCs were detected in the soil vapor samples, the indoor air quality sample collected in the northwest corner of the building basement (AS-1) did not detect any chlorinated solvents at concentrations exceeding the industrial ISV. Carbon tetrachloride was detected at a concentration of 5.4 $\mu\text{g}/\text{m}^3$ that exceeded the industrial ISV of 2 $\mu\text{g}/\text{m}^3$, but carbon tetrachloride was not detected in any of the sub-slab soil vapor samples so the source does not appear to be vapor intrusion. The building basement is a parking garage with an enhanced ventilation system to address automobile exhaust.

Former Dry Cleaners – Two (2) groundwater samples were collected at the location of the former dry cleaners, GP-12 and GP-7 located downgradient of GP-12. PCE and vinyl chloride were detected at concentrations of 8.3 and 0.51 $\mu\text{g}/\text{L}$, respectively at the GP-12 location at the former dry cleaners. TCE and DCE were detected at lesser concentrations, indicating that natural degradation is occurring. Chlorinated solvents were not detected at the downgradient GP-7 location in either of the two (2) groundwater monitoring events. Therefore, it appears that the groundwater impacts identified at GP-12 are very limited in extent. A soil vapor sample collected at the location of the former dry cleaners (SV-1), did not detect the presence of PCE or TCE, but did detect the degradation products cis-1,2-DCE and vinyl chloride at concentrations of 54.5 $\mu\text{g}/\text{m}^3$ and 46.8 $\mu\text{g}/\text{m}^3$, respectively. The downgradient soil vapor sample location (SV-7) detected PCE and TCE at concentrations of 719 $\mu\text{g}/\text{m}^3$ and 243 $\mu\text{g}/\text{m}^3$, respectively, but did not detect cis-1,2-DCE or vinyl chloride. The indoor air quality sample AS-3 did not detect the presence of chlorinated solvents at concentrations exceeding the industrial 10x ISVs. The former dry cleaners on the side of a large paved parking lot so there are no associated vapor intrusion concerns.

Northeast Loading Dock - TCE and cis-1,2-DCE were detected at concentrations of 592 $\mu\text{g}/\text{L}$ and 1,000 $\mu\text{g}/\text{L}$ in the groundwater in the northeast loading dock area. Low concentrations of TCE exceeding the SLVs were detected in soil samples collected adjacent to basement sumps and at the location of GP-17 at a depth of 1.5 feet, indicating a potential onsite source contribution to the groundwater impacts.

Two (2) sub-slab soil vapor samples (SS-2 & SS-4) and two (2) indoor air samples were collected near the northwest loading dock. Sub-slab soil vapor sample SS-2 located near the northeast corner of the basement did not detect chlorinated solvents at concentrations exceeding the industrial 10x ISVs. Soil vapor sample SS-4 located in the slab-on-grade warehouse addition detected PCE, TCE, and cis-1,2-DCE at concentrations of 6,380 $\mu\text{g}/\text{m}^3$, 169,000 $\mu\text{g}/\text{m}^3$ and 2,310 $\mu\text{g}/\text{m}^3$, respectively. Indoor air sample AS-3 did not detect the presence of chlorinated solvents at concentrations exceeding the industrial 10x ISVs. Indoor air quality sample AS-1 collected in the northwest corner of the building basement did not detect any chlorinated solvents at concentrations exceeding the industrial ISV.

4.2 RECOMMENDATIONS

Based on the conclusions of this Remedial Investigation, JAVELIN recommends the following:

- It is JAVELIN'S opinion that the nature and extent of site soil, soil vapor, and groundwater have been assessed to the extent necessary to meet the requirements for obtaining a Retroactive No Association Determination (RNAD), so no further assessment appears needed. It is requested that the MPCA issue a RNAD for the Gross Given site.

5.0 STANDARD OF CARE

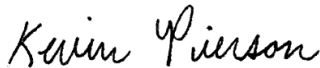
The opinions and conclusions submitted in this report are based on our field observations and the review of laboratory analytical results of environmental samples collected from the subject property.

The services performed by JAVELIN on this project have been conducted with that level of care and skill ordinarily exercised by reputable members of the profession, practicing in the same locality, under similar budget and time constraints. No other warranty is expressed or intended.

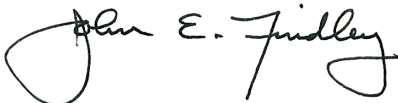
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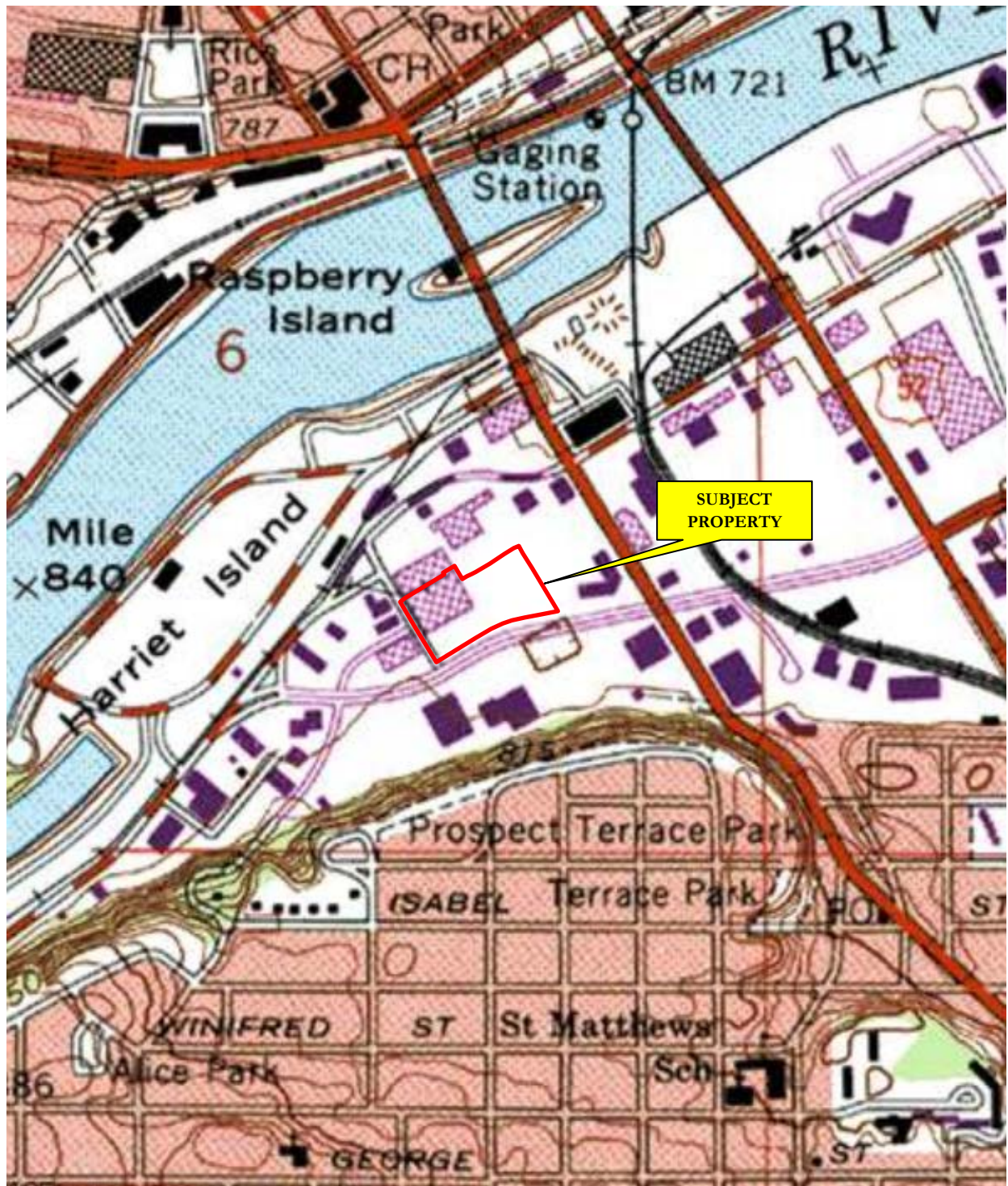
KEVIN PIERSON, M.S.
ENVIRONMENTAL PROFESSIONAL



JOHN E. FINDLEY, M.S.
PRINCIPAL ENVIRONMENTAL PROFESSIONAL

APPENDIX A

FIGURES



PROJECT NAME:

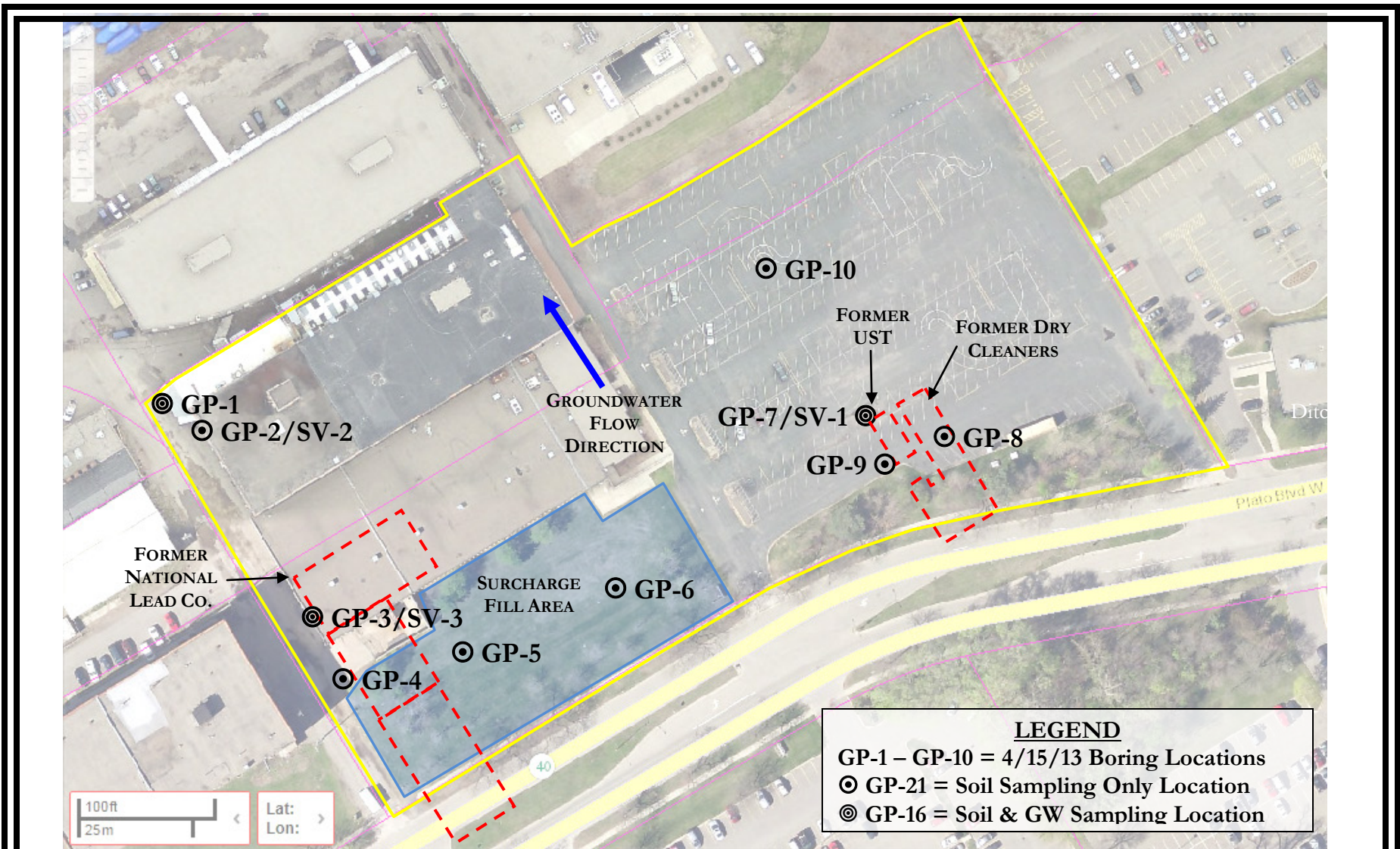
FORMER GROSS-GIVEN MANUFACTURING
 75 WEST PLATO DRIVE
 ST PAUL, MN 55107



FIGURE 1: SITE LOCATION MAP

PROJECT #
 2013-P0183-0061





PROJECT NAME:

FORMER GROSS-GIVEN MANUFACTURING
 75 WEST PLATO BOULEVARD
 ST PAUL, MN 55107

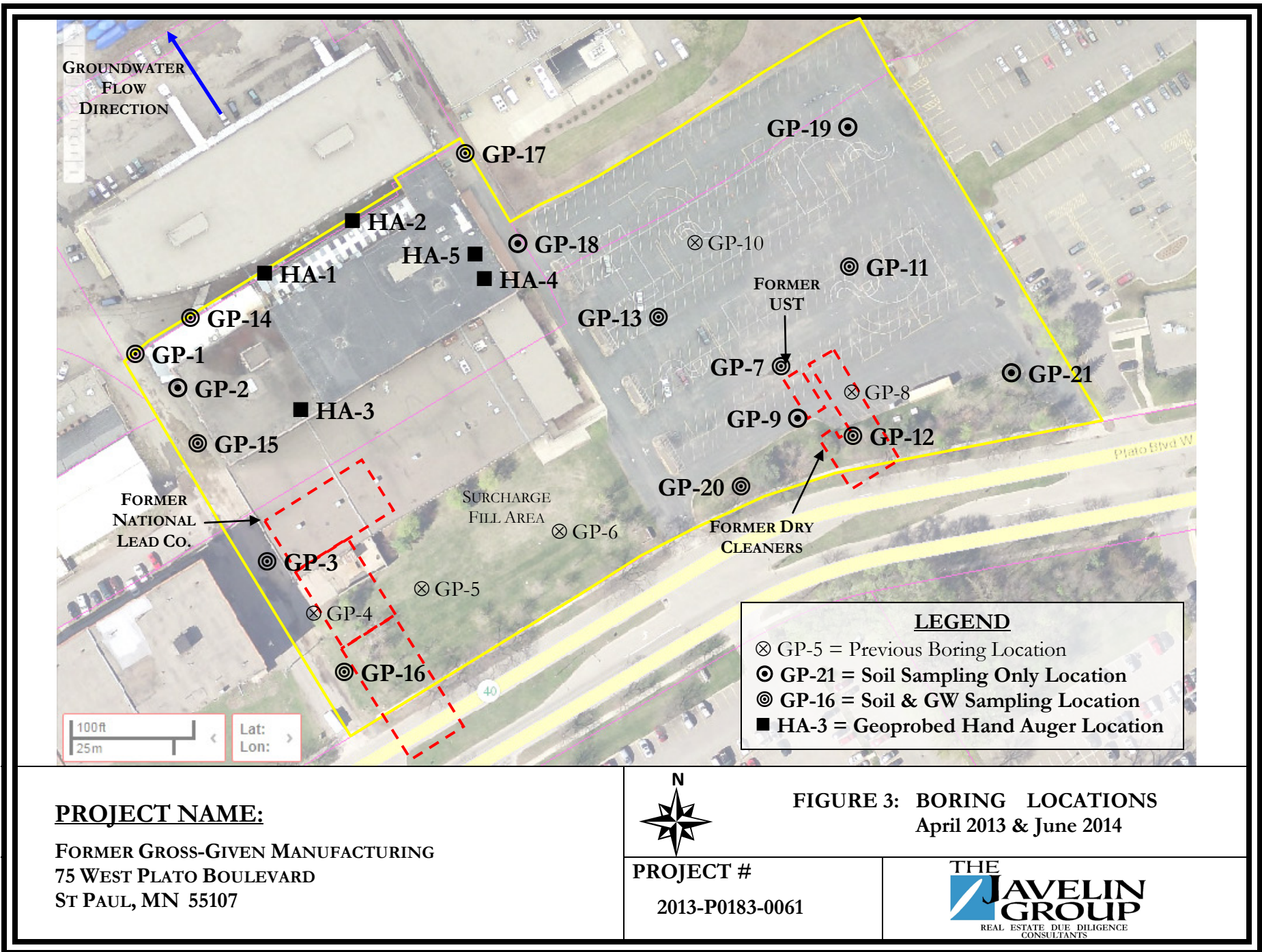


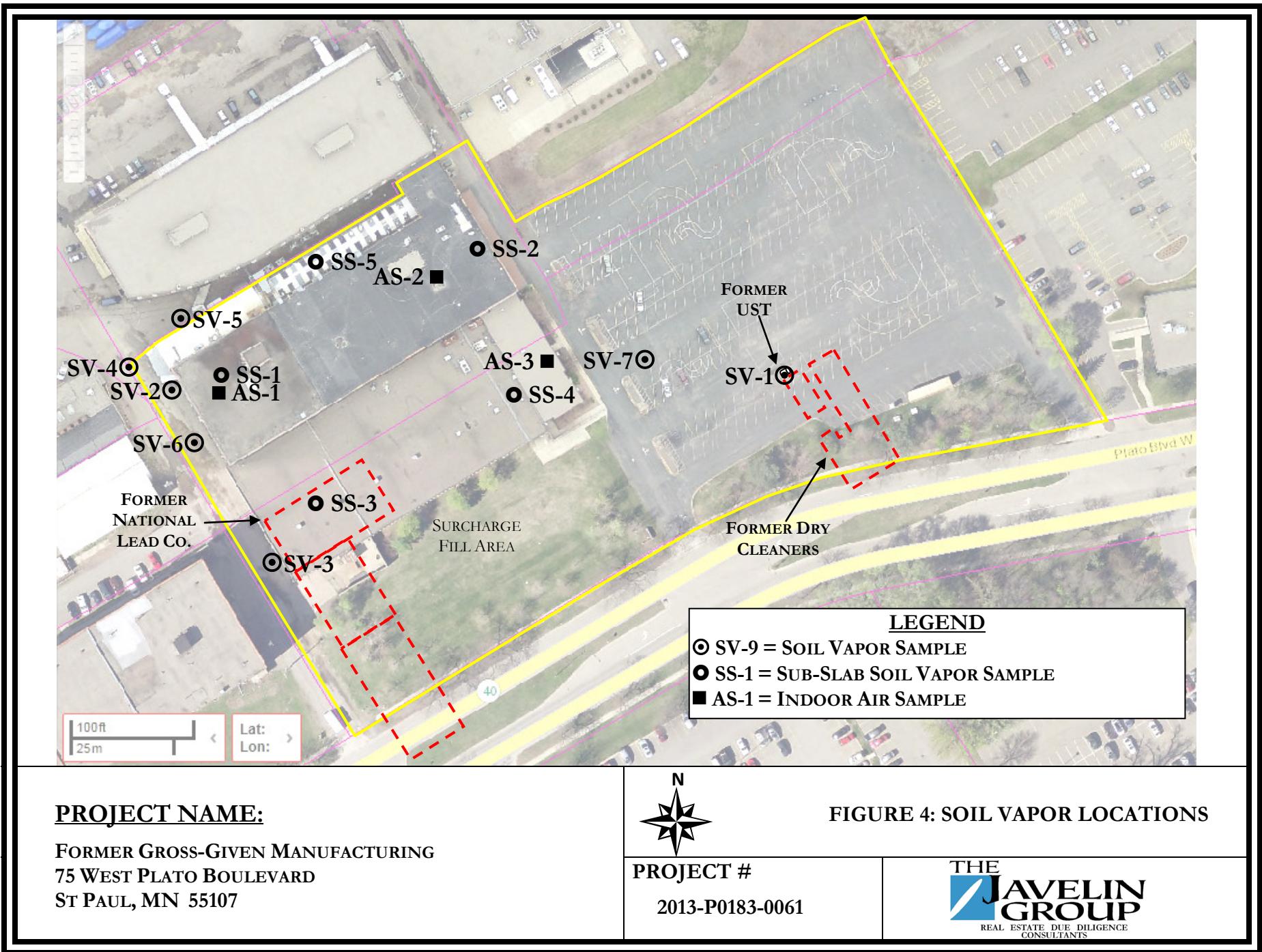
FIGURE 2: PREVIOUS PHASE II BORING LOCATIONS

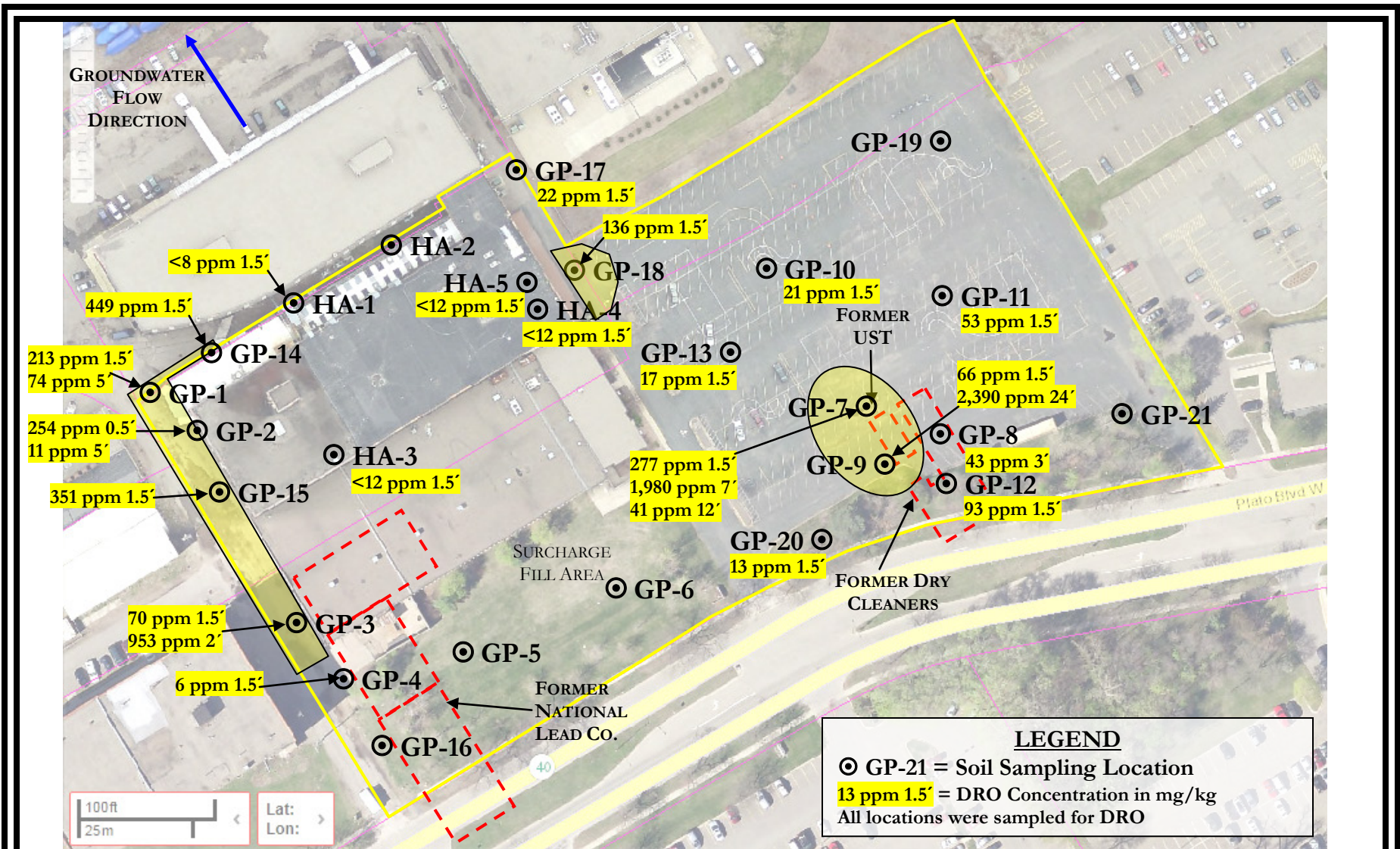
PROJECT #

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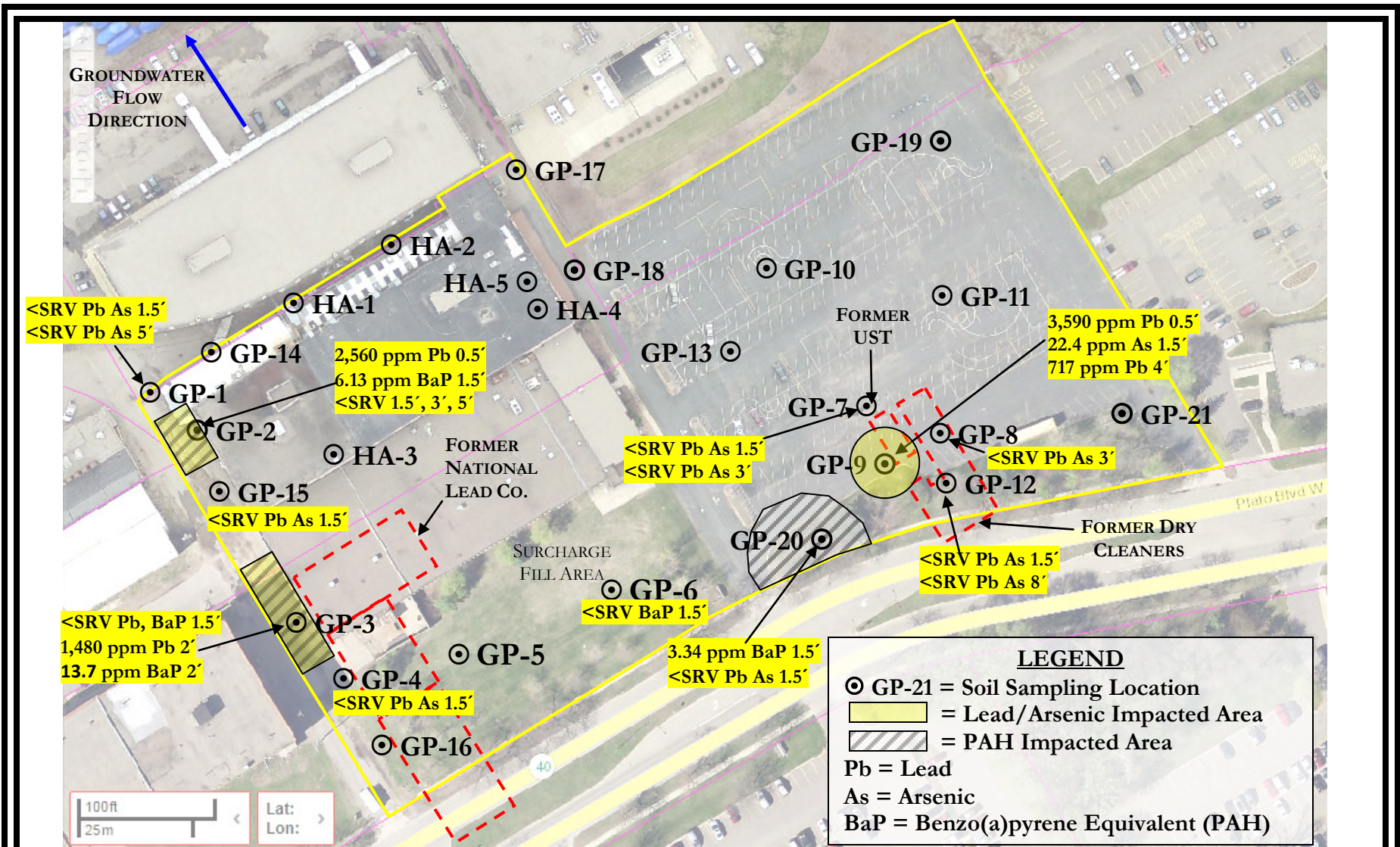


FIGURE 5: SOIL PETROLEUM IMPACTED AREAS

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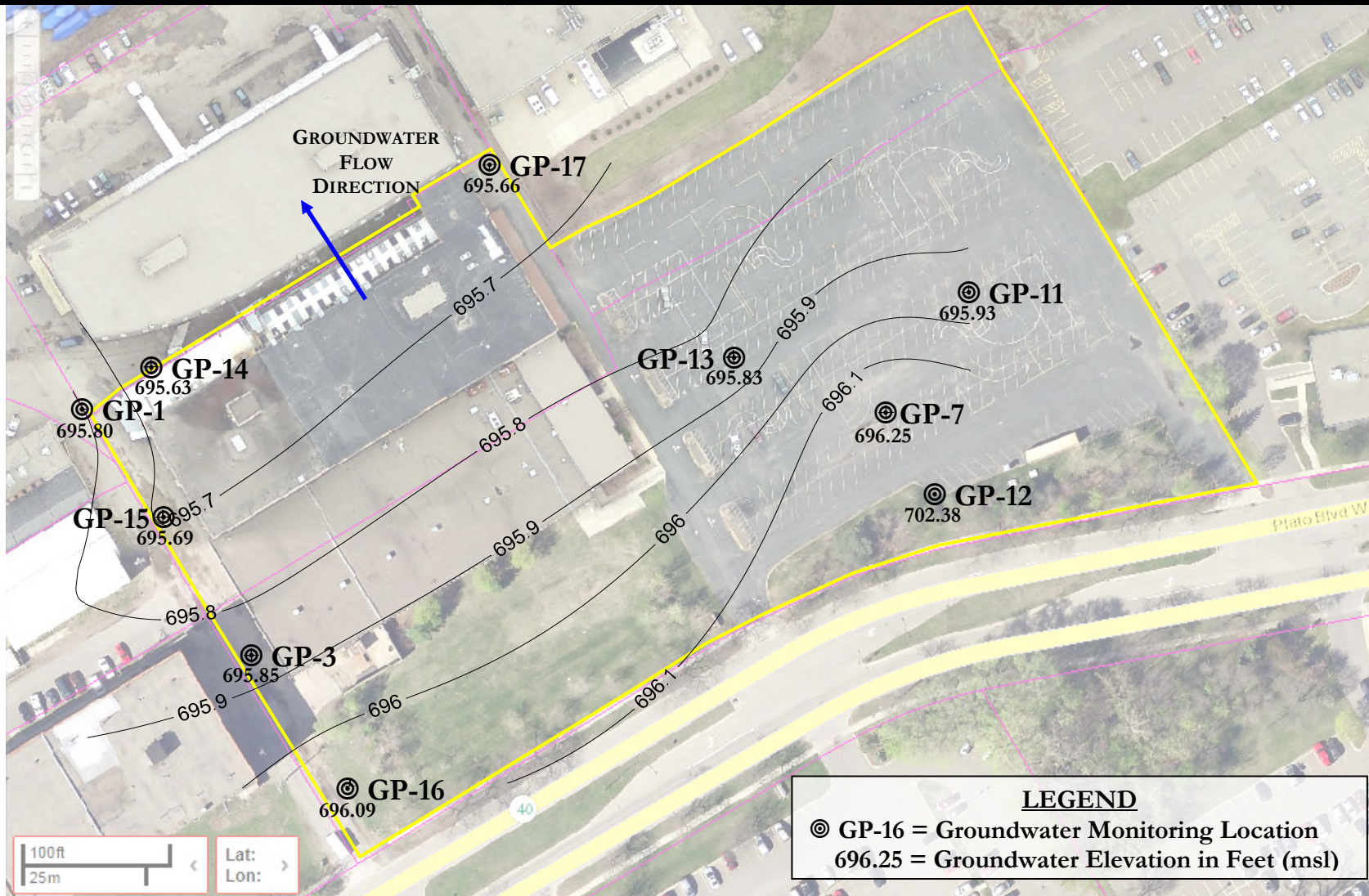


FIGURE 6: SOIL METALS-PAH IMPACTED AREAS

PROJECT #

2013-P0183-0061





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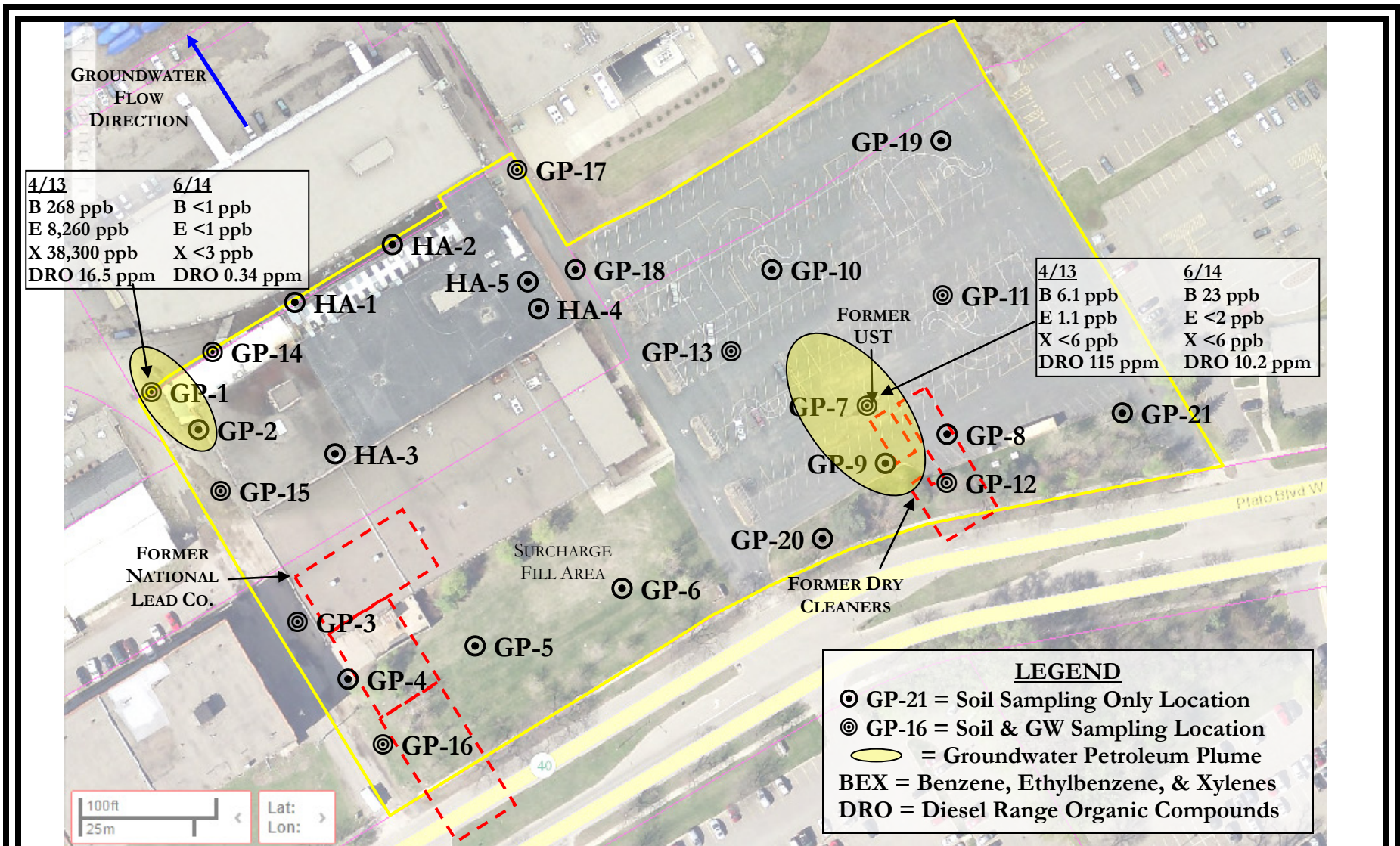
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FIGURE 7: GROUNDWATER CONTOURS
 6/13/2014

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 2013-P0183-0061





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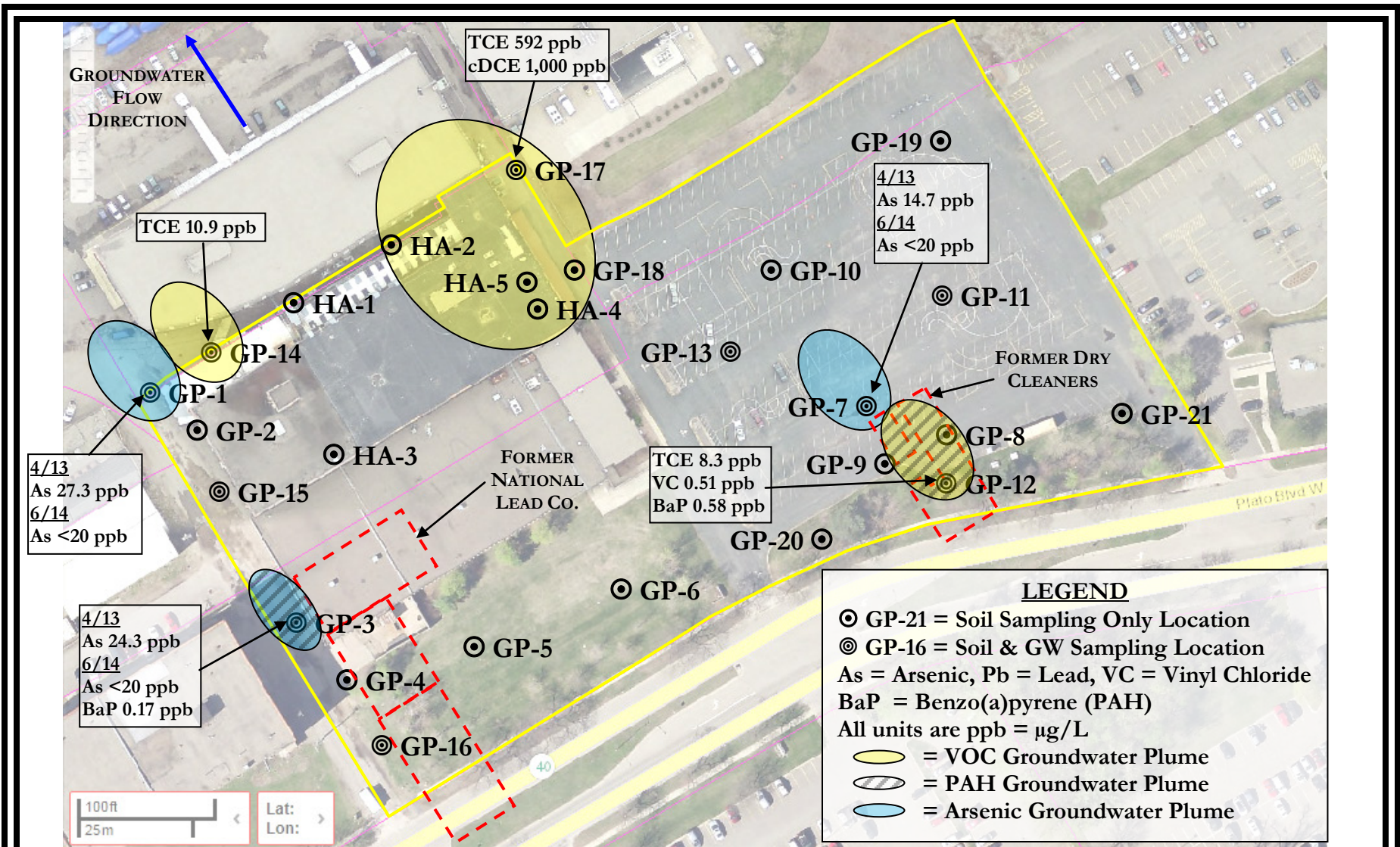


FIGURE 8: GROUNDWATER PETROLEUM PLUMES

PROJECT #

2013-P0183-0061





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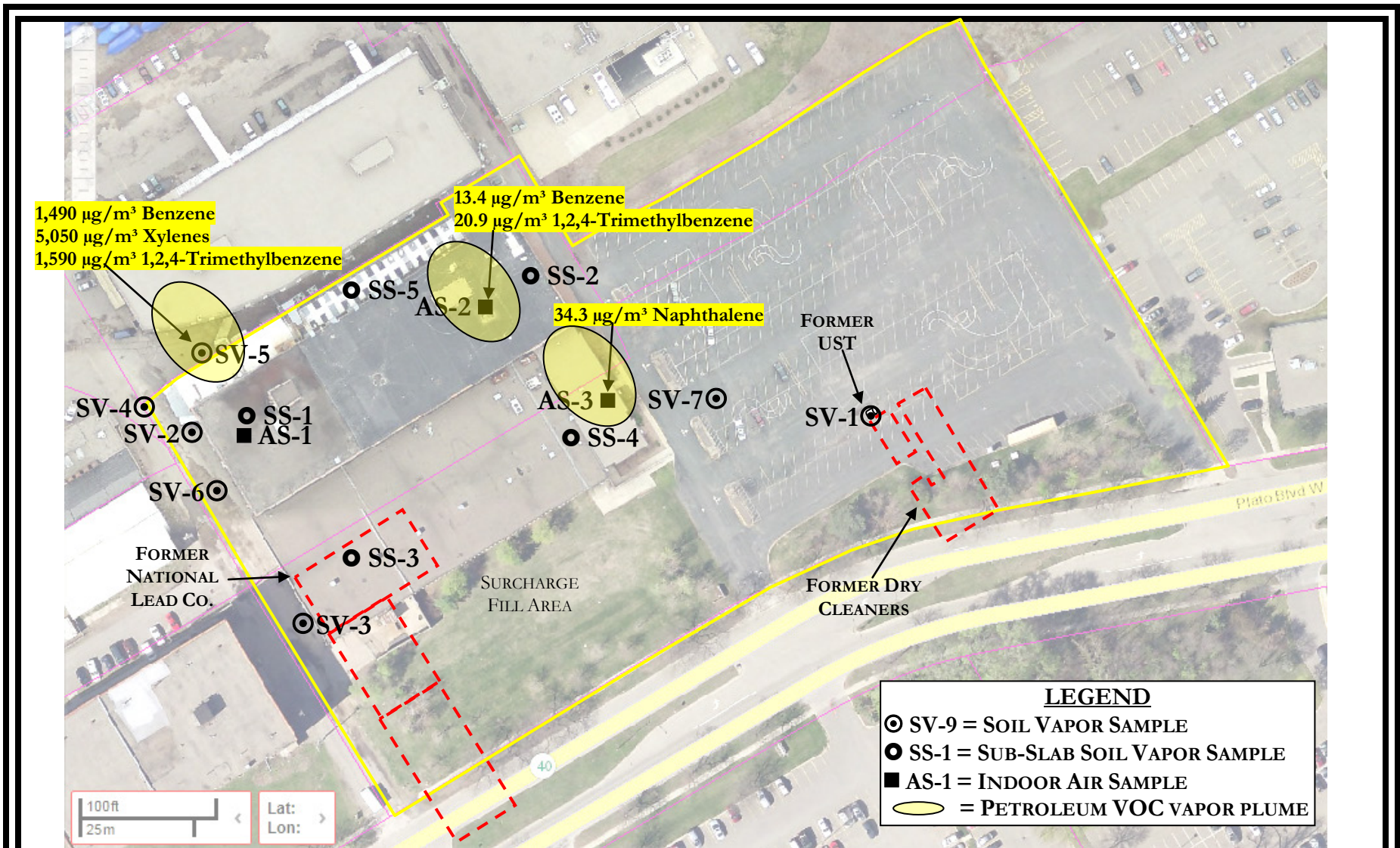


FIGURE 9: GROUNDWATER VOC, ARSENIC & PAH PLUMES

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2013-P0183-0061





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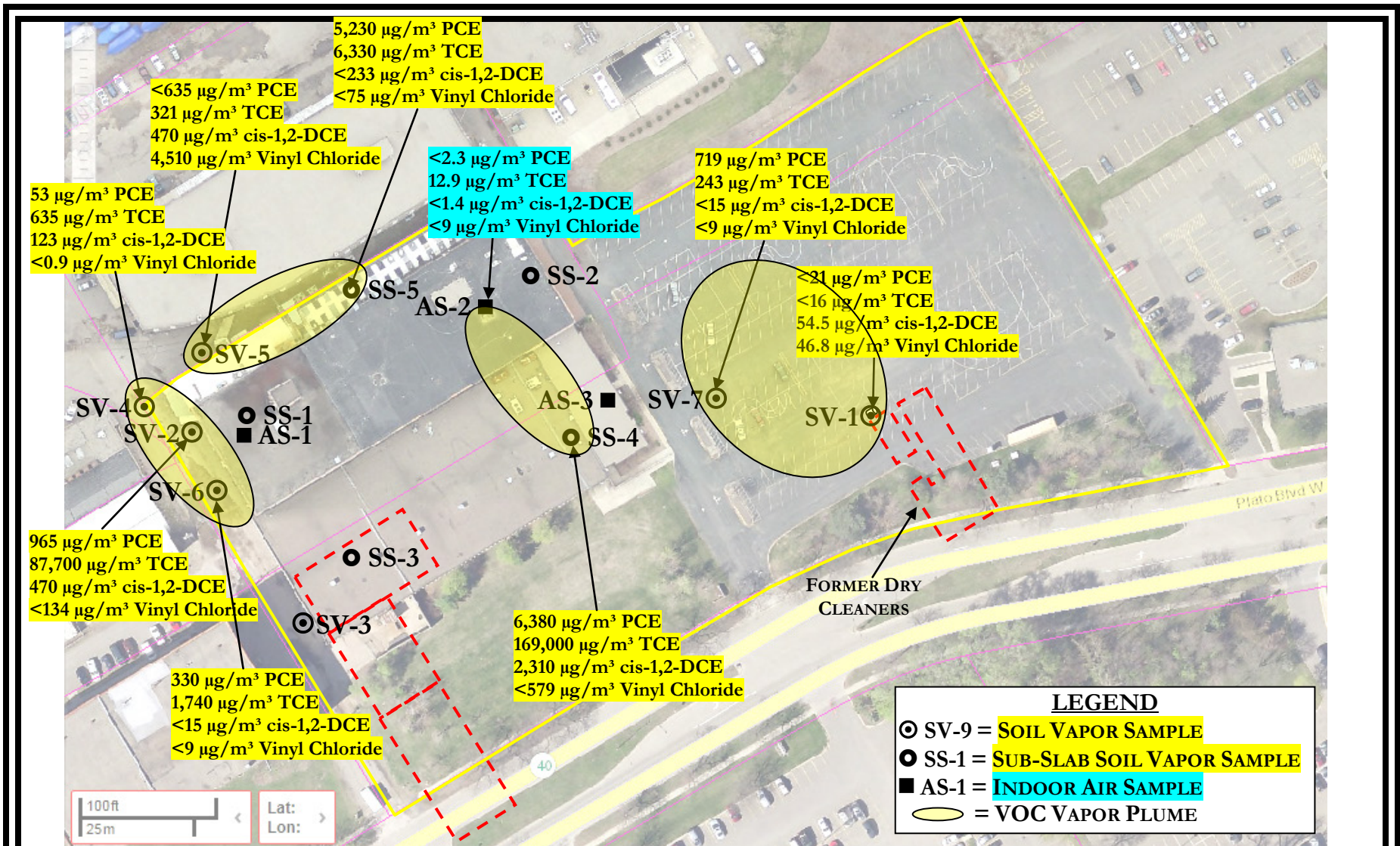


FIGURE 10: SOIL VAPOR PETROLEUM & AIR ISV EXCEEDANCES

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FIGURE 11: SOIL VAPOR & AIR CHLORINATED VOC IND ISV EXCEEDANCES & PLUMES

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APPENDIX B
SOIL PROBE LOGS

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-1 6/13/14	0-2.5	42	0-2" Bituminous 2"-2.5' Brown SILT with sand and rocks, dry, bricks, clinker, no odors or staining	<1
	2.5-5		Brown SILT with sand and rocks, dry, bricks, clinkers, no odors or staining	<1
	5-7.5	44	5'-6' Brown SILT with sand and rocks, dry, bricks, clinkers, no odors or staining 6'-7.5' Tan SAND, moist, well-sorted, medium-grained, no odors or staining	<1
	7.5-10		7.5'-8' Tan SAND, moist, well-sorted, medium-grained, no odors or staining 8'-10' Gray SILT, moist, stiff, no odors or staining	<1
	10-12.5	52	Gray silty SAND, wet, well-sorted, no odors or staining	<1
	12.5-15		Gray silty SAND, wet, well-sorted, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0900

Water level – 8.95' below surface grade after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-2 6/13/14	0-2.5	50	0-2" Bituminous 2"-2.5' Brown-tan sandy SILT, dry, black staining, bricks 2'-3', no odors, black staining	<1
	2.5-5		2.5'-4' Brown-tan sandy SILT, dry, black staining, bricks 2'-3', no odors, black staining 4'-5' Brown silty SAND, moist, well-sorted, NOS	<1
	5-7.5	36	Brown silty SAND, moist, well-sorted, NOS	<1
	7.5-10		Brown silty SAND, moist, well-sorted, NOS	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 1010

Water level – No groundwater detected

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-3 6/13/14	0-2.5	48	0-2" Bituminous 2"-2.5' Brown silty SAND, dry, bricks, concrete, and clinkers 2'-4', no odors or staining	<1
	2.5-5		Brown silty SAND, dry, bricks, concrete, and clinkers 2'-4', no odors or staining	<1
	5-7.5	12	Brown silty SAND, dry, no odors or staining	<1
	7.5-10		Brown silty SAND, moist, no odors or staining Wet at 9'	<1
	10-12.5	16	Brown silty SAND, wet, no odors or staining	<1
	12.5-15		Brown silty SAND, wet, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0905

Water level – 8.33' below surface grade after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-7 6/11/14	0-2.5	56	0-2" Bituminous 2"-2.5' Black-brown SILT with sand and rocks, concrete, bricks, petroleum odor, stained gray at 2'	42
	2.5-5		Black-brown SILT with sand and rocks, concrete, bricks to 4.5', petroleum odor, stained gray	31
	5-7.5	48	Black-brown SILT with sand and rocks, moist, petroleum odor, stained gray	55
	7.5-10		Black-brown SILT with sand and rocks, moist, petroleum odor, stained gray Wet at 9'	200
	10-12.5	46	Black-brown SILT with sand and rocks, wet, petroleum odor, stained gray	239
	12.5-15		Black-brown SILT, with sand and rocks, wet, petroleum odor, stained gray	239

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0910

Water level – 7.24' below surface grade after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-9 6/13/14	0-2.5	48	0-2" Bituminous 2"-2.5' Black-brown SILT, with sand, moist, asphalt/brick/clinkers 2'-3'	<1
	2.5-5		2.5'-5' Black-brown SILT, with sand, moist, asphalt/brick/clinkers 2'-3'	<1
	5-7.5	52	Black-brown SILT, with sand, moist, Fuel oil odor and black staining 6'-7.5'	129
	7.5-10		2"-14' Black-brown SILT, with sand, moist, fuel oil odor and staining Wet at 9'	560
	10-12.5	40	2"-14' Black-brown SILT, with sand, wet, fuel oil odor and staining	525
	12.5-15		12.5'-14' Black-brown SILT, with sand, wet, fuel oil odor and staining 14'-15' Gray-stained black silty SAND, wet, fuel oil odor	410
	15-17.5	48	Gray-stained black silty SAND, wet, fuel oil odor	420
	17.5-20		Gray-stained black silty SAND, wet, fuel oil odor	305
	20-22.5	50	Gray-stained black silty SAND, wet, fuel oil odor	320
	22.5-24		Gray-stained black silty SAND, wet, fuel oil odor	320

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 1035

Water level – 7.24' below surface grade after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-11 6/10/14	0-2.5	50	0-2" Bituminous 2"-2.5' Black-brown sandy SILT with rocks, dry, concrete, clinkers, bricks, no odors or staining	1.9
	2.5-5		Black-brown sandy SILT with rocks, dry, concrete, clinkers, bricks, no odors or staining	<1
	5-7.5	57	5'-6' Black-brown sandy SILT with rocks, dry, concrete, clinkers, bricks, no odors or staining 6'-7.5' Gray sandy SILT, moist, organic "slough" odor	<1
	7.5-10		Gray sandy SILT, moist, organic "slough" odor Wet at 9' Sand lens at 9.5'	<1
	10-12.5	48	Gray sandy SILT, moist, organic "slough" odor	<1
	12.5-15		Gray sandy SILT, moist, organic "slough" odor	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0915

Water level – 8.31' below surface grade after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-12 6/11/14	0-2.5	48	0-6" Black sandy SILT (topsoil), dry, not stiff 6"-2.5' Black-brown sandy SILT with rocks, moist, stiff, bricks, clinkers 2'-3', no odors or staining	<1
	2.5-5		Black-brown sandy SILT with rocks, moist, stiff, bricks, clinkers 2'-3', no odors or staining Wet at 4' (Groundwater level @ 2' after drilling)	<1
	5-7.5	50	Black-brown sandy SILT with rocks, wet, stiff, bricks, no odors or staining	<1
	7.5-10		Black-brown sandy SILT with rocks, wet, stiff, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 1000

Water level – 2.0' below surface grade after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-13 6/11/14	0-2.5	46	0-2" Asphalt 2"-2.5' Brown sandy SILT with rocks, dry, stiff, no odors or staining	<1
	2.5-5		2.5'-4.5' Brown sandy SILT with rocks, dry, stiff, brick 3'-4.5', no odors or staining 4.5'-5' Gray silty SAND, moist, well-sorted, fine-medium, no odors or staining	<1
	5-7.5	48	5'-6.5' Gray silty SAND, moist, well-sorted, fine-medium, no odors or staining 6.5'-7' Brick/concrete	<1
	7.5-10		7'-7.5' Gray/black SILT, moist, stiff, no odors or staining Gray/black SILT, moist, stiff, no odors or staining	<1
	10-12.5	52	10'-12' Gray/black SILT, moist, stiff, no odors or staining 12'-12.5' Gray/black silty SAND, wet, well-sorted, fine-grained, no odors or staining Wet at 12'	<1
	12.5-15		Gray/black silty SAND, wet, well-sorted, fine-grained, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 1120

Water level – 8.35' below surface grade after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-14 6/11/14	0-2.5	30	0-2" Asphalt 2"-2.5' Brown sandy SILT with rocks, moist, no odors or staining	<1
	2.5-5		Brown sandy SILT with rocks, moist Black staining and petroleum odor 2'-3'	25
	5-7.5	52	Brown sandy SILT with rocks, moist, no odors or staining	2
	7.5-10		7.5-9' Brown sandy SILT with rocks, moist, black staining and petroleum odor 6'-8.5', Wet at 9' 9'-10' Brown SAND with silt, wet, well-sorted, no odors or staining	390
	10-12.5	48	Brown SAND with silt, wet, well-sorted, no odors or staining	3.6
	12.5-15		Brown SAND with silt, wet, well-sorted, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0825

Water level – 9.27' below surface grade after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-15 6/11/14	0-2.5	54	0-2" Asphalt 2"-2.5' Black sandy SILT with rocks, brick, clinkers, dry, no odors or staining	<1
	2.5-5		Black sandy SILT with rocks, brick, clinkers, dry, no odors or staining	<1
	5-7.5	52	5'-6' Black sandy SILT with rocks, brick, clinkers, dry, no odors or staining 6'-7.5' Tan SAND, with silt, moist, fine-medium, well-sorted, no odors or staining	<1
	7.5-10		7.5'-8' Tan SAND, with silt, moist, fine-medium, well-sorted, no odors or staining 8'-10' Gray SILT with sand, wet, stiff, no odors or staining Sand lens 9'-9.5' (Water level at 8.6' after drilling)	<1
	10-12.5	40	Gray SILT with sand, wet, stiff, no odors or staining	<1
	12.5-15		Gray SILT with sand, wet, stiff, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 1005

Water level – 8.64' below surface grade after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-16 6/11/14	0-2.5	50	0-2" Asphalt 2"-2.5' Gray-brown sandy SILT, rocks and clinkers, no odors or staining	<1
	2.5-5		2.5'-4' Gray-brown sandy SILT, rocks and clinkers, no odors or staining 4'-5' Brown silty SAND, moist, well-sorted, medium-grained, no odors or staining	<1
	5-7.5	46	Brown silty SAND, moist, well-sorted, medium-grained, no odors or staining	<1
	7.5-10		7.5'-8' Brown silty SAND, moist, well-sorted, medium-grained, no odors or staining 8'-10' Brown SILT with sand, wet, stiff, no odors or staining	<1
	10-12.5	58	Brown SILT with sand, wet, stiff, no odors or staining	<1
	12.5-15		Brown SILT with sand, wet, stiff, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0925

Water level – 8.09' below surface grade after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-17 6/11/14	0-2.5	36	0-2" Asphalt 2"-2.5' Brown silty SAND, rocks and concrete, no odors or staining	<1
	2.5-5		2.5'-4' Brown silty SAND, rocks and concrete, no odors or staining 4'-5' Gray sandy SILT, moist, no odors or staining	<1
	5-7.5	47	Gray sandy SILT, moist, no odors or staining	<1
	7.5-10		Gray sandy SILT, moist, no odors or staining Wet at 9'	<1
	10-12.5	60	Gray sandy SILT, wet, no odors or staining	<1
	12.5-15		Gray sandy SILT, wet, no odors or staining Sand lenses at 13' and 14.5'	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0830

Water level – 9.20' below surface grade after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-18 6/10/14	0-2.5	40	0-2" Asphalt 2"-2.5' Brown-gray sandy SILT, moist, bricks/concrete 2'-3', no odors or staining	<1
	2.5-5		2.5'-4' Brown-gray sandy SILT, moist, bricks/concrete 2'-3', no odors or staining 4'-5' Tan silty SAND, moist, well-sorted, no odors or staining	<1
	5-7.5	45	Tan silty SAND, moist, well-sorted, no odors or staining	<1
	7.5-10		Tan silty SAND, moist, well-sorted, no odors or staining Wet at 9'	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0930

No groundwater detected after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-19 6/10/14	0-2.5	42	0-2" Asphalt 2"-1' Concrete pieces with brown sandy SILT, dry, no odors or staining 1'-2.5' Black SILT with sand, moist, no odors or staining	<1
	2.5-5		Black SILT with sand, moist, bricks from 4.5', no odors or staining	<1
	5-7.5	40	Black SILT with sand, moist, bricks, no odors or staining	<1
	7.5-10		7.5'-9' Black SILT with sand, moist, bricks to 8', no odors or staining 9'-10' Brown SAND with silt, wet , well-sorted, fine-medium, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0935

No groundwater detected after drilling-boring caved in

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-20 6/13/14	0-2.5	52	0-6" Black sandy SILT, dry (topsoil), no odors or staining 6"-2.5' Brown sandy SILT, dry, stiff, no odors or staining Concrete pieces 2.5'-4'	<1
	2.5-5		Brown sandy SILT, dry, stiff, no odors or staining Concrete pieces 2.5'-4'	<1
	5-7.5	54	Brown sandy SILT, dry, stiff, no odors or staining	<1
	7.5-10		7.5-9' Brown sandy SILT, dry, stiff, no odors or staining 9'-10' Brown silty SAND, wet , well-sorted, no odors or staining	<1
	10-12.5	48	Brown silty SAND, wet , well-sorted, no odors or staining	<1
	12.5-15		Brown silty SAND, wet , well-sorted, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 1045

Groundwater detected at 9.54' after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
GP-21 6/10/14	0-2.5	48	0-1' Black sandy SILT, moist (topsoil), no odors or staining Rock at 1'	<1
	2.5-5		1'-2.5' Brown-tan silty SAND with rocks, moist, no odors or staining	<1
	5-7.5	46	2.5'-4' Brown-tan silty SAND with rocks, moist, no odors or staining 4'-5' Brown silty SAND, moist, well-sorted, no odors or staining	<1
	7.5-10		Brown silty SAND, moist, well-sorted, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0940

Groundwater detected at 8.60' after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
HA-1 6/11/14	0-2	48	0-1' Black sandy SILT, moist (topsoil), no odors or staining 1'-2' Brown-tan silty SAND with rocks, moist, no odors or staining	<1
	2-4		Brown-tan silty SAND with rocks, moist, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0800

No groundwater detected after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
HA-2 6/11/14	0-2	46	0-6" Black sandy SILT, moist (topsoil), no odors or staining 6"-2' Brown-tan silty SAND with rocks, moist, no odors or staining	<1
	2-4		Brown-tan silty SAND with rocks, moist, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0805

No groundwater detected after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
HA-3 6/11/14	0-2	32	0-2" Concrete 2"-2' Brown-tan silty SAND with rocks, moist, no odors or staining	<1
	2-3		Brown-tan silty SAND with rocks, moist, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0810

No groundwater detected after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
HA-4 6/11/14	0-2	28	0-2" Concrete 2"-2' Brown-tan silty SAND with rocks, moist, no odors or staining	<1
	2-3		Brown-tan silty SAND with rocks, moist, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0815

No groundwater detected after drilling

BORING LOG
FORMER GROSS-GIVENS MANUFACTURING
75 W PLATO BLVD, ST PAUL, MN 55107
Javelin Project No. 2013-P0183-0061

Boring No./ Date	Sample Depth (ft)	Recovery (inches)	Soil Description	PID Result (ppmv)
HA-5 6/11/14	0-2	28	0-2" Concrete 2"-2' Brown-tan silty SAND with rocks, moist, no odors or staining	<1
	2-3		Brown-tan silty SAND with rocks, moist, no odors or staining	<1

PID = Photoionization detector; ppmv = parts per million by volume

Note: Calibrated Mini Rae PID with isobutylene gas (100 ppmv) prior to field screening

Driller –Thein Well Company-Geoprobe

Completion Time: 0820

No groundwater detected after drilling

APPENDIX C

SOIL & GROUNDWATER

LABORATORY ANALYTICAL REPORTS

June 24, 2014

Kevin Pierson
The Javelin Group
10125 Crosstown Circle
Suite 107
Eden Prairie, MN 55344

RE: Project: 2013-PO183-0061 FMR GROSS GIVE
Pace Project No.: 10270772

Dear Kevin Pierson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lori Castille for
Kabor Xiong
kabor.xiong@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #40770

Alabama Certification #40770

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #: Pace

Georgia Certification #: 959

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

Wisconsin Certification #: 999407970

West Virginia Certification #: 382

West Virginia TO-15 Approval

West Virginia DHHR #:9952C

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2013-PO183-0061 FMR GROSS GIVE
Pace Project No.: 10270772

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10270772001	GP-1 (10-15)	Water	06/13/14 09:00	06/13/14 16:19
10270772002	GP-3 (10-15)	Water	06/13/14 09:05	06/13/14 16:19
10270772003	GP-7 (10-15)	Water	06/13/14 09:10	06/13/14 16:19
10270772004	GP-11 (10-15)	Water	06/13/14 09:15	06/13/14 16:19
10270772005	GP-12 (5-10)	Water	06/13/14 09:20	06/13/14 16:19
10270772006	GP-13 (10-15)	Water	06/13/14 09:25	06/13/14 16:19
10270772007	GP-14 (10-15)	Water	06/13/14 09:30	06/13/14 16:19
10270772008	GP-15 (10-15)	Water	06/13/14 09:35	06/13/14 16:19
10270772009	GP-16 (10-15)	Water	06/13/14 09:40	06/13/14 16:19
10270772010	GP-17 (10-15)	Water	06/13/14 09:45	06/13/14 16:19
10270772011	GP-20 (10-15)	Water	06/13/14 10:00	06/13/14 16:19
10270772012	GP-7 (7')	Solid	06/13/14 10:05	06/13/14 16:19
10270772013	GP-2 0.5'	Solid	06/13/14 10:10	06/13/14 16:19
10270772014	GP-2 1.5'	Solid	06/13/14 10:15	06/13/14 16:19
10270772015	GP-2 3'	Solid	06/13/14 10:20	06/13/14 16:19
10270772016	GP-2 5'	Solid	06/13/14 10:25	06/13/14 16:19
10270772017	GP-9 0.5'	Solid	06/13/14 10:30	06/13/14 16:19
10270772018	GP-9 4'	Solid	06/13/14 10:35	06/13/14 16:19
10270772019	GP-9 24'	Solid	06/13/14 10:40	06/13/14 16:19
10270772020	GP-20 1.5'	Solid	06/13/14 10:45	06/13/14 16:19
10270772021	TRIP BLANK	Solid	06/13/14 00:00	06/13/14 16:19

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2013-PO183-0061 FMR GROSS GIVE
Pace Project No.: 10270772

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10270772001	GP-1 (10-15)	6010C Met	WBS	2
10270772002	GP-3 (10-15)	6010C Met	WBS	2
10270772003	GP-7 (10-15)	6010C Met	WBS	2
10270772004	GP-11 (10-15)	6010C Met	WBS	2
10270772005	GP-12 (5-10)	6010C Met	WBS	2
10270772006	GP-13 (10-15)	6010C Met	WBS	2
10270772007	GP-14 (10-15)	6010C Met	WBS	2
10270772008	GP-15 (10-15)	6010C Met	WBS	2
10270772009	GP-16 (10-15)	6010C Met	WBS	2
10270772010	GP-17 (10-15)	6010C Met	WBS	2
10270772011	GP-20 (10-15)	WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		6010C Met	WBS	2
		EPA 8270 by SIM	HBP	18
10270772012	GP-7 (7')	WI MOD DRO	MT	2
		ASTM D2974	JDL	1
		EPA 8260	LPM	70
10270772013	GP-2 0.5'	EPA 8082	KL1	11
		WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8270 by SIM	JLR	19
		EPA 8260	LPM	70
10270772014	GP-2 1.5'	EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8270 by SIM	JLR	19
		EPA 8260	LPM	70
10270772015	GP-2 3'	EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8270 by SIM	JLR	19
		EPA 8260	LPM	70
10270772016	GP-2 5'	WI MOD DRO	MT	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8270 by SIM	JLR	19
		EPA 8260	LPM	70

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10270772017	GP-9 0.5'	EPA 6010C	IP	2
		ASTM D2974	JDL	1
10270772018	GP-9 4'	EPA 6010C	WBS	2
		ASTM D2974	JDL	1
10270772019	GP-9 24'	WI MOD DRO	MT	2
		ASTM D2974	JDL	1
		EPA 8260	LPM	70
10270772020	GP-20 1.5'	EPA 8082	KL1	11
		WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		EPA 6010C	WBS	2
		ASTM D2974	JDL	1
		EPA 8270 by SIM	JLR	19
		EPA 8260	LPM	70
		EPA 8260	LPM	70
10270772021	TRIP BLANK	EPA 8260	LPM	70

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Method: EPA 8082

Description: 8082 GCS PCB

Client: The Javelin Group

Date: June 24, 2014

General Information:

2 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: OEXT/25382

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1708936)
 - Decachlorobiphenyl (S)
- GP-2 0.5' (Lab ID: 10270772013)
 - Decachlorobiphenyl (S)
- GP-20 1.5' (Lab ID: 10270772020)
 - Decachlorobiphenyl (S)
- LCS (Lab ID: 1708937)
 - Decachlorobiphenyl (S)
- MS (Lab ID: 1708938)
 - Decachlorobiphenyl (S)
- MSD (Lab ID: 1708939)
 - Decachlorobiphenyl (S)

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Method: EPA 8082

Description: 8082 GCS PCB

Client: The Javelin Group

Date: June 24, 2014

QC Batch: OEXT/25382

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10270769005

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 1708938)
 - PCB-1016 (Aroclor 1016)
 - PCB-1260 (Aroclor 1260)
- MSD (Lab ID: 1708939)
 - PCB-1016 (Aroclor 1016)
 - PCB-1260 (Aroclor 1260)

Additional Comments:

Analyte Comments:

QC Batch: OEXT/25382

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1708938)
 - PCB-1016 (Aroclor 1016)
 - PCB-1260 (Aroclor 1260)
- MSD (Lab ID: 1708939)
 - PCB-1016 (Aroclor 1016)
 - PCB-1260 (Aroclor 1260)

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Method: WI MOD DRO

Description: WIDRO GCS

Client: The Javelin Group

Date: June 24, 2014

General Information:

5 samples were analyzed for WI MOD DRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/25396

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- GP-7 (7') (Lab ID: 10270772012)
 - n-Triacontane (S)
- GP-9 24' (Lab ID: 10270772019)
 - n-Triacontane (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/25396

D5: The sample was re-weighed into a new container because the sample weight in the original container exceeded the method specifications.

- GP-9 24' (Lab ID: 10270772019)
 - n-Triacontane (S)

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Method: WI MOD DRO

Description: WIDRO GCS

Client: The Javelin Group

Date: June 24, 2014

Analyte Comments:

QC Batch: OEXT/25396

T6: High boiling point hydrocarbons are present in the sample.

- GP-2 0.5' (Lab ID: 10270772013)
 - Diesel Range Organics
- GP-2 5' (Lab ID: 10270772016)
 - Diesel Range Organics
- GP-20 1.5' (Lab ID: 10270772020)
 - Diesel Range Organics
- GP-7 (7') (Lab ID: 10270772012)
 - Diesel Range Organics

T7: Low boiling point hydrocarbons are present in the sample.

- GP-9 24' (Lab ID: 10270772019)
 - Diesel Range Organics

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Method: WI MOD DRO

Description: WIDRO GCS

Client: The Javelin Group

Date: June 24, 2014

General Information:

1 sample was analyzed for WI MOD DRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Method: WI MOD GRO

Description: WIGRO GCV

Client: The Javelin Group

Date: June 24, 2014

General Information:

2 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Method: WI MOD GRO

Description: WIGRO GCV

Client: The Javelin Group

Date: June 24, 2014

General Information:

1 sample was analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Method: EPA 6010C

Description: 6010C MET ICP

Client: The Javelin Group

Date: June 24, 2014

General Information:

7 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/46704

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10270772018

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1710827)
 - Lead
- MSD (Lab ID: 1710828)
 - Lead

R1: RPD value was outside control limits.

- MSD (Lab ID: 1710828)
 - Lead

Additional Comments:

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Method: 6010C Met

Description: 6010C MET ICP, Lab Filtered

Client: The Javelin Group

Date: June 24, 2014

General Information:

11 samples were analyzed for 6010C Met. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Method: EPA 8270 by SIM

Description: 8270 MSSV PAH by SIM

Client: The Javelin Group

Date: June 24, 2014

General Information:

6 samples were analyzed for EPA 8270 by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

QC Batch: OEXT/25381

P3: Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.

- GP-2 0.5' (Lab ID: 10270772013)

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/25381

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- GP-20 1.5' (Lab ID: 10270772020)
 - 2-Fluorobiphenyl (S)
 - Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Method: EPA 8270 by SIM

Description: 8270 MSSV PAH by SIM

Client: The Javelin Group

Date: June 24, 2014

QC Batch: OEXT/25381

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10269412001

R1: RPD value was outside control limits.

- MSD (Lab ID: 1708862)
 - Dibenz(a,h)anthracene

Additional Comments:

Analyte Comments:

QC Batch: OEXT/25381

D4: Sample was diluted due to the presence of high levels of target analytes.

- GP-20 1.5' (Lab ID: 10270772020)
 - 2-Fluorobiphenyl (S)

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE
Pace Project No.: 10270772

Method: EPA 8260
Description: 8260 MSV 5030 Med Level
Client: The Javelin Group
Date: June 24, 2014

General Information:

8 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

- GP-2 3' (Lab ID: 10270772015)
- GP-2 5' (Lab ID: 10270772016)
- GP-20 1.5' (Lab ID: 10270772020)
- GP-9 24' (Lab ID: 10270772019)
- TRIP BLANK (Lab ID: 10270772021)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/27510

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1713570)
 - Chloroethane
 - Trichlorofluoromethane

QC Batch: MSV/27512

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1713673)
 - 1,2,3-Trichlorobenzene
 - 1,2,4-Trichlorobenzene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Method: EPA 8260

Description: 8260 MSV 5030 Med Level

Client: The Javelin Group

Date: June 24, 2014

QC Batch: MSV/27512

LO: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- Naphthalene

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/27512

1M: Surrogate recovery outside laboratory control limits due to matrix interferences.

- GP-9 24' (Lab ID: 10270772019)
- 4-Bromofluorobenzene (S)

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-1 (10-15) **Lab ID: 10270772001** Collected: 06/13/14 09:00 Received: 06/13/14 16:19 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010C MET ICP, Lab Filtered		Analytical Method: 6010C Met Preparation Method: EPA 3010							
Arsenic, Dissolved	ND ug/L		20.0	3.2	1	06/18/14 13:02	06/20/14 15:53	7440-38-2	
Lead, Dissolved	ND ug/L		10.0	1.8	1	06/18/14 13:02	06/20/14 15:53	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-3 (10-15)		Lab ID: 10270772002		Collected: 06/13/14 09:05	Received: 06/13/14 16:19	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered		Analytical Method: 6010C Met Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	3.2	1	06/18/14 13:02	06/20/14 16:25	7440-38-2	
Lead, Dissolved	ND	ug/L	10.0	1.8	1	06/18/14 13:02	06/20/14 16:25	7439-92-1	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-7 (10-15)		Lab ID: 10270772003		Collected: 06/13/14 09:10	Received: 06/13/14 16:19	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered		Analytical Method: 6010C Met Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	3.2	1	06/18/14 13:02	06/20/14 16:32	7440-38-2	
Lead, Dissolved	ND	ug/L	10.0	1.8	1	06/18/14 13:02	06/20/14 16:32	7439-92-1	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-11 (10-15)		Lab ID: 10270772004		Collected: 06/13/14 09:15	Received: 06/13/14 16:19	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered		Analytical Method: 6010C Met Preparation Method: EPA 3010							
Arsenic, Dissolved	ND ug/L		20.0	3.2	1	06/18/14 13:02	06/20/14 16:45	7440-38-2	
Lead, Dissolved	ND ug/L		10.0	1.8	1	06/18/14 13:02	06/20/14 16:45	7439-92-1	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: GP-12 (5-10)									
Lab ID: 10270772005									
Collected: 06/13/14 09:20 Received: 06/13/14 16:19 Matrix: Water									
6010C MET ICP, Lab Filtered									
Analytical Method: 6010C Met Preparation Method: EPA 3010									
Arsenic, Dissolved	ND	ug/L	20.0	3.2	1	06/18/14 13:02	06/20/14 16:52	7440-38-2	
Lead, Dissolved	ND	ug/L	10.0	1.8	1	06/18/14 13:02	06/20/14 16:52	7439-92-1	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-13 (10-15)		Lab ID: 10270772006		Collected: 06/13/14 09:25	Received: 06/13/14 16:19	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered		Analytical Method: 6010C Met Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	3.2	1	06/18/14 13:02	06/20/14 16:57	7440-38-2	
Lead, Dissolved	ND	ug/L	10.0	1.8	1	06/18/14 13:02	06/20/14 16:57	7439-92-1	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-14 (10-15) **Lab ID: 10270772007** Collected: 06/13/14 09:30 Received: 06/13/14 16:19 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010C MET ICP, Lab Filtered									
Analytical Method: 6010C Met Preparation Method: EPA 3010									
Arsenic, Dissolved	ND ug/L		20.0	3.2	1	06/18/14 13:02	06/20/14 17:04	7440-38-2	
Lead, Dissolved	ND ug/L		10.0	1.8	1	06/18/14 13:02	06/20/14 17:04	7439-92-1	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-15 (10-15) **Lab ID: 10270772008** Collected: 06/13/14 09:35 Received: 06/13/14 16:19 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010C MET ICP, Lab Filtered									
Analytical Method: 6010C Met Preparation Method: EPA 3010									
Arsenic, Dissolved	ND	ug/L	20.0	3.2	1	06/18/14 13:02	06/20/14 17:09	7440-38-2	
Lead, Dissolved	ND	ug/L	10.0	1.8	1	06/18/14 13:02	06/20/14 17:09	7439-92-1	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-16 (10-15) **Lab ID: 10270772009** Collected: 06/13/14 09:40 Received: 06/13/14 16:19 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010C MET ICP, Lab Filtered									
Analytical Method: 6010C Met Preparation Method: EPA 3010									
Arsenic, Dissolved	ND ug/L		20.0	3.2	1	06/18/14 13:02	06/20/14 17:16	7440-38-2	
Lead, Dissolved	ND ug/L		10.0	1.8	1	06/18/14 13:02	06/20/14 17:16	7439-92-1	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-17 (10-15) **Lab ID: 10270772010** Collected: 06/13/14 09:45 Received: 06/13/14 16:19 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered		Analytical Method: 6010C Met Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	3.2	1	06/18/14 13:02	06/20/14 17:21	7440-38-2	
Lead, Dissolved	ND	ug/L	10.0	1.8	1	06/18/14 13:02	06/20/14 17:21	7439-92-1	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-20 (10-15) Lab ID: 10270772011 Collected: 06/13/14 10:00 Received: 06/13/14 16:19 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	ND	mg/L	0.11	0.024	1	06/16/14 10:53	06/18/14 19:55		
Surrogates									
n-Triacontane (S)	77 %		50-150		1	06/16/14 10:53	06/18/14 19:55	638-68-6	
WIGRO GCV Analytical Method: WI MOD GRO									
Gasoline Range Organics	ND	ug/L	100	50.0	1		06/24/14 00:35		
Surrogates									
a,a,a-Trifluorotoluene (S)	107 %		80-125		1		06/24/14 00:35	98-08-8	
6010C MET ICP, Lab Filtered Analytical Method: 6010C Met Preparation Method: EPA 3010									
Arsenic, Dissolved	ND	ug/L	20.0	3.2	1	06/18/14 13:02	06/20/14 17:28	7440-38-2	
Lead, Dissolved	ND	ug/L	10.0	1.8	1	06/18/14 13:02	06/20/14 17:28	7439-92-1	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	0.047	0.0064	1	06/16/14 14:48	06/20/14 13:35	83-32-9	
Acenaphthylene	ND	ug/L	0.047	0.0065	1	06/16/14 14:48	06/20/14 13:35	208-96-8	
Anthracene	ND	ug/L	0.047	0.0062	1	06/16/14 14:48	06/20/14 13:35	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.047	0.0082	1	06/16/14 14:48	06/20/14 13:35	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.047	0.0078	1	06/16/14 14:48	06/20/14 13:35	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.047	0.0076	1	06/16/14 14:48	06/20/14 13:35	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.047	0.0069	1	06/16/14 14:48	06/20/14 13:35	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.047	0.0082	1	06/16/14 14:48	06/20/14 13:35	207-08-9	
Chrysene	ND	ug/L	0.047	0.0075	1	06/16/14 14:48	06/20/14 13:35	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.047	0.0066	1	06/16/14 14:48	06/20/14 13:35	53-70-3	
Fluoranthene	ND	ug/L	0.047	0.014	1	06/16/14 14:48	06/20/14 13:35	206-44-0	
Fluorene	ND	ug/L	0.047	0.0059	1	06/16/14 14:48	06/20/14 13:35	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.047	0.0060	1	06/16/14 14:48	06/20/14 13:35	193-39-5	
Naphthalene	ND	ug/L	0.047	0.0099	1	06/16/14 14:48	06/20/14 13:35	91-20-3	
Phenanthrene	0.11	ug/L	0.047	0.0098	1	06/16/14 14:48	06/20/14 13:35	85-01-8	
Pyrene	ND	ug/L	0.047	0.015	1	06/16/14 14:48	06/20/14 13:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	85 %		54-125		1	06/16/14 14:48	06/20/14 13:35	321-60-8	
Terphenyl-d14 (S)	99 %		68-125		1	06/16/14 14:48	06/20/14 13:35	1718-51-0	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-7 (7') Lab ID: **10270772012** Collected: 06/13/14 10:05 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	1980	mg/kg	287	43.1	50	06/17/14 14:02	06/18/14 13:36		T6
Surrogates									
n-Triacontane (S)	0 %		50-150		50	06/17/14 14:02	06/18/14 13:36	638-68-6	S4
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	17.1	%	0.10	0.10	1		06/16/14 00:00		
8260 MSV 5030 Med Level									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1260	629	1	06/20/14 15:49	06/23/14 22:39	67-64-1	
Allyl chloride	ND	ug/kg	251	8.2	1	06/20/14 15:49	06/23/14 22:39	107-05-1	
Benzene	ND	ug/kg	25.1	12.6	1	06/20/14 15:49	06/23/14 22:39	71-43-2	
Bromobenzene	ND	ug/kg	62.9	10.9	1	06/20/14 15:49	06/23/14 22:39	108-86-1	
Bromochloromethane	ND	ug/kg	62.9	8.6	1	06/20/14 15:49	06/23/14 22:39	74-97-5	
Bromodichloromethane	ND	ug/kg	62.9	11.2	1	06/20/14 15:49	06/23/14 22:39	75-27-4	
Bromoform	ND	ug/kg	251	126	1	06/20/14 15:49	06/23/14 22:39	75-25-2	
Bromomethane	ND	ug/kg	629	314	1	06/20/14 15:49	06/23/14 22:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	314	157	1	06/20/14 15:49	06/23/14 22:39	78-93-3	
n-Butylbenzene	261	ug/kg	62.9	7.6	1	06/20/14 15:49	06/23/14 22:39	104-51-8	
sec-Butylbenzene	142	ug/kg	62.9	7.4	1	06/20/14 15:49	06/23/14 22:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	98-06-6	
Carbon tetrachloride	ND	ug/kg	62.9	10.2	1	06/20/14 15:49	06/23/14 22:39	56-23-5	
Chlorobenzene	ND	ug/kg	62.9	9.7	1	06/20/14 15:49	06/23/14 22:39	108-90-7	
Chloroethane	ND	ug/kg	629	15.8	1	06/20/14 15:49	06/23/14 22:39	75-00-3	L3
Chloroform	ND	ug/kg	62.9	9.6	1	06/20/14 15:49	06/23/14 22:39	67-66-3	
Chloromethane	ND	ug/kg	251	11.5	1	06/20/14 15:49	06/23/14 22:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	629	33.3	1	06/20/14 15:49	06/23/14 22:39	96-12-8	
Dibromochloromethane	ND	ug/kg	62.9	13.6	1	06/20/14 15:49	06/23/14 22:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	62.9	7.7	1	06/20/14 15:49	06/23/14 22:39	106-93-4	
Dibromomethane	ND	ug/kg	62.9	17.6	1	06/20/14 15:49	06/23/14 22:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	251	29.0	1	06/20/14 15:49	06/23/14 22:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	62.9	8.8	1	06/20/14 15:49	06/23/14 22:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	62.9	14.8	1	06/20/14 15:49	06/23/14 22:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	62.9	12.6	1	06/20/14 15:49	06/23/14 22:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	62.9	12.8	1	06/20/14 15:49	06/23/14 22:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	62.9	12.5	1	06/20/14 15:49	06/23/14 22:39	156-60-5	
Dichlorofluoromethane	ND	ug/kg	629	314	1	06/20/14 15:49	06/23/14 22:39	75-43-4	
1,2-Dichloropropane	ND	ug/kg	62.9	10.1	1	06/20/14 15:49	06/23/14 22:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	251	8.4	1	06/20/14 15:49	06/23/14 22:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	62.9	10.3	1	06/20/14 15:49	06/23/14 22:39	563-58-6	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-7 (7') **Lab ID: 10270772012** Collected: 06/13/14 10:05 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
cis-1,3-Dichloropropene	ND	ug/kg	62.9	7.9	1	06/20/14 15:49	06/23/14 22:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	62.9	8.8	1	06/20/14 15:49	06/23/14 22:39	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	251	13.3	1	06/20/14 15:49	06/23/14 22:39	60-29-7	
Ethylbenzene	ND	ug/kg	62.9	7.9	1	06/20/14 15:49	06/23/14 22:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	314	157	1	06/20/14 15:49	06/23/14 22:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	98-82-8	
p-Isopropyltoluene	229	ug/kg	62.9	9.1	1	06/20/14 15:49	06/23/14 22:39	99-87-6	
Methylene Chloride	ND	ug/kg	251	126	1	06/20/14 15:49	06/23/14 22:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	314	157	1	06/20/14 15:49	06/23/14 22:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	1634-04-4	
Naphthalene	ND	ug/kg	251	126	1	06/20/14 15:49	06/23/14 22:39	91-20-3	
n-Propylbenzene	ND	ug/kg	62.9	7.6	1	06/20/14 15:49	06/23/14 22:39	103-65-1	
Styrene	ND	ug/kg	62.9	9.4	1	06/20/14 15:49	06/23/14 22:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	62.9	8.6	1	06/20/14 15:49	06/23/14 22:39	79-34-5	
Tetrachloroethene	ND	ug/kg	62.9	22.7	1	06/20/14 15:49	06/23/14 22:39	127-18-4	
Tetrahydrofuran	ND	ug/kg	2510	80.3	1	06/20/14 15:49	06/23/14 22:39	109-99-9	
Toluene	ND	ug/kg	62.9	8.5	1	06/20/14 15:49	06/23/14 22:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	62.9	15.0	1	06/20/14 15:49	06/23/14 22:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	62.9	11.4	1	06/20/14 15:49	06/23/14 22:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	62.9	10.6	1	06/20/14 15:49	06/23/14 22:39	79-00-5	
Trichloroethene	ND	ug/kg	62.9	7.8	1	06/20/14 15:49	06/23/14 22:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	251	11.2	1	06/20/14 15:49	06/23/14 22:39	75-69-4	L3
1,2,3-Trichloropropane	ND	ug/kg	251	8.3	1	06/20/14 15:49	06/23/14 22:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	251	26.3	1	06/20/14 15:49	06/23/14 22:39	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	62.9	31.4	1	06/20/14 15:49	06/23/14 22:39	108-67-8	
Vinyl chloride	ND	ug/kg	25.1	9.3	1	06/20/14 15:49	06/23/14 22:39	75-01-4	
Xylene (Total)	ND	ug/kg	189	24.7	1	06/20/14 15:49	06/23/14 22:39	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102 %.		74-125		1	06/20/14 15:49	06/23/14 22:39	17060-07-0	
Toluene-d8 (S)	101 %.		75-125		1	06/20/14 15:49	06/23/14 22:39	2037-26-5	
4-Bromofluorobenzene (S)	103 %.		75-125		1	06/20/14 15:49	06/23/14 22:39	460-00-4	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-2 0.5' **Lab ID: 10270772013** Collected: 06/13/14 10:10 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.2	15.5	1	06/16/14 13:56	06/17/14 21:03	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.2	5.2	1	06/16/14 13:56	06/17/14 21:03	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.2	8.3	1	06/16/14 13:56	06/17/14 21:03	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.2	6.2	1	06/16/14 13:56	06/17/14 21:03	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.2	7.2	1	06/16/14 13:56	06/17/14 21:03	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	34.2	7.2	1	06/16/14 13:56	06/17/14 21:03	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	34.2	15.5	1	06/16/14 13:56	06/17/14 21:03	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	34.2	6.2	1	06/16/14 13:56	06/17/14 21:03	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	34.2	5.2	1	06/16/14 13:56	06/17/14 21:03	11100-14-4	
Surrogates									
Tetrachloro-m-xylene (S)	93 %.		50-128		1	06/16/14 13:56	06/17/14 21:03	877-09-8	
Decachlorobiphenyl (S)	88 %.		55-130		1	06/16/14 13:56	06/17/14 21:03	2051-24-3	CL
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	254	mg/kg	21.0	3.1	1	06/17/14 14:02	06/18/14 10:25		T6
Surrogates									
n-Triacontane (S)	97 %.		50-150		1	06/17/14 14:02	06/18/14 10:25	638-68-6	
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	10.2	5.1	1	06/21/14 00:00	06/22/14 02:34		
Surrogates									
a,a,a-Trifluorotoluene (S)	96 %.		80-125		1	06/21/14 00:00	06/22/14 02:34	98-08-8	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	4.2	1.2	5	06/17/14 12:52	06/18/14 22:45	7440-38-2	
Lead	2560	mg/kg	4.2	0.31	5	06/17/14 12:52	06/18/14 22:45	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	3.8	%	0.10	0.10	1		06/16/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	125	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	83-32-9	
Acenaphthylene	ND	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	208-96-8	
Anthracene	303	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	120-12-7	
Benzo(a)anthracene	724	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	56-55-3	
Benzo(a)pyrene	759	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	50-32-8	
Benzo(b)fluoranthene	990	ug/kg	104	2.9	1	06/16/14 12:59	06/18/14 12:43	205-99-2	
Benzo(g,h,i)perylene	707	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	191-24-2	
Benzo(k)fluoranthene	386	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	207-08-9	
Chrysene	853	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	218-01-9	
Dibenz(a,h)anthracene	135	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	53-70-3	
Fluoranthene	1470	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	206-44-0	
Fluorene	138	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	86-73-7	
Indeno(1,2,3-cd)pyrene	459	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	193-39-5	
Naphthalene	ND	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-2 0.5' **Lab ID: 10270772013** Collected: 06/13/14 10:10 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM			Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550						
Phenanthrene	1120	ug/kg	104	51.8	1	06/16/14 12:59	06/18/14 12:43	85-01-8	
Pyrene	1450	ug/kg	104	2.4	1	06/16/14 12:59	06/18/14 12:43	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	1100	ug/kg	104		1	06/16/14 12:59	06/18/14 12:43		
Surrogates									
2-Fluorobiphenyl (S)	100	%	30-150		1	06/16/14 12:59	06/18/14 12:43	321-60-8	P3
Terphenyl-d14 (S)	107	%	30-150		1	06/16/14 12:59	06/18/14 12:43	1718-51-0	
8260 MSV 5030 Med Level			Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND	ug/kg	1040	522	1	06/20/14 15:49	06/23/14 08:50	67-64-1	
Allyl chloride	ND	ug/kg	209	6.8	1	06/20/14 15:49	06/23/14 08:50	107-05-1	
Benzene	ND	ug/kg	20.9	10.4	1	06/20/14 15:49	06/23/14 08:50	71-43-2	
Bromobenzene	ND	ug/kg	52.2	9.0	1	06/20/14 15:49	06/23/14 08:50	108-86-1	
Bromochloromethane	ND	ug/kg	52.2	7.1	1	06/20/14 15:49	06/23/14 08:50	74-97-5	
Bromodichloromethane	ND	ug/kg	52.2	9.3	1	06/20/14 15:49	06/23/14 08:50	75-27-4	
Bromoform	ND	ug/kg	209	104	1	06/20/14 15:49	06/23/14 08:50	75-25-2	
Bromomethane	ND	ug/kg	522	261	1	06/20/14 15:49	06/23/14 08:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	261	130	1	06/20/14 15:49	06/23/14 08:50	78-93-3	
n-Butylbenzene	ND	ug/kg	52.2	6.3	1	06/20/14 15:49	06/23/14 08:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	52.2	6.1	1	06/20/14 15:49	06/23/14 08:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	98-06-6	
Carbon tetrachloride	ND	ug/kg	52.2	8.4	1	06/20/14 15:49	06/23/14 08:50	56-23-5	
Chlorobenzene	ND	ug/kg	52.2	8.0	1	06/20/14 15:49	06/23/14 08:50	108-90-7	
Chloroethane	ND	ug/kg	522	13.2	1	06/20/14 15:49	06/23/14 08:50	75-00-3	L3
Chloroform	ND	ug/kg	52.2	8.0	1	06/20/14 15:49	06/23/14 08:50	67-66-3	
Chloromethane	ND	ug/kg	209	9.5	1	06/20/14 15:49	06/23/14 08:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	522	27.7	1	06/20/14 15:49	06/23/14 08:50	96-12-8	
Dibromochloromethane	ND	ug/kg	52.2	11.3	1	06/20/14 15:49	06/23/14 08:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	52.2	6.4	1	06/20/14 15:49	06/23/14 08:50	106-93-4	
Dibromomethane	ND	ug/kg	52.2	14.6	1	06/20/14 15:49	06/23/14 08:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	209	24.1	1	06/20/14 15:49	06/23/14 08:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	52.2	7.3	1	06/20/14 15:49	06/23/14 08:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	52.2	12.3	1	06/20/14 15:49	06/23/14 08:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	52.2	10.4	1	06/20/14 15:49	06/23/14 08:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	52.2	10.6	1	06/20/14 15:49	06/23/14 08:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	52.2	10.4	1	06/20/14 15:49	06/23/14 08:50	156-60-5	
Dichlorofluoromethane	ND	ug/kg	522	261	1	06/20/14 15:49	06/23/14 08:50	75-43-4	
1,2-Dichloropropane	ND	ug/kg	52.2	8.4	1	06/20/14 15:49	06/23/14 08:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	209	7.0	1	06/20/14 15:49	06/23/14 08:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	52.2	8.5	1	06/20/14 15:49	06/23/14 08:50	563-58-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-2 0.5' **Lab ID: 10270772013** Collected: 06/13/14 10:10 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level			Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
cis-1,3-Dichloropropene	ND	ug/kg	52.2	6.6	1	06/20/14 15:49	06/23/14 08:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	52.2	7.3	1	06/20/14 15:49	06/23/14 08:50	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	209	11.1	1	06/20/14 15:49	06/23/14 08:50	60-29-7	
Ethylbenzene	ND	ug/kg	52.2	6.6	1	06/20/14 15:49	06/23/14 08:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	261	130	1	06/20/14 15:49	06/23/14 08:50	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	52.2	7.6	1	06/20/14 15:49	06/23/14 08:50	99-87-6	
Methylene Chloride	ND	ug/kg	209	104	1	06/20/14 15:49	06/23/14 08:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	261	130	1	06/20/14 15:49	06/23/14 08:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	1634-04-4	
Naphthalene	ND	ug/kg	209	104	1	06/20/14 15:49	06/23/14 08:50	91-20-3	
n-Propylbenzene	ND	ug/kg	52.2	6.3	1	06/20/14 15:49	06/23/14 08:50	103-65-1	
Styrene	ND	ug/kg	52.2	7.8	1	06/20/14 15:49	06/23/14 08:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.2	7.2	1	06/20/14 15:49	06/23/14 08:50	79-34-5	
Tetrachloroethene	ND	ug/kg	52.2	18.8	1	06/20/14 15:49	06/23/14 08:50	127-18-4	
Tetrahydrofuran	ND	ug/kg	2090	66.7	1	06/20/14 15:49	06/23/14 08:50	109-99-9	
Toluene	ND	ug/kg	52.2	7.1	1	06/20/14 15:49	06/23/14 08:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	52.2	12.4	1	06/20/14 15:49	06/23/14 08:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	52.2	9.5	1	06/20/14 15:49	06/23/14 08:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	52.2	8.8	1	06/20/14 15:49	06/23/14 08:50	79-00-5	
Trichloroethene	ND	ug/kg	52.2	6.5	1	06/20/14 15:49	06/23/14 08:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	209	9.3	1	06/20/14 15:49	06/23/14 08:50	75-69-4	L3
1,2,3-Trichloropropane	ND	ug/kg	209	6.9	1	06/20/14 15:49	06/23/14 08:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	209	21.8	1	06/20/14 15:49	06/23/14 08:50	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	52.2	26.1	1	06/20/14 15:49	06/23/14 08:50	108-67-8	
Vinyl chloride	ND	ug/kg	20.9	7.7	1	06/20/14 15:49	06/23/14 08:50	75-01-4	
Xylene (Total)	ND	ug/kg	157	20.5	1	06/20/14 15:49	06/23/14 08:50	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104 %.		74-125		1	06/20/14 15:49	06/23/14 08:50	17060-07-0	
Toluene-d8 (S)	101 %.		75-125		1	06/20/14 15:49	06/23/14 08:50	2037-26-5	
4-Bromofluorobenzene (S)	104 %.		75-125		1	06/20/14 15:49	06/23/14 08:50	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Sample Project No.: 10270772

Sample: GP-2 1.5' **Lab ID: 10270772014** Collected: 06/13/14 10:15 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	5.0	1.5	5	06/17/14 12:52	06/18/14 22:52	7440-38-2	
Lead	215	mg/kg	5.0	0.37	5	06/17/14 12:52	06/18/14 22:52	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	6.0	%	0.10	0.10	1		06/16/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	51.5	ug/kg	10.6	5.3	1	06/16/14 12:59	06/18/14 13:06	83-32-9	
Acenaphthylene	17.2	ug/kg	10.6	5.3	1	06/16/14 12:59	06/18/14 13:06	208-96-8	
Anthracene	118	ug/kg	10.6	5.3	1	06/16/14 12:59	06/18/14 13:06	120-12-7	
Benzo(a)anthracene	454	ug/kg	106	53.2	10	06/16/14 12:59	06/17/14 23:16	56-55-3	
Benzo(a)pyrene	474	ug/kg	106	53.2	10	06/16/14 12:59	06/17/14 23:16	50-32-8	
Benzo(b)fluoranthene	632	ug/kg	106	3.0	10	06/16/14 12:59	06/17/14 23:16	205-99-2	
Benzo(g,h,i)perylene	311	ug/kg	10.6	5.3	1	06/16/14 12:59	06/18/14 13:06	191-24-2	
Benzo(k)fluoranthene	173	ug/kg	10.6	5.3	1	06/16/14 12:59	06/18/14 13:06	207-08-9	
Chrysene	545	ug/kg	106	53.2	10	06/16/14 12:59	06/17/14 23:16	218-01-9	
Dibenz(a,h)anthracene	75.8	ug/kg	10.6	5.3	1	06/16/14 12:59	06/18/14 13:06	53-70-3	
Fluoranthene	900	ug/kg	106	53.2	10	06/16/14 12:59	06/17/14 23:16	206-44-0	
Fluorene	38.4	ug/kg	10.6	5.3	1	06/16/14 12:59	06/18/14 13:06	86-73-7	
Indeno(1,2,3-cd)pyrene	245	ug/kg	10.6	5.3	1	06/16/14 12:59	06/18/14 13:06	193-39-5	
Naphthalene	19.4	ug/kg	10.6	5.3	1	06/16/14 12:59	06/18/14 13:06	91-20-3	
Phenanthrene	558	ug/kg	106	53.2	10	06/16/14 12:59	06/17/14 23:16	85-01-8	
Pyrene	900	ug/kg	106	2.4	10	06/16/14 12:59	06/17/14 23:16	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	672	ug/kg	106		10	06/16/14 12:59	06/17/14 23:16		
Surrogates									
2-Fluorobiphenyl (S)	92	%	30-150		1	06/16/14 12:59	06/18/14 13:06	321-60-8	
Terphenyl-d14 (S)	102	%	30-150		1	06/16/14 12:59	06/18/14 13:06	1718-51-0	
8260 MSV 5030 Med Level									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1080	538	1	06/20/14 15:49	06/23/14 08:32	67-64-1	
Allyl chloride	ND	ug/kg	215	7.1	1	06/20/14 15:49	06/23/14 08:32	107-05-1	
Benzene	ND	ug/kg	21.5	10.8	1	06/20/14 15:49	06/23/14 08:32	71-43-2	
Bromobenzene	ND	ug/kg	53.8	9.3	1	06/20/14 15:49	06/23/14 08:32	108-86-1	
Bromochloromethane	ND	ug/kg	53.8	7.3	1	06/20/14 15:49	06/23/14 08:32	74-97-5	
Bromodichloromethane	ND	ug/kg	53.8	9.6	1	06/20/14 15:49	06/23/14 08:32	75-27-4	
Bromoform	ND	ug/kg	215	108	1	06/20/14 15:49	06/23/14 08:32	75-25-2	
Bromomethane	ND	ug/kg	538	269	1	06/20/14 15:49	06/23/14 08:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	269	135	1	06/20/14 15:49	06/23/14 08:32	78-93-3	
n-Butylbenzene	ND	ug/kg	53.8	6.5	1	06/20/14 15:49	06/23/14 08:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	53.8	6.3	1	06/20/14 15:49	06/23/14 08:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	98-06-6	
Carbon tetrachloride	ND	ug/kg	53.8	8.7	1	06/20/14 15:49	06/23/14 08:32	56-23-5	
Chlorobenzene	ND	ug/kg	53.8	8.3	1	06/20/14 15:49	06/23/14 08:32	108-90-7	
Chloroethane	ND	ug/kg	538	13.6	1	06/20/14 15:49	06/23/14 08:32	75-00-3	L3
Chloroform	ND	ug/kg	53.8	8.2	1	06/20/14 15:49	06/23/14 08:32	67-66-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-2 1.5' **Lab ID: 10270772014** Collected: 06/13/14 10:15 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chloromethane	ND	ug/kg	215	9.8	1	06/20/14 15:49	06/23/14 08:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	538	28.5	1	06/20/14 15:49	06/23/14 08:32	96-12-8	
Dibromochloromethane	ND	ug/kg	53.8	11.6	1	06/20/14 15:49	06/23/14 08:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	53.8	6.6	1	06/20/14 15:49	06/23/14 08:32	106-93-4	
Dibromomethane	ND	ug/kg	53.8	15.1	1	06/20/14 15:49	06/23/14 08:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	215	24.9	1	06/20/14 15:49	06/23/14 08:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	53.8	7.5	1	06/20/14 15:49	06/23/14 08:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	53.8	12.7	1	06/20/14 15:49	06/23/14 08:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	53.8	10.8	1	06/20/14 15:49	06/23/14 08:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	53.8	11.0	1	06/20/14 15:49	06/23/14 08:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	53.8	10.7	1	06/20/14 15:49	06/23/14 08:32	156-60-5	
Dichlorofluoromethane	ND	ug/kg	538	269	1	06/20/14 15:49	06/23/14 08:32	75-43-4	
1,2-Dichloropropane	ND	ug/kg	53.8	8.6	1	06/20/14 15:49	06/23/14 08:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	215	7.2	1	06/20/14 15:49	06/23/14 08:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	53.8	8.8	1	06/20/14 15:49	06/23/14 08:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	53.8	6.8	1	06/20/14 15:49	06/23/14 08:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	53.8	7.6	1	06/20/14 15:49	06/23/14 08:32	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	215	11.4	1	06/20/14 15:49	06/23/14 08:32	60-29-7	
Ethylbenzene	ND	ug/kg	53.8	6.8	1	06/20/14 15:49	06/23/14 08:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	269	135	1	06/20/14 15:49	06/23/14 08:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	53.8	7.8	1	06/20/14 15:49	06/23/14 08:32	99-87-6	
Methylene Chloride	ND	ug/kg	215	108	1	06/20/14 15:49	06/23/14 08:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	269	135	1	06/20/14 15:49	06/23/14 08:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	1634-04-4	
Naphthalene	ND	ug/kg	215	108	1	06/20/14 15:49	06/23/14 08:32	91-20-3	
n-Propylbenzene	ND	ug/kg	53.8	6.5	1	06/20/14 15:49	06/23/14 08:32	103-65-1	
Styrene	ND	ug/kg	53.8	8.0	1	06/20/14 15:49	06/23/14 08:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	53.8	7.4	1	06/20/14 15:49	06/23/14 08:32	79-34-5	
Tetrachloroethene	ND	ug/kg	53.8	19.4	1	06/20/14 15:49	06/23/14 08:32	127-18-4	
Tetrahydrofuran	ND	ug/kg	2150	68.8	1	06/20/14 15:49	06/23/14 08:32	109-99-9	
Toluene	ND	ug/kg	53.8	7.3	1	06/20/14 15:49	06/23/14 08:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	53.8	12.8	1	06/20/14 15:49	06/23/14 08:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	53.8	9.8	1	06/20/14 15:49	06/23/14 08:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	53.8	9.1	1	06/20/14 15:49	06/23/14 08:32	79-00-5	
Trichloroethene	114	ug/kg	53.8	6.7	1	06/20/14 15:49	06/23/14 08:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	215	9.6	1	06/20/14 15:49	06/23/14 08:32	75-69-4	L3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-2 1.5' **Lab ID: 10270772014** Collected: 06/13/14 10:15 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,3-Trichloropropane	ND	ug/kg	215	7.1	1	06/20/14 15:49	06/23/14 08:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	215	22.5	1	06/20/14 15:49	06/23/14 08:32	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	53.8	26.9	1	06/20/14 15:49	06/23/14 08:32	108-67-8	
Vinyl chloride	ND	ug/kg	21.5	8.0	1	06/20/14 15:49	06/23/14 08:32	75-01-4	
Xylene (Total)	ND	ug/kg	161	21.1	1	06/20/14 15:49	06/23/14 08:32	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104 %		74-125		1	06/20/14 15:49	06/23/14 08:32	17060-07-0	
Toluene-d8 (S)	99 %		75-125		1	06/20/14 15:49	06/23/14 08:32	2037-26-5	
4-Bromofluorobenzene (S)	99 %		75-125		1	06/20/14 15:49	06/23/14 08:32	460-00-4	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Sample Project No.: 10270772

Sample: GP-2 3' **Lab ID: 10270772015** Collected: 06/13/14 10:20 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	4.9	1.4	5	06/17/14 12:52	06/18/14 22:59	7440-38-2	
Lead	165	mg/kg	4.9	0.37	5	06/17/14 12:52	06/18/14 22:59	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	14.2	%	0.10	0.10	1		06/16/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	85.1	ug/kg	11.6	5.8	1	06/16/14 12:59	06/18/14 13:29	83-32-9	
Acenaphthylene	95.8	ug/kg	11.6	5.8	1	06/16/14 12:59	06/18/14 13:29	208-96-8	
Anthracene	265	ug/kg	11.6	5.8	1	06/16/14 12:59	06/18/14 13:29	120-12-7	
Benzo(a)anthracene	1040	ug/kg	116	58.2	10	06/16/14 12:59	06/17/14 23:39	56-55-3	
Benzo(a)pyrene	1150	ug/kg	116	58.2	10	06/16/14 12:59	06/17/14 23:39	50-32-8	
Benzo(b)fluoranthene	1420	ug/kg	116	3.3	10	06/16/14 12:59	06/17/14 23:39	205-99-2	
Benzo(g,h,i)perylene	821	ug/kg	116	58.2	10	06/16/14 12:59	06/17/14 23:39	191-24-2	
Benzo(k)fluoranthene	479	ug/kg	116	58.2	10	06/16/14 12:59	06/17/14 23:39	207-08-9	
Chrysene	1220	ug/kg	116	58.2	10	06/16/14 12:59	06/17/14 23:39	218-01-9	
Dibenz(a,h)anthracene	186	ug/kg	11.6	5.8	1	06/16/14 12:59	06/18/14 13:29	53-70-3	
Fluoranthene	1640	ug/kg	116	58.2	10	06/16/14 12:59	06/17/14 23:39	206-44-0	
Fluorene	75.9	ug/kg	11.6	5.8	1	06/16/14 12:59	06/18/14 13:29	86-73-7	
Indeno(1,2,3-cd)pyrene	649	ug/kg	116	58.2	10	06/16/14 12:59	06/17/14 23:39	193-39-5	
Naphthalene	96.3	ug/kg	11.6	5.8	1	06/16/14 12:59	06/18/14 13:29	91-20-3	
Phenanthrene	1010	ug/kg	116	58.2	10	06/16/14 12:59	06/17/14 23:39	85-01-8	
Pyrene	2020	ug/kg	116	2.7	10	06/16/14 12:59	06/17/14 23:39	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	1620	ug/kg	116		10	06/16/14 12:59	06/17/14 23:39		
Surrogates									
2-Fluorobiphenyl (S)	94	%	30-150		1	06/16/14 12:59	06/18/14 13:29	321-60-8	
Terphenyl-d14 (S)	92	%	30-150		1	06/16/14 12:59	06/18/14 13:29	1718-51-0	
8260 MSV 5030 Med Level									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1230	616	1	06/20/14 16:21	06/22/14 19:39	67-64-1	
Allyl chloride	ND	ug/kg	247	8.1	1	06/20/14 16:21	06/22/14 19:39	107-05-1	
Benzene	ND	ug/kg	24.7	12.3	1	06/20/14 16:21	06/22/14 19:39	71-43-2	
Bromobenzene	ND	ug/kg	61.6	10.7	1	06/20/14 16:21	06/22/14 19:39	108-86-1	
Bromochloromethane	ND	ug/kg	61.6	8.4	1	06/20/14 16:21	06/22/14 19:39	74-97-5	
Bromodichloromethane	ND	ug/kg	61.6	11.0	1	06/20/14 16:21	06/22/14 19:39	75-27-4	
Bromoform	ND	ug/kg	247	123	1	06/20/14 16:21	06/22/14 19:39	75-25-2	
Bromomethane	ND	ug/kg	616	308	1	06/20/14 16:21	06/22/14 19:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	308	154	1	06/20/14 16:21	06/22/14 19:39	78-93-3	
n-Butylbenzene	ND	ug/kg	61.6	7.5	1	06/20/14 16:21	06/22/14 19:39	104-51-8	
sec-Butylbenzene	ND	ug/kg	61.6	7.3	1	06/20/14 16:21	06/22/14 19:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	98-06-6	
Carbon tetrachloride	ND	ug/kg	61.6	10	1	06/20/14 16:21	06/22/14 19:39	56-23-5	
Chlorobenzene	ND	ug/kg	61.6	9.5	1	06/20/14 16:21	06/22/14 19:39	108-90-7	
Chloroethane	ND	ug/kg	616	15.5	1	06/20/14 16:21	06/22/14 19:39	75-00-3	
Chloroform	ND	ug/kg	61.6	9.4	1	06/20/14 16:21	06/22/14 19:39	67-66-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-2 3' **Lab ID: 10270772015** Collected: 06/13/14 10:20 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chloromethane	ND	ug/kg	247	11.2	1	06/20/14 16:21	06/22/14 19:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	616	32.7	1	06/20/14 16:21	06/22/14 19:39	96-12-8	
Dibromochloromethane	ND	ug/kg	61.6	13.3	1	06/20/14 16:21	06/22/14 19:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	61.6	7.6	1	06/20/14 16:21	06/22/14 19:39	106-93-4	
Dibromomethane	ND	ug/kg	61.6	17.3	1	06/20/14 16:21	06/22/14 19:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	247	28.5	1	06/20/14 16:21	06/22/14 19:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	61.6	8.6	1	06/20/14 16:21	06/22/14 19:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	61.6	14.5	1	06/20/14 16:21	06/22/14 19:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	61.6	12.3	1	06/20/14 16:21	06/22/14 19:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	61.6	12.6	1	06/20/14 16:21	06/22/14 19:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	61.6	12.2	1	06/20/14 16:21	06/22/14 19:39	156-60-5	
Dichlorofluoromethane	ND	ug/kg	616	308	1	06/20/14 16:21	06/22/14 19:39	75-43-4	
1,2-Dichloropropane	ND	ug/kg	61.6	9.9	1	06/20/14 16:21	06/22/14 19:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	247	8.2	1	06/20/14 16:21	06/22/14 19:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	61.6	10.1	1	06/20/14 16:21	06/22/14 19:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	61.6	7.7	1	06/20/14 16:21	06/22/14 19:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	61.6	8.7	1	06/20/14 16:21	06/22/14 19:39	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	247	13.1	1	06/20/14 16:21	06/22/14 19:39	60-29-7	
Ethylbenzene	ND	ug/kg	61.6	7.7	1	06/20/14 16:21	06/22/14 19:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	308	154	1	06/20/14 16:21	06/22/14 19:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	98-82-8	
p-Isopropyltoluene	ND	ug/kg	61.6	8.9	1	06/20/14 16:21	06/22/14 19:39	99-87-6	
Methylene Chloride	ND	ug/kg	247	123	1	06/20/14 16:21	06/22/14 19:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	308	154	1	06/20/14 16:21	06/22/14 19:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	1634-04-4	
Naphthalene	ND	ug/kg	247	123	1	06/20/14 16:21	06/22/14 19:39	91-20-3	L2
n-Propylbenzene	61.7	ug/kg	61.6	7.5	1	06/20/14 16:21	06/22/14 19:39	103-65-1	
Styrene	ND	ug/kg	61.6	9.2	1	06/20/14 16:21	06/22/14 19:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	61.6	8.5	1	06/20/14 16:21	06/22/14 19:39	79-34-5	
Tetrachloroethene	299	ug/kg	61.6	22.3	1	06/20/14 16:21	06/22/14 19:39	127-18-4	
Tetrahydrofuran	ND	ug/kg	2470	78.8	1	06/20/14 16:21	06/22/14 19:39	109-99-9	
Toluene	ND	ug/kg	61.6	8.4	1	06/20/14 16:21	06/22/14 19:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	61.6	14.7	1	06/20/14 16:21	06/22/14 19:39	87-61-6	L2
1,2,4-Trichlorobenzene	ND	ug/kg	61.6	11.2	1	06/20/14 16:21	06/22/14 19:39	120-82-1	L2
1,1,1-Trichloroethane	ND	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	61.6	10.4	1	06/20/14 16:21	06/22/14 19:39	79-00-5	
Trichloroethene	2120	ug/kg	61.6	7.7	1	06/20/14 16:21	06/22/14 19:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	247	11.0	1	06/20/14 16:21	06/22/14 19:39	75-69-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-2 3' **Lab ID: 10270772015** Collected: 06/13/14 10:20 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,3-Trichloropropane	ND	ug/kg	247	8.2	1	06/20/14 16:21	06/22/14 19:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	247	25.8	1	06/20/14 16:21	06/22/14 19:39	76-13-1	
1,2,4-Trimethylbenzene	153	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	61.6	30.8	1	06/20/14 16:21	06/22/14 19:39	108-67-8	
Vinyl chloride	ND	ug/kg	24.7	9.1	1	06/20/14 16:21	06/22/14 19:39	75-01-4	
Xylene (Total)	285	ug/kg	185	24.2	1	06/20/14 16:21	06/22/14 19:39	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%	74-125		1	06/20/14 16:21	06/22/14 19:39	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	06/20/14 16:21	06/22/14 19:39	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	06/20/14 16:21	06/22/14 19:39	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-2 5' **Lab ID: 10270772016** Collected: 06/13/14 10:25 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	11.2	mg/kg	4.8	0.72	1	06/17/14 14:02	06/18/14 10:54		T6
Surrogates									
n-Triacontane (S)	71	%	50-150		1	06/17/14 14:02	06/18/14 10:54	638-68-6	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	0.86	0.25	1	06/17/14 12:52	06/18/14 23:06	7440-38-2	
Lead	15.2	mg/kg	0.86	0.064	1	06/17/14 12:52	06/18/14 23:06	7439-92-1	
Dry Weight Analytical Method: ASTM D2974									
Percent Moisture	4.8	%	0.10	0.10	1		06/16/14 00:00		
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	15.6	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	83-32-9	
Acenaphthylene	ND	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	208-96-8	
Anthracene	38.0	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	120-12-7	
Benzo(a)anthracene	82.2	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	56-55-3	
Benzo(a)pyrene	82.1	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	50-32-8	
Benzo(b)fluoranthene	103	ug/kg	10.5	0.29	1	06/16/14 12:59	06/18/14 13:51	205-99-2	
Benzo(g,h,i)perylene	60.7	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	191-24-2	
Benzo(k)fluoranthene	38.6	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	207-08-9	
Chrysene	99.0	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	218-01-9	
Dibenz(a,h)anthracene	14.3	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	53-70-3	
Fluoranthene	171	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	206-44-0	
Fluorene	20.3	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	86-73-7	
Indeno(1,2,3-cd)pyrene	44.4	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	193-39-5	
Naphthalene	16.7	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	91-20-3	
Phenanthrene	146	ug/kg	10.5	5.2	1	06/16/14 12:59	06/18/14 13:51	85-01-8	
Pyrene	167	ug/kg	10.5	0.24	1	06/16/14 12:59	06/18/14 13:51	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	118	ug/kg	10.5		1	06/16/14 12:59	06/18/14 13:51		
Surrogates									
2-Fluorobiphenyl (S)	92	%	30-150		1	06/16/14 12:59	06/18/14 13:51	321-60-8	
Terphenyl-d14 (S)	96	%	30-150		1	06/16/14 12:59	06/18/14 13:51	1718-51-0	
8260 MSV 5030 Med Level Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1070	536	1	06/20/14 16:21	06/22/14 19:56	67-64-1	
Allyl chloride	ND	ug/kg	214	7.0	1	06/20/14 16:21	06/22/14 19:56	107-05-1	
Benzene	ND	ug/kg	21.4	10.7	1	06/20/14 16:21	06/22/14 19:56	71-43-2	
Bromobenzene	ND	ug/kg	53.6	9.3	1	06/20/14 16:21	06/22/14 19:56	108-86-1	
Bromochloromethane	ND	ug/kg	53.6	7.3	1	06/20/14 16:21	06/22/14 19:56	74-97-5	
Bromodichloromethane	ND	ug/kg	53.6	9.5	1	06/20/14 16:21	06/22/14 19:56	75-27-4	
Bromoform	ND	ug/kg	214	107	1	06/20/14 16:21	06/22/14 19:56	75-25-2	
Bromomethane	ND	ug/kg	536	268	1	06/20/14 16:21	06/22/14 19:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	268	134	1	06/20/14 16:21	06/22/14 19:56	78-93-3	
n-Butylbenzene	ND	ug/kg	53.6	6.5	1	06/20/14 16:21	06/22/14 19:56	104-51-8	
sec-Butylbenzene	ND	ug/kg	53.6	6.3	1	06/20/14 16:21	06/22/14 19:56	135-98-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-2 5' **Lab ID: 10270772016** Collected: 06/13/14 10:25 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
tert-Butylbenzene	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	98-06-6	
Carbon tetrachloride	ND	ug/kg	53.6	8.7	1	06/20/14 16:21	06/22/14 19:56	56-23-5	
Chlorobenzene	ND	ug/kg	53.6	8.2	1	06/20/14 16:21	06/22/14 19:56	108-90-7	
Chloroethane	ND	ug/kg	536	13.5	1	06/20/14 16:21	06/22/14 19:56	75-00-3	
Chloroform	ND	ug/kg	53.6	8.2	1	06/20/14 16:21	06/22/14 19:56	67-66-3	
Chloromethane	ND	ug/kg	214	9.8	1	06/20/14 16:21	06/22/14 19:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	536	28.4	1	06/20/14 16:21	06/22/14 19:56	96-12-8	
Dibromochloromethane	ND	ug/kg	53.6	11.6	1	06/20/14 16:21	06/22/14 19:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	53.6	6.6	1	06/20/14 16:21	06/22/14 19:56	106-93-4	
Dibromomethane	ND	ug/kg	53.6	15.0	1	06/20/14 16:21	06/22/14 19:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	214	24.8	1	06/20/14 16:21	06/22/14 19:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	53.6	7.5	1	06/20/14 16:21	06/22/14 19:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	53.6	12.7	1	06/20/14 16:21	06/22/14 19:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	53.6	10.7	1	06/20/14 16:21	06/22/14 19:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	53.6	10.9	1	06/20/14 16:21	06/22/14 19:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	53.6	10.6	1	06/20/14 16:21	06/22/14 19:56	156-60-5	
Dichlorofluoromethane	ND	ug/kg	536	268	1	06/20/14 16:21	06/22/14 19:56	75-43-4	
1,2-Dichloropropane	ND	ug/kg	53.6	8.6	1	06/20/14 16:21	06/22/14 19:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	214	7.2	1	06/20/14 16:21	06/22/14 19:56	594-20-7	
1,1-Dichloropropene	ND	ug/kg	53.6	8.8	1	06/20/14 16:21	06/22/14 19:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	53.6	6.7	1	06/20/14 16:21	06/22/14 19:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	53.6	7.5	1	06/20/14 16:21	06/22/14 19:56	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	214	11.4	1	06/20/14 16:21	06/22/14 19:56	60-29-7	
Ethylbenzene	ND	ug/kg	53.6	6.7	1	06/20/14 16:21	06/22/14 19:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	268	134	1	06/20/14 16:21	06/22/14 19:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	98-82-8	
p-Isopropyltoluene	ND	ug/kg	53.6	7.8	1	06/20/14 16:21	06/22/14 19:56	99-87-6	
Methylene Chloride	ND	ug/kg	214	107	1	06/20/14 16:21	06/22/14 19:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	268	134	1	06/20/14 16:21	06/22/14 19:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	1634-04-4	
Naphthalene	ND	ug/kg	214	107	1	06/20/14 16:21	06/22/14 19:56	91-20-3	L2
n-Propylbenzene	ND	ug/kg	53.6	6.5	1	06/20/14 16:21	06/22/14 19:56	103-65-1	
Styrene	ND	ug/kg	53.6	8.0	1	06/20/14 16:21	06/22/14 19:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	53.6	7.4	1	06/20/14 16:21	06/22/14 19:56	79-34-5	
Tetrachloroethene	ND	ug/kg	53.6	19.4	1	06/20/14 16:21	06/22/14 19:56	127-18-4	
Tetrahydrofuran	ND	ug/kg	2140	68.5	1	06/20/14 16:21	06/22/14 19:56	109-99-9	
Toluene	ND	ug/kg	53.6	7.3	1	06/20/14 16:21	06/22/14 19:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	53.6	12.8	1	06/20/14 16:21	06/22/14 19:56	87-61-6	L2

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-2 5' **Lab ID: 10270772016** Collected: 06/13/14 10:25 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,4-Trichlorobenzene	ND	ug/kg	53.6	9.7	1	06/20/14 16:21	06/22/14 19:56	120-82-1	L2
1,1,1-Trichloroethane	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	53.6	9.1	1	06/20/14 16:21	06/22/14 19:56	79-00-5	
Trichloroethene	ND	ug/kg	53.6	6.7	1	06/20/14 16:21	06/22/14 19:56	79-01-6	
Trichlorofluoromethane	ND	ug/kg	214	9.5	1	06/20/14 16:21	06/22/14 19:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	214	7.1	1	06/20/14 16:21	06/22/14 19:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	214	22.4	1	06/20/14 16:21	06/22/14 19:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	53.6	26.8	1	06/20/14 16:21	06/22/14 19:56	108-67-8	
Vinyl chloride	ND	ug/kg	21.4	8.0	1	06/20/14 16:21	06/22/14 19:56	75-01-4	
Xylene (Total)	ND	ug/kg	161	21.1	1	06/20/14 16:21	06/22/14 19:56	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%	74-125		1	06/20/14 16:21	06/22/14 19:56	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	06/20/14 16:21	06/22/14 19:56	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	06/20/14 16:21	06/22/14 19:56	460-00-4	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-9 0.5' **Lab ID: 10270772017** Collected: 06/13/14 10:30 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	4.2	1.2	5	06/17/14 12:52	06/18/14 23:12	7440-38-2	
Lead	3590	mg/kg	4.2	0.31	5	06/17/14 12:52	06/18/14 23:12	7439-92-1	
Dry Weight		Analytical Method: ASTM D2974							
Percent Moisture	7.4	%	0.10	0.10	1		06/16/14 00:00		

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-9 4' **Lab ID: 10270772018** Collected: 06/13/14 10:35 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050							
Arsenic	7.7	mg/kg	1.1	0.31	1	06/19/14 08:43	06/20/14 16:32	7440-38-2	
Lead	717	mg/kg	1.1	0.079	1	06/19/14 08:43	06/20/14 16:32	7439-92-1	M1,R1
Dry Weight		Analytical Method: ASTM D2974							
Percent Moisture	13.1	%	0.10	0.10	1		06/16/14 00:00		

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-9 24' **Lab ID: 10270772019** Collected: 06/13/14 10:40 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS		Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	2390	mg/kg	591	88.7	50	06/17/14 14:02	06/18/14 13:43		T7
Surrogates									
n-Triacontane (S)	0 %		50-150		50	06/17/14 14:02	06/18/14 13:43	638-68-6	D5,S4
Dry Weight		Analytical Method: ASTM D2974							
Percent Moisture	15.4	%	0.10	0.10	1		06/16/14 00:00		
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	6080	3040	5	06/20/14 16:21	06/23/14 23:14	67-64-1	
Allyl chloride	ND	ug/kg	1220	39.9	5	06/20/14 16:21	06/23/14 23:14	107-05-1	
Benzene	ND	ug/kg	122	60.8	5	06/20/14 16:21	06/23/14 23:14	71-43-2	
Bromobenzene	ND	ug/kg	304	52.7	5	06/20/14 16:21	06/23/14 23:14	108-86-1	
Bromochloromethane	ND	ug/kg	304	41.4	5	06/20/14 16:21	06/23/14 23:14	74-97-5	
Bromodichloromethane	ND	ug/kg	304	54.1	5	06/20/14 16:21	06/23/14 23:14	75-27-4	
Bromoform	ND	ug/kg	1220	608	5	06/20/14 16:21	06/23/14 23:14	75-25-2	
Bromomethane	ND	ug/kg	3040	1520	5	06/20/14 16:21	06/23/14 23:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	1520	760	5	06/20/14 16:21	06/23/14 23:14	78-93-3	
n-Butylbenzene	9020	ug/kg	304	36.9	5	06/20/14 16:21	06/23/14 23:14	104-51-8	
sec-Butylbenzene	5310	ug/kg	304	35.8	5	06/20/14 16:21	06/23/14 23:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	98-06-6	
Carbon tetrachloride	ND	ug/kg	304	49.2	5	06/20/14 16:21	06/23/14 23:14	56-23-5	
Chlorobenzene	ND	ug/kg	304	46.8	5	06/20/14 16:21	06/23/14 23:14	108-90-7	
Chloroethane	ND	ug/kg	3040	76.7	5	06/20/14 16:21	06/23/14 23:14	75-00-3	
Chloroform	ND	ug/kg	304	46.4	5	06/20/14 16:21	06/23/14 23:14	67-66-3	
Chloromethane	ND	ug/kg	1220	55.5	5	06/20/14 16:21	06/23/14 23:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3040	161	5	06/20/14 16:21	06/23/14 23:14	96-12-8	
Dibromochloromethane	ND	ug/kg	304	65.7	5	06/20/14 16:21	06/23/14 23:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	304	37.5	5	06/20/14 16:21	06/23/14 23:14	106-93-4	
Dibromomethane	ND	ug/kg	304	85.2	5	06/20/14 16:21	06/23/14 23:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	1220	141	5	06/20/14 16:21	06/23/14 23:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	304	42.5	5	06/20/14 16:21	06/23/14 23:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	304	71.8	5	06/20/14 16:21	06/23/14 23:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	304	60.8	5	06/20/14 16:21	06/23/14 23:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	304	62.1	5	06/20/14 16:21	06/23/14 23:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	304	60.4	5	06/20/14 16:21	06/23/14 23:14	156-60-5	
Dichlorofluoromethane	ND	ug/kg	3040	1520	5	06/20/14 16:21	06/23/14 23:14	75-43-4	
1,2-Dichloropropane	ND	ug/kg	304	48.9	5	06/20/14 16:21	06/23/14 23:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	1220	40.6	5	06/20/14 16:21	06/23/14 23:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	304	49.7	5	06/20/14 16:21	06/23/14 23:14	563-58-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-9 24' **Lab ID: 10270772019** Collected: 06/13/14 10:40 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
cis-1,3-Dichloropropene	ND	ug/kg	304	38.2	5	06/20/14 16:21	06/23/14 23:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	304	42.8	5	06/20/14 16:21	06/23/14 23:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	1220	64.5	5	06/20/14 16:21	06/23/14 23:14	60-29-7	
Ethylbenzene	ND	ug/kg	304	38.2	5	06/20/14 16:21	06/23/14 23:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	1520	760	5	06/20/14 16:21	06/23/14 23:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	304	44.1	5	06/20/14 16:21	06/23/14 23:14	99-87-6	
Methylene Chloride	ND	ug/kg	1220	608	5	06/20/14 16:21	06/23/14 23:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1520	760	5	06/20/14 16:21	06/23/14 23:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	1634-04-4	
Naphthalene	ND	ug/kg	1220	608	5	06/20/14 16:21	06/23/14 23:14	91-20-3	L2
n-Propylbenzene	426	ug/kg	304	36.9	5	06/20/14 16:21	06/23/14 23:14	103-65-1	
Styrene	ND	ug/kg	304	45.4	5	06/20/14 16:21	06/23/14 23:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	304	41.7	5	06/20/14 16:21	06/23/14 23:14	79-34-5	
Tetrachloroethene	ND	ug/kg	304	110	5	06/20/14 16:21	06/23/14 23:14	127-18-4	
Tetrahydrofuran	ND	ug/kg	12200	389	5	06/20/14 16:21	06/23/14 23:14	109-99-9	
Toluene	ND	ug/kg	304	41.4	5	06/20/14 16:21	06/23/14 23:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	304	72.4	5	06/20/14 16:21	06/23/14 23:14	87-61-6	L2
1,2,4-Trichlorobenzene	ND	ug/kg	304	55.3	5	06/20/14 16:21	06/23/14 23:14	120-82-1	L2
1,1,1-Trichloroethane	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	304	51.5	5	06/20/14 16:21	06/23/14 23:14	79-00-5	
Trichloroethene	ND	ug/kg	304	37.8	5	06/20/14 16:21	06/23/14 23:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	1220	54.1	5	06/20/14 16:21	06/23/14 23:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	1220	40.4	5	06/20/14 16:21	06/23/14 23:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	1220	127	5	06/20/14 16:21	06/23/14 23:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	304	152	5	06/20/14 16:21	06/23/14 23:14	108-67-8	
Vinyl chloride	ND	ug/kg	122	45.1	5	06/20/14 16:21	06/23/14 23:14	75-01-4	
Xylene (Total)	ND	ug/kg	913	119	5	06/20/14 16:21	06/23/14 23:14	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100 %.		74-125		5	06/20/14 16:21	06/23/14 23:14	17060-07-0	
Toluene-d8 (S)	101 %.		75-125		5	06/20/14 16:21	06/23/14 23:14	2037-26-5	
4-Bromofluorobenzene (S)	131 %.		75-125		5	06/20/14 16:21	06/23/14 23:14	460-00-4	1M

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-20 1.5' Lab ID: 10270772020 Collected: 06/13/14 10:45 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.4	16.5	1	06/16/14 13:56	06/17/14 19:12	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.4	5.5	1	06/16/14 13:56	06/17/14 19:12	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.4	8.8	1	06/16/14 13:56	06/17/14 19:12	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.4	6.6	1	06/16/14 13:56	06/17/14 19:12	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.4	7.7	1	06/16/14 13:56	06/17/14 19:12	12672-29-6	
PCB-1254 (Aroclor 1254)	271	ug/kg	36.4	7.7	1	06/16/14 13:56	06/17/14 19:12	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	36.4	16.5	1	06/16/14 13:56	06/17/14 19:12	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	36.4	6.6	1	06/16/14 13:56	06/17/14 19:12	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	36.4	5.5	1	06/16/14 13:56	06/17/14 19:12	11100-14-4	
Surrogates									
Tetrachloro-m-xylene (S)	95 %.		50-128		1	06/16/14 13:56	06/17/14 19:12	877-09-8	
Decachlorobiphenyl (S)	92 %.		55-130		1	06/16/14 13:56	06/17/14 19:12	2051-24-3	CL
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	12.8	mg/kg	5.0	0.76	1	06/17/14 14:02	06/18/14 10:39		T6
Surrogates									
n-Triacontane (S)	80 %.		50-150		1	06/17/14 14:02	06/18/14 10:39	638-68-6	
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	11.4	5.7	1	06/21/14 00:00	06/22/14 02:54		
Surrogates									
a,a,a-Trifluorotoluene (S)	103 %.		80-125		1	06/21/14 00:00	06/22/14 02:54	98-08-8	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	2.7	mg/kg	0.95	0.28	1	06/19/14 08:43	06/20/14 17:10	7440-38-2	
Lead	114	mg/kg	0.95	0.070	1	06/19/14 08:43	06/20/14 17:10	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	9.9	%	0.10	0.10	1		06/16/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	83-32-9	
Acenaphthylene	ND	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	208-96-8	
Anthracene	648	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	120-12-7	
Benzo(a)anthracene	2020	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	56-55-3	
Benzo(a)pyrene	2350	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	50-32-8	
Benzo(b)fluoranthene	2970	ug/kg	220	6.2	20	06/16/14 12:59	06/17/14 22:30	205-99-2	
Benzo(g,h,i)perylene	1690	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	191-24-2	
Benzo(k)fluoranthene	1120	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	207-08-9	
Chrysene	2310	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	218-01-9	
Dibenz(a,h)anthracene	401	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	53-70-3	
Fluoranthene	3950	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	206-44-0	
Fluorene	ND	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	86-73-7	
Indeno(1,2,3-cd)pyrene	1370	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	193-39-5	
Naphthalene	ND	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	91-20-3	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-20 1.5' Lab ID: 10270772020 Collected: 06/13/14 10:45 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Phenanthrene	2160	ug/kg	220	110	20	06/16/14 12:59	06/17/14 22:30	85-01-8	
Pyrene	4090	ug/kg	220	5.1	20	06/16/14 12:59	06/17/14 22:30	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	3340	ug/kg	220		20	06/16/14 12:59	06/17/14 22:30		
Surrogates									
2-Fluorobiphenyl (S)	0 %.		30-150		20	06/16/14 12:59	06/17/14 22:30	321-60-8	D4,S4
Terphenyl-d14 (S)	0 %.		30-150		20	06/16/14 12:59	06/17/14 22:30	1718-51-0	S4
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1160	579	1	06/20/14 16:21	06/22/14 20:14	67-64-1	
Allyl chloride	ND	ug/kg	232	7.6	1	06/20/14 16:21	06/22/14 20:14	107-05-1	
Benzene	ND	ug/kg	23.2	11.6	1	06/20/14 16:21	06/22/14 20:14	71-43-2	
Bromobenzene	ND	ug/kg	57.9	10.0	1	06/20/14 16:21	06/22/14 20:14	108-86-1	
Bromochloromethane	ND	ug/kg	57.9	7.9	1	06/20/14 16:21	06/22/14 20:14	74-97-5	
Bromodichloromethane	ND	ug/kg	57.9	10.3	1	06/20/14 16:21	06/22/14 20:14	75-27-4	
Bromoform	ND	ug/kg	232	116	1	06/20/14 16:21	06/22/14 20:14	75-25-2	
Bromomethane	ND	ug/kg	579	290	1	06/20/14 16:21	06/22/14 20:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	290	145	1	06/20/14 16:21	06/22/14 20:14	78-93-3	
n-Butylbenzene	ND	ug/kg	57.9	7.0	1	06/20/14 16:21	06/22/14 20:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.9	6.8	1	06/20/14 16:21	06/22/14 20:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.9	9.4	1	06/20/14 16:21	06/22/14 20:14	56-23-5	
Chlorobenzene	ND	ug/kg	57.9	8.9	1	06/20/14 16:21	06/22/14 20:14	108-90-7	
Chloroethane	ND	ug/kg	579	14.6	1	06/20/14 16:21	06/22/14 20:14	75-00-3	
Chloroform	ND	ug/kg	57.9	8.8	1	06/20/14 16:21	06/22/14 20:14	67-66-3	
Chloromethane	ND	ug/kg	232	10.6	1	06/20/14 16:21	06/22/14 20:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	579	30.7	1	06/20/14 16:21	06/22/14 20:14	96-12-8	
Dibromochloromethane	ND	ug/kg	57.9	12.5	1	06/20/14 16:21	06/22/14 20:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.9	7.1	1	06/20/14 16:21	06/22/14 20:14	106-93-4	
Dibromomethane	ND	ug/kg	57.9	16.2	1	06/20/14 16:21	06/22/14 20:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	232	26.8	1	06/20/14 16:21	06/22/14 20:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.9	8.1	1	06/20/14 16:21	06/22/14 20:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.9	13.7	1	06/20/14 16:21	06/22/14 20:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.9	11.6	1	06/20/14 16:21	06/22/14 20:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.9	11.8	1	06/20/14 16:21	06/22/14 20:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.9	11.5	1	06/20/14 16:21	06/22/14 20:14	156-60-5	
Dichlorofluoromethane	ND	ug/kg	579	290	1	06/20/14 16:21	06/22/14 20:14	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.9	9.3	1	06/20/14 16:21	06/22/14 20:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	232	7.7	1	06/20/14 16:21	06/22/14 20:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.9	9.5	1	06/20/14 16:21	06/22/14 20:14	563-58-6	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: GP-20 1.5' Lab ID: 10270772020 Collected: 06/13/14 10:45 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
cis-1,3-Dichloropropene	ND	ug/kg	57.9	7.3	1	06/20/14 16:21	06/22/14 20:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	57.9	8.2	1	06/20/14 16:21	06/22/14 20:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	232	12.3	1	06/20/14 16:21	06/22/14 20:14	60-29-7	
Ethylbenzene	ND	ug/kg	57.9	7.3	1	06/20/14 16:21	06/22/14 20:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	290	145	1	06/20/14 16:21	06/22/14 20:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.9	8.4	1	06/20/14 16:21	06/22/14 20:14	99-87-6	
Methylene Chloride	ND	ug/kg	232	116	1	06/20/14 16:21	06/22/14 20:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	290	145	1	06/20/14 16:21	06/22/14 20:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	1634-04-4	
Naphthalene	ND	ug/kg	232	116	1	06/20/14 16:21	06/22/14 20:14	91-20-3	L2
n-Propylbenzene	ND	ug/kg	57.9	7.0	1	06/20/14 16:21	06/22/14 20:14	103-65-1	
Styrene	ND	ug/kg	57.9	8.7	1	06/20/14 16:21	06/22/14 20:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.9	7.9	1	06/20/14 16:21	06/22/14 20:14	79-34-5	
Tetrachloroethene	ND	ug/kg	57.9	20.9	1	06/20/14 16:21	06/22/14 20:14	127-18-4	
Tetrahydrofuran	ND	ug/kg	2320	74.0	1	06/20/14 16:21	06/22/14 20:14	109-99-9	
Toluene	ND	ug/kg	57.9	7.9	1	06/20/14 16:21	06/22/14 20:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.9	13.8	1	06/20/14 16:21	06/22/14 20:14	87-61-6	L2
1,2,4-Trichlorobenzene	ND	ug/kg	57.9	10.5	1	06/20/14 16:21	06/22/14 20:14	120-82-1	L2
1,1,1-Trichloroethane	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.9	9.8	1	06/20/14 16:21	06/22/14 20:14	79-00-5	
Trichloroethene	ND	ug/kg	57.9	7.2	1	06/20/14 16:21	06/22/14 20:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	232	10.3	1	06/20/14 16:21	06/22/14 20:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	232	7.7	1	06/20/14 16:21	06/22/14 20:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	232	24.2	1	06/20/14 16:21	06/22/14 20:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.9	29.0	1	06/20/14 16:21	06/22/14 20:14	108-67-8	
Vinyl chloride	ND	ug/kg	23.2	8.6	1	06/20/14 16:21	06/22/14 20:14	75-01-4	
Xylene (Total)	ND	ug/kg	174	22.7	1	06/20/14 16:21	06/22/14 20:14	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102 %.		74-125		1	06/20/14 16:21	06/22/14 20:14	17060-07-0	
Toluene-d8 (S)	100 %.		75-125		1	06/20/14 16:21	06/22/14 20:14	2037-26-5	
4-Bromofluorobenzene (S)	100 %.		75-125		1	06/20/14 16:21	06/22/14 20:14	460-00-4	

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: TRIP BLANK **Lab ID: 10270772021** Collected: 06/13/14 00:00 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1000	500	1	06/20/14 16:21	06/22/14 18:11	67-64-1	
Allyl chloride	ND	ug/kg	200	6.6	1	06/20/14 16:21	06/22/14 18:11	107-05-1	
Benzene	ND	ug/kg	20.0	10.0	1	06/20/14 16:21	06/22/14 18:11	71-43-2	
Bromobenzene	ND	ug/kg	50.0	8.7	1	06/20/14 16:21	06/22/14 18:11	108-86-1	
Bromochloromethane	ND	ug/kg	50.0	6.8	1	06/20/14 16:21	06/22/14 18:11	74-97-5	
Bromodichloromethane	ND	ug/kg	50.0	8.9	1	06/20/14 16:21	06/22/14 18:11	75-27-4	
Bromoform	ND	ug/kg	200	100	1	06/20/14 16:21	06/22/14 18:11	75-25-2	
Bromomethane	ND	ug/kg	500	250	1	06/20/14 16:21	06/22/14 18:11	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	125	1	06/20/14 16:21	06/22/14 18:11	78-93-3	
n-Butylbenzene	ND	ug/kg	50.0	6.1	1	06/20/14 16:21	06/22/14 18:11	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	5.9	1	06/20/14 16:21	06/22/14 18:11	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	98-06-6	
Carbon tetrachloride	ND	ug/kg	50.0	8.1	1	06/20/14 16:21	06/22/14 18:11	56-23-5	
Chlorobenzene	ND	ug/kg	50.0	7.7	1	06/20/14 16:21	06/22/14 18:11	108-90-7	
Chloroethane	ND	ug/kg	500	12.6	1	06/20/14 16:21	06/22/14 18:11	75-00-3	
Chloroform	ND	ug/kg	50.0	7.6	1	06/20/14 16:21	06/22/14 18:11	67-66-3	
Chloromethane	ND	ug/kg	200	9.1	1	06/20/14 16:21	06/22/14 18:11	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	26.5	1	06/20/14 16:21	06/22/14 18:11	96-12-8	
Dibromochloromethane	ND	ug/kg	50.0	10.8	1	06/20/14 16:21	06/22/14 18:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	6.2	1	06/20/14 16:21	06/22/14 18:11	106-93-4	
Dibromomethane	ND	ug/kg	50.0	14.0	1	06/20/14 16:21	06/22/14 18:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	23.1	1	06/20/14 16:21	06/22/14 18:11	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.0	7.0	1	06/20/14 16:21	06/22/14 18:11	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	11.8	1	06/20/14 16:21	06/22/14 18:11	107-06-2	
1,1-Dichloroethene	ND	ug/kg	50.0	10	1	06/20/14 16:21	06/22/14 18:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.0	10.2	1	06/20/14 16:21	06/22/14 18:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.0	9.9	1	06/20/14 16:21	06/22/14 18:11	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	250	1	06/20/14 16:21	06/22/14 18:11	75-43-4	
1,2-Dichloropropane	ND	ug/kg	50.0	8.0	1	06/20/14 16:21	06/22/14 18:11	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	6.7	1	06/20/14 16:21	06/22/14 18:11	594-20-7	
1,1-Dichloropropene	ND	ug/kg	50.0	8.2	1	06/20/14 16:21	06/22/14 18:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.0	6.3	1	06/20/14 16:21	06/22/14 18:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	50.0	7.0	1	06/20/14 16:21	06/22/14 18:11	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	200	10.6	1	06/20/14 16:21	06/22/14 18:11	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	6.3	1	06/20/14 16:21	06/22/14 18:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	250	125	1	06/20/14 16:21	06/22/14 18:11	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	7.2	1	06/20/14 16:21	06/22/14 18:11	99-87-6	
Methylene Chloride	ND	ug/kg	200	100	1	06/20/14 16:21	06/22/14 18:11	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Sample: TRIP BLANK **Lab ID: 10270772021** Collected: 06/13/14 00:00 Received: 06/13/14 16:19 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	125	1	06/20/14 16:21	06/22/14 18:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	1634-04-4	
Naphthalene	ND	ug/kg	200	100	1	06/20/14 16:21	06/22/14 18:11	91-20-3	L2
n-Propylbenzene	ND	ug/kg	50.0	6.1	1	06/20/14 16:21	06/22/14 18:11	103-65-1	
Styrene	ND	ug/kg	50.0	7.5	1	06/20/14 16:21	06/22/14 18:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	6.9	1	06/20/14 16:21	06/22/14 18:11	79-34-5	
Tetrachloroethene	ND	ug/kg	50.0	18.0	1	06/20/14 16:21	06/22/14 18:11	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	63.9	1	06/20/14 16:21	06/22/14 18:11	109-99-9	
Toluene	ND	ug/kg	50.0	6.8	1	06/20/14 16:21	06/22/14 18:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	11.9	1	06/20/14 16:21	06/22/14 18:11	87-61-6	L2
1,2,4-Trichlorobenzene	ND	ug/kg	50.0	9.1	1	06/20/14 16:21	06/22/14 18:11	120-82-1	L2
1,1,1-Trichloroethane	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	8.5	1	06/20/14 16:21	06/22/14 18:11	79-00-5	
Trichloroethene	ND	ug/kg	50.0	6.2	1	06/20/14 16:21	06/22/14 18:11	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	8.9	1	06/20/14 16:21	06/22/14 18:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	200	6.6	1	06/20/14 16:21	06/22/14 18:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	20.9	1	06/20/14 16:21	06/22/14 18:11	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	25.0	1	06/20/14 16:21	06/22/14 18:11	108-67-8	
Vinyl chloride	ND	ug/kg	20.0	7.4	1	06/20/14 16:21	06/22/14 18:11	75-01-4	
Xylene (Total)	ND	ug/kg	150	19.6	1	06/20/14 16:21	06/22/14 18:11	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103 %		74-125		1	06/20/14 16:21	06/22/14 18:11	17060-07-0	
Toluene-d8 (S)	101 %		75-125		1	06/20/14 16:21	06/22/14 18:11	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125		1	06/20/14 16:21	06/22/14 18:11	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

QC Batch: GCV/12218 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 10270772013, 10270772020

METHOD BLANK: 1713538 Matrix: Solid

Associated Lab Samples: 10270772013, 10270772020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	06/22/14 00:37	
a,a,a-Trifluorotoluene (S)	%.	104	80-125	06/22/14 00:37	

LABORATORY CONTROL SAMPLE & LCSD: 1713539 1713540

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	44.3	41.9	89	84	80-120	6	20	
a,a,a-Trifluorotoluene (S)	%.				104	104	80-125			

MATRIX SPIKE SAMPLE: 1713541

Parameter	Units	10270417019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	ND	57.5	69.3	120	80-120	
a,a,a-Trifluorotoluene (S)	%.				103	80-125	

SAMPLE DUPLICATE: 1713542

Parameter	Units	10270417020 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	ND		20	
a,a,a-Trifluorotoluene (S)	%.	103	105	5		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

QC Batch:	GCV/12222	Analysis Method:	WI MOD GRO
QC Batch Method:	WI MOD GRO	Analysis Description:	WIGRO GCV Water
Associated Lab Samples:	10270772011		

METHOD BLANK: 1714604 Matrix: Water
Associated Lab Samples: 10270772011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	100	06/23/14 20:02	
a,a,a-Trifluorotoluene (S)	%.	108	80-125	06/23/14 20:02	

LABORATORY CONTROL SAMPLE & LCSD: 1714605

Parameter	Units	1714606								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	1000	1030	918	103	92	80-120	11	20	
a,a,a-Trifluorotoluene (S)	%.				104	104	80-125			

MATRIX SPIKE SAMPLE: 1715173

Parameter	Units	10270592001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	ND	1000	1070	107	80-120	
a,a,a-Trifluorotoluene (S)	%.				102	80-125	

SAMPLE DUPLICATE: 1715174

Parameter	Units	10270592002 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		20	
a,a,a-Trifluorotoluene (S)	%.	106	106	.2		

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

QC Batch: MPRP/46653 Analysis Method: EPA 6010C
 QC Batch Method: EPA 3050 Analysis Description: 6010C Solids
 Associated Lab Samples: 10270772013, 10270772014, 10270772015, 10270772016, 10270772017

METHOD BLANK: 1709082 Matrix: Solid
 Associated Lab Samples: 10270772013, 10270772014, 10270772015, 10270772016, 10270772017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.88	06/18/14 20:18	
Lead	mg/kg	ND	0.88	06/18/14 20:18	

LABORATORY CONTROL SAMPLE: 1709083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	44.6	41.7	93	80-120	
Lead	mg/kg	44.6	42.2	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1709084 1709085

Parameter	Units	10270793008		1709084		1709085		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Arsenic	mg/kg	<0.29	44.2	35	35.4	29.5	80	84	75-125	18	20
Lead	mg/kg	0.85J	44.2	35	35.8	31.9	79	89	75-125	12	20

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

QC Batch: MPRP/46704

Analysis Method: EPA 6010C

QC Batch Method: EPA 3050

Analysis Description: 6010C Solids

Associated Lab Samples: 10270772018, 10270772020

METHOD BLANK: 1710825

Matrix: Solid

Associated Lab Samples: 10270772018, 10270772020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.93	06/20/14 16:23	
Lead	mg/kg	ND	0.93	06/20/14 16:23	

LABORATORY CONTROL SAMPLE: 1710826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	48.5	47.9	99	80-120	
Lead	mg/kg	48.5	46.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1710827 1710828

Parameter	Units	10270772018		1710827		1710828		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Arsenic	mg/kg	7.7	48.3	45.3	54.9	51.1	98	96	7	20	
Lead	mg/kg	717	48.3	45.3	326	434	-809	-625	28	20	M1,R1

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

QC Batch: MPRP/46676 Analysis Method: 6010C Met
 QC Batch Method: EPA 3010 Analysis Description: 6010C Water Dissolved
 Associated Lab Samples: 10270772001, 10270772002, 10270772003, 10270772004, 10270772005, 10270772006, 10270772007, 10270772008, 10270772009, 10270772010, 10270772011

METHOD BLANK: 1709457 Matrix: Water
 Associated Lab Samples: 10270772001, 10270772002, 10270772003, 10270772004, 10270772005, 10270772006, 10270772007, 10270772008, 10270772009, 10270772010, 10270772011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	20.0	06/20/14 15:43	
Lead, Dissolved	ug/L	ND	10.0	06/20/14 15:43	

LABORATORY CONTROL SAMPLE: 1709458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	1030	103	80-120	
Lead, Dissolved	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1709459 1709460

Parameter	Units	1709459		1709460		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Arsenic, Dissolved	ug/L	ND	1000	1030	1030	103	103	75-125	.3	20	
Lead, Dissolved	ug/L	ND	1000	962	965	96	96	75-125	.2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

QC Batch:	MPRP/46639	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	10270772012, 10270772013, 10270772014, 10270772015, 10270772016, 10270772017, 10270772018, 10270772019, 10270772020		

SAMPLE DUPLICATE: 1708942

Parameter	Units	10270771008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.9	9.2	3	30	

SAMPLE DUPLICATE: 1708943

Parameter	Units	10270718003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.9	6.9	.2	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

QC Batch: MSV/27510 Analysis Method: EPA 8260
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV 5030 Med Level
 Associated Lab Samples: 10270772012, 10270772013, 10270772014

METHOD BLANK: 1713569 Matrix: Solid

Associated Lab Samples: 10270772012, 10270772013, 10270772014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	06/23/14 02:58	
1,1,1-Trichloroethane	ug/kg	ND	50.0	06/23/14 02:58	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	06/23/14 02:58	
1,1,2-Trichloroethane	ug/kg	ND	50.0	06/23/14 02:58	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	06/23/14 02:58	
1,1-Dichloroethane	ug/kg	ND	50.0	06/23/14 02:58	
1,1-Dichloroethene	ug/kg	ND	50.0	06/23/14 02:58	
1,1-Dichloropropene	ug/kg	ND	50.0	06/23/14 02:58	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	06/23/14 02:58	
1,2,3-Trichloropropane	ug/kg	ND	200	06/23/14 02:58	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	06/23/14 02:58	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	06/23/14 02:58	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	06/23/14 02:58	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	06/23/14 02:58	
1,2-Dichlorobenzene	ug/kg	ND	50.0	06/23/14 02:58	
1,2-Dichloroethane	ug/kg	ND	50.0	06/23/14 02:58	
1,2-Dichloropropane	ug/kg	ND	50.0	06/23/14 02:58	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	06/23/14 02:58	
1,3-Dichlorobenzene	ug/kg	ND	50.0	06/23/14 02:58	
1,3-Dichloropropane	ug/kg	ND	50.0	06/23/14 02:58	
1,4-Dichlorobenzene	ug/kg	ND	50.0	06/23/14 02:58	
2,2-Dichloropropane	ug/kg	ND	200	06/23/14 02:58	
2-Butanone (MEK)	ug/kg	ND	250	06/23/14 02:58	
2-Chlorotoluene	ug/kg	ND	50.0	06/23/14 02:58	
4-Chlorotoluene	ug/kg	ND	50.0	06/23/14 02:58	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	06/23/14 02:58	
Acetone	ug/kg	ND	1000	06/23/14 02:58	
Allyl chloride	ug/kg	ND	200	06/23/14 02:58	
Benzene	ug/kg	ND	20.0	06/23/14 02:58	
Bromobenzene	ug/kg	ND	50.0	06/23/14 02:58	
Bromochloromethane	ug/kg	ND	50.0	06/23/14 02:58	
Bromodichloromethane	ug/kg	ND	50.0	06/23/14 02:58	
Bromoform	ug/kg	ND	200	06/23/14 02:58	
Bromomethane	ug/kg	ND	500	06/23/14 02:58	
Carbon tetrachloride	ug/kg	ND	50.0	06/23/14 02:58	
Chlorobenzene	ug/kg	ND	50.0	06/23/14 02:58	
Chloroethane	ug/kg	ND	500	06/23/14 02:58	
Chloroform	ug/kg	ND	50.0	06/23/14 02:58	
Chloromethane	ug/kg	ND	200	06/23/14 02:58	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	06/23/14 02:58	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	06/23/14 02:58	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

METHOD BLANK: 1713569

Matrix: Solid

Associated Lab Samples: 10270772012, 10270772013, 10270772014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	50.0	06/23/14 02:58	
Dibromomethane	ug/kg	ND	50.0	06/23/14 02:58	
Dichlorodifluoromethane	ug/kg	ND	200	06/23/14 02:58	
Dichlorofluoromethane	ug/kg	ND	500	06/23/14 02:58	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	06/23/14 02:58	
Ethylbenzene	ug/kg	ND	50.0	06/23/14 02:58	
Hexachloro-1,3-butadiene	ug/kg	ND	250	06/23/14 02:58	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	06/23/14 02:58	
Methyl-tert-butyl ether	ug/kg	ND	50.0	06/23/14 02:58	
Methylene Chloride	ug/kg	ND	200	06/23/14 02:58	
n-Butylbenzene	ug/kg	ND	50.0	06/23/14 02:58	
n-Propylbenzene	ug/kg	ND	50.0	06/23/14 02:58	
Naphthalene	ug/kg	ND	200	06/23/14 02:58	
p-Isopropyltoluene	ug/kg	ND	50.0	06/23/14 02:58	
sec-Butylbenzene	ug/kg	ND	50.0	06/23/14 02:58	
Styrene	ug/kg	ND	50.0	06/23/14 02:58	
tert-Butylbenzene	ug/kg	ND	50.0	06/23/14 02:58	
Tetrachloroethene	ug/kg	ND	50.0	06/23/14 02:58	
Tetrahydrofuran	ug/kg	ND	2000	06/23/14 02:58	
Toluene	ug/kg	ND	50.0	06/23/14 02:58	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	06/23/14 02:58	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	06/23/14 02:58	
Trichloroethene	ug/kg	ND	50.0	06/23/14 02:58	
Trichlorofluoromethane	ug/kg	ND	200	06/23/14 02:58	
Vinyl chloride	ug/kg	ND	20.0	06/23/14 02:58	
Xylene (Total)	ug/kg	ND	150	06/23/14 02:58	
1,2-Dichloroethane-d4 (S)	%	102	74-125	06/23/14 02:58	
4-Bromofluorobenzene (S)	%	102	75-125	06/23/14 02:58	
Toluene-d8 (S)	%	101	75-125	06/23/14 02:58	

LABORATORY CONTROL SAMPLE: 1713570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1100	110	68-125	
1,1,1-Trichloroethane	ug/kg	1000	1130	113	62-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1080	108	61-127	
1,1,2-Trichloroethane	ug/kg	1000	1070	107	70-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1230	123	56-149	
1,1-Dichloroethane	ug/kg	1000	1100	110	60-127	
1,1-Dichloroethene	ug/kg	1000	1040	104	63-125	
1,1-Dichloropropene	ug/kg	1000	1060	106	67-125	
1,2,3-Trichlorobenzene	ug/kg	1000	878	88	63-132	
1,2,3-Trichloropropane	ug/kg	1000	1130	113	67-125	
1,2,4-Trichlorobenzene	ug/kg	1000	958	96	64-132	

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

LABORATORY CONTROL SAMPLE: 1713570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1020	102	64-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2640	106	56-132	
1,2-Dibromoethane (EDB)	ug/kg	1000	1070	107	72-125	
1,2-Dichlorobenzene	ug/kg	1000	1080	108	68-125	
1,2-Dichloroethane	ug/kg	1000	1050	105	69-125	
1,2-Dichloropropane	ug/kg	1000	1040	104	73-125	
1,3,5-Trimethylbenzene	ug/kg	1000	1060	106	64-125	
1,3-Dichlorobenzene	ug/kg	1000	1090	109	67-125	
1,3-Dichloropropane	ug/kg	1000	1100	110	71-125	
1,4-Dichlorobenzene	ug/kg	1000	1060	106	69-125	
2,2-Dichloropropane	ug/kg	1000	946	95	53-131	
2-Butanone (MEK)	ug/kg	5000	5930	119	52-131	
2-Chlorotoluene	ug/kg	1000	1050	105	66-125	
4-Chlorotoluene	ug/kg	1000	1080	108	52-131	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	6220	124	64-125	
Acetone	ug/kg	5000	5490	110	42-150	
Allyl chloride	ug/kg	1000	948	95	58-128	
Benzene	ug/kg	1000	1040	104	71-125	
Bromobenzene	ug/kg	1000	1070	107	69-125	
Bromochloromethane	ug/kg	1000	995	100	75-125	
Bromodichloromethane	ug/kg	1000	1040	104	69-125	
Bromoform	ug/kg	1000	1110	111	62-125	
Bromomethane	ug/kg	1000	861	86	62-125	
Carbon tetrachloride	ug/kg	1000	1080	108	66-125	
Chlorobenzene	ug/kg	1000	1050	105	75-125	
Chloroethane	ug/kg	1000	1260	126	61-125	LO
Chloroform	ug/kg	1000	1040	104	72-125	
Chloromethane	ug/kg	1000	955	96	59-125	
cis-1,2-Dichloroethene	ug/kg	1000	922	92	74-125	
cis-1,3-Dichloropropene	ug/kg	1000	963	96	68-125	
Dibromochloromethane	ug/kg	1000	1070	107	65-125	
Dibromomethane	ug/kg	1000	1040	104	72-125	
Dichlorodifluoromethane	ug/kg	1000	860	86	39-125	
Dichlorofluoromethane	ug/kg	1000	1070	107	64-127	
Diethyl ether (Ethyl ether)	ug/kg	1000	1040	104	66-125	
Ethylbenzene	ug/kg	1000	1030	103	69-125	
Hexachloro-1,3-butadiene	ug/kg	1000	1110	111	53-150	
Isopropylbenzene (Cumene)	ug/kg	1000	1090	109	70-125	
Methyl-tert-butyl ether	ug/kg	1000	989	99	69-125	
Methylene Chloride	ug/kg	1000	951	95	71-125	
n-Butylbenzene	ug/kg	1000	1120	112	59-133	
n-Propylbenzene	ug/kg	1000	1130	113	64-125	
Naphthalene	ug/kg	1000	970	97	61-131	
p-Isopropyltoluene	ug/kg	1000	1110	111	63-127	
sec-Butylbenzene	ug/kg	1000	1100	110	64-125	
Styrene	ug/kg	1000	1100	110	74-125	
tert-Butylbenzene	ug/kg	1000	1120	112	66-125	

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

LABORATORY CONTROL SAMPLE: 1713570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	1110	111	68-125	
Tetrahydrofuran	ug/kg	10000	10700	107	68-125	
Toluene	ug/kg	1000	1000	100	70-125	
trans-1,2-Dichloroethene	ug/kg	1000	966	97	68-125	
trans-1,3-Dichloropropene	ug/kg	1000	1040	104	70-125	
Trichloroethene	ug/kg	1000	1110	111	71-125	
Trichlorofluoromethane	ug/kg	1000	1340	134	62-132	L0
Vinyl chloride	ug/kg	1000	1020	102	55-125	
Xylene (Total)	ug/kg	3000	3080	103	74-125	
1,2-Dichloroethane-d4 (S)	%			104	74-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE SAMPLE: 1713571

Parameter	Units	10270605008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1130	1310	115	63-140	
1,1,1-Trichloroethane	ug/kg	ND	1130	1340	117	54-149	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1130	1260	110	46-150	
1,1,2-Trichloroethane	ug/kg	ND	1130	1230	108	62-141	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1130	1490	131	65-150	
1,1-Dichloroethane	ug/kg	ND	1130	1280	112	57-145	
1,1-Dichloroethene	ug/kg	ND	1130	1210	107	58-137	
1,1-Dichloropropene	ug/kg	ND	1130	1270	111	61-141	
1,2,3-Trichlorobenzene	ug/kg	ND	1130	1080	95	62-147	
1,2,3-Trichloropropane	ug/kg	ND	1130	1280	113	65-141	
1,2,4-Trichlorobenzene	ug/kg	ND	1130	1160	102	64-147	
1,2,4-Trimethylbenzene	ug/kg	ND	1130	1210	106	59-144	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2850	3060	107	56-147	
1,2-Dibromoethane (EDB)	ug/kg	ND	1130	1240	108	66-135	
1,2-Dichlorobenzene	ug/kg	ND	1130	1260	110	63-143	
1,2-Dichloroethane	ug/kg	ND	1130	1210	106	57-145	
1,2-Dichloropropane	ug/kg	ND	1130	1240	109	62-139	
1,3,5-Trimethylbenzene	ug/kg	ND	1130	1250	110	60-144	
1,3-Dichlorobenzene	ug/kg	ND	1130	1250	110	61-146	
1,3-Dichloropropane	ug/kg	ND	1130	1280	112	63-138	
1,4-Dichlorobenzene	ug/kg	ND	1130	1210	106	60-145	
2,2-Dichloropropane	ug/kg	ND	1130	1130	99	54-143	
2-Butanone (MEK)	ug/kg	ND	5690	6860	120	45-150	
2-Chlorotoluene	ug/kg	ND	1130	1250	110	62-140	
4-Chlorotoluene	ug/kg	ND	1130	1280	112	60-143	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5690	7250	127	58-146	
Acetone	ug/kg	ND	5690	6140	108	30-150	
Allyl chloride	ug/kg	ND	1130	1140	100	55-142	
Benzene	ug/kg	ND	1130	1230	108	61-134	

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

MATRIX SPIKE SAMPLE: 1713571		10270605008	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	ND	1130	1260	110	64-143	
Bromochloromethane	ug/kg	ND	1130	1150	101	62-141	
Bromodichloromethane	ug/kg	ND	1130	1260	111	57-146	
Bromoform	ug/kg	ND	1130	1310	115	60-136	
Bromomethane	ug/kg	ND	1130	1080	95	54-141	
Carbon tetrachloride	ug/kg	ND	1130	1310	115	50-150	
Chlorobenzene	ug/kg	ND	1130	1260	111	67-135	
Chloroethane	ug/kg	ND	1130	1420	125	46-150	
Chloroform	ug/kg	ND	1130	1200	106	60-141	
Chloromethane	ug/kg	ND	1130	1120	98	46-133	
cis-1,2-Dichloroethene	ug/kg	ND	1130	1120	98	64-138	
cis-1,3-Dichloropropene	ug/kg	ND	1130	1150	101	64-138	
Dibromochloromethane	ug/kg	ND	1130	1250	110	56-145	
Dibromomethane	ug/kg	ND	1130	1190	104	62-138	
Dichlorodifluoromethane	ug/kg	ND	1130	1080	95	30-136	
Dichlorofluoromethane	ug/kg	ND	1130	1300	114	47-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1130	1250	110	59-137	
Ethylbenzene	ug/kg	ND	1130	1240	109	63-135	
Hexachloro-1,3-butadiene	ug/kg	ND	1130	1440	126	65-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1130	1340	118	65-137	
Methyl-tert-butyl ether	ug/kg	ND	1130	1160	102	56-143	
Methylene Chloride	ug/kg	ND	1130	1120	98	62-133	
n-Butylbenzene	ug/kg	ND	1130	1340	118	58-148	
n-Propylbenzene	ug/kg	ND	1130	1320	116	60-142	
Naphthalene	ug/kg	ND	1130	1100	97	61-146	
p-Isopropyltoluene	ug/kg	ND	1130	1310	115	61-145	
sec-Butylbenzene	ug/kg	ND	1130	1320	116	57-147	
Styrene	ug/kg	ND	1130	1300	114	67-137	
tert-Butylbenzene	ug/kg	ND	1130	1310	115	57-149	
Tetrachloroethene	ug/kg	145	1130	1470	117	66-138	
Tetrahydrofuran	ug/kg	ND	11300	12200	107	53-145	
Toluene	ug/kg	ND	1130	1200	105	67-132	
trans-1,2-Dichloroethene	ug/kg	ND	1130	1130	99	61-136	
trans-1,3-Dichloropropene	ug/kg	ND	1130	1210	106	60-140	
Trichloroethene	ug/kg	ND	1130	1250	110	58-150	
Trichlorofluoromethane	ug/kg	ND	1130	1450	128	53-150	
Vinyl chloride	ug/kg	ND	1130	1200	105	45-139	
Xylene (Total)	ug/kg	ND	3410	3690	108	66-136	
1,2-Dichloroethane-d4 (S)	%.				105	74-125	
4-Bromofluorobenzene (S)	%.				100	75-125	
Toluene-d8 (S)	%.				101	75-125	

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

SAMPLE DUPLICATE: 1713572

Parameter	Units	10270605009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

SAMPLE DUPLICATE: 1713572

Parameter	Units	10270605009 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	740	589	23	30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	12.9J		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	105	104	4		
4-Bromofluorobenzene (S)	%.	101	99	5		
Toluene-d8 (S)	%.	101	100	4		

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

QC Batch: MSV/27512 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV 5030 Med Level
Associated Lab Samples: 10270772015, 10270772016, 10270772019, 10270772020, 10270772021

METHOD BLANK: 1713672 Matrix: Solid
Associated Lab Samples: 10270772015, 10270772016, 10270772019, 10270772020, 10270772021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	06/22/14 17:53	
1,1,1-Trichloroethane	ug/kg	ND	50.0	06/22/14 17:53	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	06/22/14 17:53	
1,1,2-Trichloroethane	ug/kg	ND	50.0	06/22/14 17:53	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	06/22/14 17:53	
1,1-Dichloroethane	ug/kg	ND	50.0	06/22/14 17:53	
1,1-Dichloroethene	ug/kg	ND	50.0	06/22/14 17:53	
1,1-Dichloropropene	ug/kg	ND	50.0	06/22/14 17:53	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	06/22/14 17:53	
1,2,3-Trichloropropane	ug/kg	ND	200	06/22/14 17:53	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	06/22/14 17:53	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	06/22/14 17:53	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	06/22/14 17:53	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	06/22/14 17:53	
1,2-Dichlorobenzene	ug/kg	ND	50.0	06/22/14 17:53	
1,2-Dichloroethane	ug/kg	ND	50.0	06/22/14 17:53	
1,2-Dichloropropane	ug/kg	ND	50.0	06/22/14 17:53	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	06/22/14 17:53	
1,3-Dichlorobenzene	ug/kg	ND	50.0	06/22/14 17:53	
1,3-Dichloropropane	ug/kg	ND	50.0	06/22/14 17:53	
1,4-Dichlorobenzene	ug/kg	ND	50.0	06/22/14 17:53	
2,2-Dichloropropane	ug/kg	ND	200	06/22/14 17:53	
2-Butanone (MEK)	ug/kg	ND	250	06/22/14 17:53	
2-Chlorotoluene	ug/kg	ND	50.0	06/22/14 17:53	
4-Chlorotoluene	ug/kg	ND	50.0	06/22/14 17:53	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	06/22/14 17:53	
Acetone	ug/kg	ND	1000	06/22/14 17:53	
Allyl chloride	ug/kg	ND	200	06/22/14 17:53	
Benzene	ug/kg	ND	20.0	06/22/14 17:53	
Bromobenzene	ug/kg	ND	50.0	06/22/14 17:53	
Bromochloromethane	ug/kg	ND	50.0	06/22/14 17:53	
Bromodichloromethane	ug/kg	ND	50.0	06/22/14 17:53	
Bromoform	ug/kg	ND	200	06/22/14 17:53	
Bromomethane	ug/kg	ND	500	06/22/14 17:53	
Carbon tetrachloride	ug/kg	ND	50.0	06/22/14 17:53	
Chlorobenzene	ug/kg	ND	50.0	06/22/14 17:53	
Chloroethane	ug/kg	ND	500	06/22/14 17:53	
Chloroform	ug/kg	ND	50.0	06/22/14 17:53	
Chloromethane	ug/kg	ND	200	06/22/14 17:53	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	06/22/14 17:53	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	06/22/14 17:53	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

METHOD BLANK: 1713672

Matrix: Solid

Associated Lab Samples: 10270772015, 10270772016, 10270772019, 10270772020, 10270772021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	50.0	06/22/14 17:53	
Dibromomethane	ug/kg	ND	50.0	06/22/14 17:53	
Dichlorodifluoromethane	ug/kg	ND	200	06/22/14 17:53	
Dichlorofluoromethane	ug/kg	ND	500	06/22/14 17:53	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	06/22/14 17:53	
Ethylbenzene	ug/kg	ND	50.0	06/22/14 17:53	
Hexachloro-1,3-butadiene	ug/kg	ND	250	06/22/14 17:53	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	06/22/14 17:53	
Methyl-tert-butyl ether	ug/kg	ND	50.0	06/22/14 17:53	
Methylene Chloride	ug/kg	ND	200	06/22/14 17:53	
n-Butylbenzene	ug/kg	ND	50.0	06/22/14 17:53	
n-Propylbenzene	ug/kg	ND	50.0	06/22/14 17:53	
Naphthalene	ug/kg	ND	200	06/22/14 17:53	
p-Isopropyltoluene	ug/kg	ND	50.0	06/22/14 17:53	
sec-Butylbenzene	ug/kg	ND	50.0	06/22/14 17:53	
Styrene	ug/kg	ND	50.0	06/22/14 17:53	
tert-Butylbenzene	ug/kg	ND	50.0	06/22/14 17:53	
Tetrachloroethene	ug/kg	ND	50.0	06/22/14 17:53	
Tetrahydrofuran	ug/kg	ND	2000	06/22/14 17:53	
Toluene	ug/kg	ND	50.0	06/22/14 17:53	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	06/22/14 17:53	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	06/22/14 17:53	
Trichloroethene	ug/kg	ND	50.0	06/22/14 17:53	
Trichlorofluoromethane	ug/kg	ND	200	06/22/14 17:53	
Vinyl chloride	ug/kg	ND	20.0	06/22/14 17:53	
Xylene (Total)	ug/kg	ND	150	06/22/14 17:53	
1,2-Dichloroethane-d4 (S)	%	101	74-125	06/22/14 17:53	
4-Bromofluorobenzene (S)	%	103	75-125	06/22/14 17:53	
Toluene-d8 (S)	%	100	75-125	06/22/14 17:53	

LABORATORY CONTROL SAMPLE: 1713673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	928	93	68-125	
1,1,1-Trichloroethane	ug/kg	1000	984	98	62-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	869	87	61-127	
1,1,2-Trichloroethane	ug/kg	1000	854	85	70-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1050	105	56-149	
1,1-Dichloroethane	ug/kg	1000	968	97	60-127	
1,1-Dichloroethene	ug/kg	1000	904	90	63-125	
1,1-Dichloropropene	ug/kg	1000	916	92	67-125	
1,2,3-Trichlorobenzene	ug/kg	1000	513	51	63-132	L0
1,2,3-Trichloropropane	ug/kg	1000	889	89	67-125	
1,2,4-Trichlorobenzene	ug/kg	1000	634	63	64-132	L0

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

LABORATORY CONTROL SAMPLE: 1713673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	895	89	64-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1810	72	56-132	
1,2-Dibromoethane (EDB)	ug/kg	1000	858	86	72-125	
1,2-Dichlorobenzene	ug/kg	1000	887	89	68-125	
1,2-Dichloroethane	ug/kg	1000	906	91	69-125	
1,2-Dichloropropane	ug/kg	1000	926	93	73-125	
1,3,5-Trimethylbenzene	ug/kg	1000	944	94	64-125	
1,3-Dichlorobenzene	ug/kg	1000	916	92	67-125	
1,3-Dichloropropane	ug/kg	1000	892	89	71-125	
1,4-Dichlorobenzene	ug/kg	1000	874	87	69-125	
2,2-Dichloropropane	ug/kg	1000	853	85	53-131	
2-Butanone (MEK)	ug/kg	5000	3990	80	52-131	
2-Chlorotoluene	ug/kg	1000	929	93	66-125	
4-Chlorotoluene	ug/kg	1000	949	95	52-131	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4490	90	64-125	
Acetone	ug/kg	5000	4930	99	42-150	
Allyl chloride	ug/kg	1000	847	85	58-128	
Benzene	ug/kg	1000	915	91	71-125	
Bromobenzene	ug/kg	1000	909	91	69-125	
Bromochloromethane	ug/kg	1000	885	89	75-125	
Bromodichloromethane	ug/kg	1000	939	94	69-125	
Bromoform	ug/kg	1000	907	91	62-125	
Bromomethane	ug/kg	1000	753	75	62-125	
Carbon tetrachloride	ug/kg	1000	937	94	66-125	
Chlorobenzene	ug/kg	1000	895	90	75-125	
Chloroethane	ug/kg	1000	1090	109	61-125	
Chloroform	ug/kg	1000	909	91	72-125	
Chloromethane	ug/kg	1000	834	83	59-125	
cis-1,2-Dichloroethene	ug/kg	1000	833	83	74-125	
cis-1,3-Dichloropropene	ug/kg	1000	864	86	68-125	
Dibromochloromethane	ug/kg	1000	908	91	65-125	
Dibromomethane	ug/kg	1000	885	89	72-125	
Dichlorodifluoromethane	ug/kg	1000	788	79	39-125	
Dichlorofluoromethane	ug/kg	1000	902	90	64-127	
Diethyl ether (Ethyl ether)	ug/kg	1000	872	87	66-125	
Ethylbenzene	ug/kg	1000	877	88	69-125	
Hexachloro-1,3-butadiene	ug/kg	1000	984	98	53-150	
Isopropylbenzene (Cumene)	ug/kg	1000	959	96	70-125	
Methyl-tert-butyl ether	ug/kg	1000	824	82	69-125	
Methylene Chloride	ug/kg	1000	825	82	71-125	
n-Butylbenzene	ug/kg	1000	1010	101	59-133	
n-Propylbenzene	ug/kg	1000	1000	100	64-125	
Naphthalene	ug/kg	1000	565	57	61-131 L0	
p-Isopropyltoluene	ug/kg	1000	1010	101	63-127	
sec-Butylbenzene	ug/kg	1000	1000	100	64-125	
Styrene	ug/kg	1000	924	92	74-125	
tert-Butylbenzene	ug/kg	1000	1000	100	66-125	

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

LABORATORY CONTROL SAMPLE: 1713673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	964	96	68-125	
Tetrahydrofuran	ug/kg	10000	9150	92	68-125	
Toluene	ug/kg	1000	879	88	70-125	
trans-1,2-Dichloroethene	ug/kg	1000	852	85	68-125	
trans-1,3-Dichloropropene	ug/kg	1000	889	89	70-125	
Trichloroethene	ug/kg	1000	949	95	71-125	
Trichlorofluoromethane	ug/kg	1000	1320	132	62-132	
Vinyl chloride	ug/kg	1000	904	90	55-125	
Xylene (Total)	ug/kg	3000	2640	88	74-125	
1,2-Dichloroethane-d4 (S)	%			102	74-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE SAMPLE: 1713674

Parameter	Units	10270414001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1140	1180	103	63-140	
1,1,1-Trichloroethane	ug/kg	ND	1140	1200	105	54-149	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1140	1200	105	46-150	
1,1,2-Trichloroethane	ug/kg	ND	1140	1120	98	62-141	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1140	1300	114	65-150	
1,1-Dichloroethane	ug/kg	ND	1140	1180	104	57-145	
1,1-Dichloroethene	ug/kg	ND	1140	1080	95	58-137	
1,1-Dichloropropene	ug/kg	ND	1140	1120	98	61-141	
1,2,3-Trichlorobenzene	ug/kg	ND	1140	972	85	62-147	
1,2,3-Trichloropropane	ug/kg	ND	1140	1210	106	65-141	
1,2,4-Trichlorobenzene	ug/kg	ND	1140	1080	94	64-147	
1,2,4-Trimethylbenzene	ug/kg	ND	1140	1090	95	59-144	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2860	2970	104	56-147	
1,2-Dibromoethane (EDB)	ug/kg	ND	1140	1120	98	66-135	
1,2-Dichlorobenzene	ug/kg	ND	1140	1140	100	63-143	
1,2-Dichloroethane	ug/kg	ND	1140	1120	98	57-145	
1,2-Dichloropropane	ug/kg	ND	1140	1140	100	62-139	
1,3,5-Trimethylbenzene	ug/kg	ND	1140	1140	100	60-144	
1,3-Dichlorobenzene	ug/kg	ND	1140	1140	99	61-146	
1,3-Dichloropropane	ug/kg	ND	1140	1150	100	63-138	
1,4-Dichlorobenzene	ug/kg	ND	1140	1100	96	60-145	
2,2-Dichloropropane	ug/kg	ND	1140	1020	89	54-143	
2-Butanone (MEK)	ug/kg	ND	5710	6620	116	45-150	
2-Chlorotoluene	ug/kg	ND	1140	1120	98	62-140	
4-Chlorotoluene	ug/kg	ND	1140	1130	99	60-143	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5710	6850	120	58-146	
Acetone	ug/kg	ND	5710	5640	99	30-150	
Allyl chloride	ug/kg	ND	1140	1030	90	55-142	
Benzene	ug/kg	ND	1140	1110	97	61-134	

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

MATRIX SPIKE SAMPLE: 1713674		10270414001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	ND	1140	1100	97	64-143	
Bromochloromethane	ug/kg	ND	1140	1070	93	62-141	
Bromodichloromethane	ug/kg	ND	1140	1170	103	57-146	
Bromoform	ug/kg	ND	1140	1230	108	60-136	
Bromomethane	ug/kg	ND	1140	1030	90	54-141	
Carbon tetrachloride	ug/kg	ND	1140	1170	102	50-150	
Chlorobenzene	ug/kg	ND	1140	1110	97	67-135	
Chloroethane	ug/kg	ND	1140	1320	115	46-150	
Chloroform	ug/kg	ND	1140	1110	97	60-141	
Chloromethane	ug/kg	ND	1140	1060	93	46-133	
cis-1,2-Dichloroethene	ug/kg	ND	1140	1030	90	64-138	
cis-1,3-Dichloropropene	ug/kg	ND	1140	1060	93	64-138	
Dibromochloromethane	ug/kg	ND	1140	1140	99	56-145	
Dibromomethane	ug/kg	ND	1140	1130	99	62-138	
Dichlorodifluoromethane	ug/kg	ND	1140	951	83	30-136	
Dichlorofluoromethane	ug/kg	ND	1140	1110	97	47-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1140	1140	100	59-137	
Ethylbenzene	ug/kg	ND	1140	1100	96	63-135	
Hexachloro-1,3-butadiene	ug/kg	ND	1140	1310	115	65-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1140	1180	104	65-137	
Methyl-tert-butyl ether	ug/kg	ND	1140	1090	95	56-143	
Methylene Chloride	ug/kg	ND	1140	1020	89	62-133	
n-Butylbenzene	ug/kg	ND	1140	1220	106	58-148	
n-Propylbenzene	ug/kg	ND	1140	1180	104	60-142	
Naphthalene	ug/kg	ND	1140	1020	89	61-146	
p-Isopropyltoluene	ug/kg	ND	1140	1220	107	61-145	
sec-Butylbenzene	ug/kg	ND	1140	1230	107	57-147	
Styrene	ug/kg	ND	1140	1140	100	67-137	
tert-Butylbenzene	ug/kg	ND	1140	1220	106	57-149	
Tetrachloroethene	ug/kg	ND	1140	1170	102	66-138	
Tetrahydrofuran	ug/kg	ND	11400	10800	94	53-145	
Toluene	ug/kg	ND	1140	1090	95	67-132	
trans-1,2-Dichloroethene	ug/kg	ND	1140	1050	92	61-136	
trans-1,3-Dichloropropene	ug/kg	ND	1140	1080	95	60-140	
Trichloroethene	ug/kg	ND	1140	1200	105	58-150	
Trichlorofluoromethane	ug/kg	ND	1140	1340	117	53-150	
Vinyl chloride	ug/kg	ND	1140	1080	94	45-139	
Xylene (Total)	ug/kg	ND	3430	3250	95	66-136	
1,2-Dichloroethane-d4 (S)	%				104	74-125	
4-Bromofluorobenzene (S)	%				102	75-125	
Toluene-d8 (S)	%				101	75-125	

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

SAMPLE DUPLICATE: 1713675

Parameter	Units	10270414002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

SAMPLE DUPLICATE: 1713675

Parameter	Units	10270414002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	103	102	6		
4-Bromofluorobenzene (S)	%.	101	101	5		
Toluene-d8 (S)	%.	100	102	3		

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

QC Batch: OEXT/25382 Analysis Method: EPA 8082
 QC Batch Method: EPA 3550 Analysis Description: 8082 GCS PCB
 Associated Lab Samples: 10270772013, 10270772020

METHOD BLANK: 1708936 Matrix: Solid

Associated Lab Samples: 10270772013, 10270772020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	06/18/14 10:57	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	06/18/14 10:57	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	06/18/14 10:57	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	06/18/14 10:57	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	06/18/14 10:57	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	06/18/14 10:57	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	06/18/14 10:57	
PCB-1262 (Aroclor 1262)	ug/kg	ND	33.0	06/18/14 10:57	
PCB-1268 (Aroclor 1268)	ug/kg	ND	33.0	06/18/14 10:57	
Decachlorobiphenyl (S)	%.	101	55-130	06/18/14 10:57	CL
Tetrachloro-m-xylene (S)	%.	100	50-128	06/18/14 10:57	

LABORATORY CONTROL SAMPLE: 1708937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	642	96	62-125	
PCB-1260 (Aroclor 1260)	ug/kg	667	641	96	61-125	
Decachlorobiphenyl (S)	%.			100	55-130	CL
Tetrachloro-m-xylene (S)	%.			101	50-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1708938 1708939

Parameter	Units	10270769005		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
PCB-1016 (Aroclor 1016)	ug/kg	ND	2030	2030	2030	71200	69300	3500	3410	34-125	3	30	E,M3
PCB-1260 (Aroclor 1260)	ug/kg	ND	2030	2030	2030	37600	34800	1850	1710	30-128	8	30	E,M3
Decachlorobiphenyl (S)	%.							68	71	55-130			CL
Tetrachloro-m-xylene (S)	%.							81	88	50-128			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

QC Batch: OEXT/25381 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3550 Analysis Description: 8270 Solid PAH by SIM MSSV
 Associated Lab Samples: 10270772013, 10270772014, 10270772015, 10270772016, 10270772020

METHOD BLANK: 1708859 Matrix: Solid
 Associated Lab Samples: 10270772013, 10270772014, 10270772015, 10270772016, 10270772020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	10.0	06/17/14 08:48	
Acenaphthylene	ug/kg	ND	10.0	06/17/14 08:48	
Anthracene	ug/kg	ND	10.0	06/17/14 08:48	
Benzo(a)anthracene	ug/kg	ND	10.0	06/17/14 08:48	
Benzo(a)pyrene	ug/kg	ND	10.0	06/17/14 08:48	
Benzo(b)fluoranthene	ug/kg	ND	10.0	06/17/14 08:48	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	06/17/14 08:48	
Benzo(k)fluoranthene	ug/kg	ND	10.0	06/17/14 08:48	
Chrysene	ug/kg	ND	10.0	06/17/14 08:48	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	06/17/14 08:48	
Fluoranthene	ug/kg	ND	10.0	06/17/14 08:48	
Fluorene	ug/kg	ND	10.0	06/17/14 08:48	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	06/17/14 08:48	
Naphthalene	ug/kg	ND	10.0	06/17/14 08:48	
Phenanthrene	ug/kg	ND	10.0	06/17/14 08:48	
Pyrene	ug/kg	ND	10.0	06/17/14 08:48	
2-Fluorobiphenyl (S)	%	83	30-150	06/17/14 08:48	
Terphenyl-d14 (S)	%	81	30-150	06/17/14 08:48	

LABORATORY CONTROL SAMPLE: 1708860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	25.6	77	46-125	
Acenaphthylene	ug/kg	33.3	25.8	77	45-125	
Anthracene	ug/kg	33.3	27.7	83	56-125	
Benzo(a)anthracene	ug/kg	33.3	25.5	76	64-125	
Benzo(a)pyrene	ug/kg	33.3	27.9	84	66-125	
Benzo(b)fluoranthene	ug/kg	33.3	25.0	75	65-125	
Benzo(g,h,i)perylene	ug/kg	33.3	27.1	81	60-125	
Benzo(k)fluoranthene	ug/kg	33.3	28.6	86	60-125	
Chrysene	ug/kg	33.3	28.4	85	60-125	
Dibenz(a,h)anthracene	ug/kg	33.3	25.2	76	59-125	
Fluoranthene	ug/kg	33.3	26.6	80	70-125	
Fluorene	ug/kg	33.3	26.7	80	55-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	25.9	78	60-125	
Naphthalene	ug/kg	33.3	24.8	74	43-125	
Phenanthrene	ug/kg	33.3	27.2	82	60-125	
Pyrene	ug/kg	33.3	28.9	87	67-125	
2-Fluorobiphenyl (S)	%			79	30-150	
Terphenyl-d14 (S)	%			84	30-150	

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Parameter	Units	1708861		1708862		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Acenaphthene	ug/kg	ND	33.6	33.6	30.3	32.1	90	95	30-150	6	30	
Acenaphthylene	ug/kg	13.4	33.6	33.6	42.2	43.1	86	88	30-150	2	30	
Anthracene	ug/kg	12.1	33.6	33.6	42.2	44.8	89	97	30-150	6	30	
Benzo(a)anthracene	ug/kg	36.6	33.6	33.6	64.8	69.7	84	98	30-150	7	30	
Benzo(a)pyrene	ug/kg	55.2	33.6	33.6	77.8	86.5	67	93	30-150	11	30	
Benzo(b)fluoranthene	ug/kg	75.5	33.6	33.6	103	109	83	101	30-150	6	30	
Benzo(g,h,i)perylene	ug/kg	56.8	33.6	33.6	70.1	73.3	40	49	30-150	4	30	
Benzo(k)fluoranthene	ug/kg	33.3	33.6	33.6	55.8	61.9	67	85	30-150	10	30	
Chrysene	ug/kg	51.0	33.6	33.6	69.3	77.5	54	79	30-150	11	30	
Dibenz(a,h)anthracene	ug/kg	11.5	33.6	33.6	29.1	41.6	52	89	30-150	35	30	R1
Fluoranthene	ug/kg	82.7	33.6	33.6	101	112	55	86	30-150	10	30	
Fluorene	ug/kg	ND	33.6	33.6	29.8	33.1	88	98	30-150	10	30	
Indeno(1,2,3-cd)pyrene	ug/kg	43.3	33.6	33.6	62.0	66.2	55	68	30-150	7	30	
Naphthalene	ug/kg	ND	33.6	33.6	24.1	27.0	72	80	30-150	11	30	
Phenanthrene	ug/kg	35.6	33.6	33.6	59.1	71.7	70	107	30-150	19	30	
Pyrene	ug/kg	76.0	33.6	33.6	100	111	72	103	30-150	10	30	
2-Fluorobiphenyl (S)	%						81	88	30-150			
Terphenyl-d14 (S)	%						80	87	30-150			

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

QC Batch: OEXT/25384 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV
 Associated Lab Samples: 10270772011

METHOD BLANK: 1709022 Matrix: Water
 Associated Lab Samples: 10270772011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	06/20/14 12:27	
Acenaphthylene	ug/L	ND	0.040	06/20/14 12:27	
Anthracene	ug/L	ND	0.040	06/20/14 12:27	
Benzo(a)anthracene	ug/L	ND	0.040	06/20/14 12:27	
Benzo(a)pyrene	ug/L	ND	0.040	06/20/14 12:27	
Benzo(b)fluoranthene	ug/L	ND	0.040	06/20/14 12:27	
Benzo(g,h,i)perylene	ug/L	ND	0.040	06/20/14 12:27	
Benzo(k)fluoranthene	ug/L	ND	0.040	06/20/14 12:27	
Chrysene	ug/L	ND	0.040	06/20/14 12:27	
Dibenz(a,h)anthracene	ug/L	ND	0.040	06/20/14 12:27	
Fluoranthene	ug/L	ND	0.040	06/20/14 12:27	
Fluorene	ug/L	ND	0.040	06/20/14 12:27	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	06/20/14 12:27	
Naphthalene	ug/L	ND	0.040	06/20/14 12:27	
Phenanthrene	ug/L	ND	0.040	06/20/14 12:27	
Pyrene	ug/L	ND	0.040	06/20/14 12:27	
2-Fluorobiphenyl (S)	%	70	54-125	06/20/14 12:27	
Terphenyl-d14 (S)	%	82	68-125	06/20/14 12:27	

LABORATORY CONTROL SAMPLE & LCSD: 1709023

1709024

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	1	0.68	0.60	68	60	46-125	12	20	
Acenaphthylene	ug/L	1	0.65	0.57	65	57	45-125	13	20	
Anthracene	ug/L	1	0.78	0.72	78	72	54-125	8	20	
Benzo(a)anthracene	ug/L	1	0.80	0.77	80	77	59-125	4	20	
Benzo(a)pyrene	ug/L	1	0.86	0.84	86	84	58-125	2	20	
Benzo(b)fluoranthene	ug/L	1	0.85	0.83	85	83	61-125	3	20	
Benzo(g,h,i)perylene	ug/L	1	0.86	0.83	86	83	55-125	3	20	
Benzo(k)fluoranthene	ug/L	1	0.86	0.86	86	86	63-125	.2	20	
Chrysene	ug/L	1	0.89	0.86	89	86	59-125	4	20	
Dibenz(a,h)anthracene	ug/L	1	0.80	0.80	80	80	59-125	.7	20	
Fluoranthene	ug/L	1	0.86	0.83	86	83	63-125	3	20	
Fluorene	ug/L	1	0.73	0.65	73	65	52-125	11	20	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.83	0.81	83	81	59-125	3	20	
Naphthalene	ug/L	1	0.65	0.57	65	57	44-125	14	20	
Phenanthrene	ug/L	1	0.81	0.76	81	76	55-125	7	20	
Pyrene	ug/L	1	0.88	0.84	88	84	66-125	4	20	
2-Fluorobiphenyl (S)	%				68	60	54-125			
Terphenyl-d14 (S)	%				87	84	68-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

QC Batch: OEXT/25376 Analysis Method: WI MOD DRO

QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Associated Lab Samples: 10270772011

METHOD BLANK: 1708648

Matrix: Water

Associated Lab Samples: 10270772011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/L	ND	0.10	06/18/14 18:07	
n-Triacontane (S)	%.	68	50-150	06/18/14 18:07	

LABORATORY CONTROL SAMPLE & LCSD: 1708649

1708650

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/L	2	1.7	1.7	85	84	75-115	.9	20	
n-Triacontane (S)	%.				89	91	50-150			

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QUALIFIERS

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1M	Surrogate recovery outside laboratory control limits due to matrix interferences.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D4	Sample was diluted due to the presence of high levels of target analytes.
D5	The sample was re-weighed into a new container because the sample weight in the original container exceeded the method specifications.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
T6	High boiling point hydrocarbons are present in the sample.
T7	Low boiling point hydrocarbons are present in the sample.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2013-PO183-0061 FMR GROSS GIVE

Pace Project No.: 10270772

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10270772013	GP-2 0.5'	EPA 3550	OEXT/25382	EPA 8082	GCSV/13425
10270772020	GP-20 1.5'	EPA 3550	OEXT/25382	EPA 8082	GCSV/13425
10270772012	GP-7 (7')	WI MOD DRO	OEXT/25396	WI MOD DRO	GCSV/13428
10270772013	GP-2 0.5'	WI MOD DRO	OEXT/25396	WI MOD DRO	GCSV/13428
10270772016	GP-2 5'	WI MOD DRO	OEXT/25396	WI MOD DRO	GCSV/13428
10270772019	GP-9 24'	WI MOD DRO	OEXT/25396	WI MOD DRO	GCSV/13428
10270772020	GP-20 1.5'	WI MOD DRO	OEXT/25396	WI MOD DRO	GCSV/13428
10270772011	GP-20 (10-15)	WI MOD DRO	OEXT/25376	WI MOD DRO	GCSV/13432
10270772013	GP-2 0.5'	TPH GRO/PVOC WI ext.	GCV/12218	WI MOD GRO	GCV/12223
10270772020	GP-20 1.5'	TPH GRO/PVOC WI ext.	GCV/12218	WI MOD GRO	GCV/12223
10270772011	GP-20 (10-15)	WI MOD GRO	GCV/12222		
10270772013	GP-2 0.5'	EPA 3050	MPRP/46653	EPA 6010C	ICP/19839
10270772014	GP-2 1.5'	EPA 3050	MPRP/46653	EPA 6010C	ICP/19839
10270772015	GP-2 3'	EPA 3050	MPRP/46653	EPA 6010C	ICP/19839
10270772016	GP-2 5'	EPA 3050	MPRP/46653	EPA 6010C	ICP/19839
10270772017	GP-9 0.5'	EPA 3050	MPRP/46653	EPA 6010C	ICP/19839
10270772018	GP-9 4'	EPA 3050	MPRP/46704	EPA 6010C	ICP/19864
10270772020	GP-20 1.5'	EPA 3050	MPRP/46704	EPA 6010C	ICP/19864
10270772001	GP-1 (10-15)	EPA 3010	MPRP/46676	6010C Met	ICP/19858
10270772002	GP-3 (10-15)	EPA 3010	MPRP/46676	6010C Met	ICP/19858
10270772003	GP-7 (10-15)	EPA 3010	MPRP/46676	6010C Met	ICP/19858
10270772004	GP-11 (10-15)	EPA 3010	MPRP/46676	6010C Met	ICP/19858
10270772005	GP-12 (5-10)	EPA 3010	MPRP/46676	6010C Met	ICP/19858
10270772006	GP-13 (10-15)	EPA 3010	MPRP/46676	6010C Met	ICP/19858
10270772007	GP-14 (10-15)	EPA 3010	MPRP/46676	6010C Met	ICP/19858
10270772008	GP-15 (10-15)	EPA 3010	MPRP/46676	6010C Met	ICP/19858
10270772009	GP-16 (10-15)	EPA 3010	MPRP/46676	6010C Met	ICP/19858
10270772010	GP-17 (10-15)	EPA 3010	MPRP/46676	6010C Met	ICP/19858
10270772011	GP-20 (10-15)	EPA 3010	MPRP/46676	6010C Met	ICP/19858
10270772012	GP-7 (7')	ASTM D2974	MPRP/46639		
10270772013	GP-2 0.5'	ASTM D2974	MPRP/46639		
10270772014	GP-2 1.5'	ASTM D2974	MPRP/46639		
10270772015	GP-2 3'	ASTM D2974	MPRP/46639		
10270772016	GP-2 5'	ASTM D2974	MPRP/46639		
10270772017	GP-9 0.5'	ASTM D2974	MPRP/46639		
10270772018	GP-9 4'	ASTM D2974	MPRP/46639		
10270772019	GP-9 24'	ASTM D2974	MPRP/46639		
10270772020	GP-20 1.5'	ASTM D2974	MPRP/46639		
10270772013	GP-2 0.5'	EPA 3550	OEXT/25381	EPA 8270 by SIM	MSSV/10693
10270772014	GP-2 1.5'	EPA 3550	OEXT/25381	EPA 8270 by SIM	MSSV/10693
10270772015	GP-2 3'	EPA 3550	OEXT/25381	EPA 8270 by SIM	MSSV/10693
10270772016	GP-2 5'	EPA 3550	OEXT/25381	EPA 8270 by SIM	MSSV/10693
10270772020	GP-20 1.5'	EPA 3550	OEXT/25381	EPA 8270 by SIM	MSSV/10693
10270772011	GP-20 (10-15)	EPA 3510	OEXT/25384	EPA 8270 by SIM	MSSV/10711

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2013-PO183-0061 FMR GROSS GIVE
Pace Project No.: 10270772

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10270772012	GP-7 (7')	EPA 5035/5030B	MSV/27510	EPA 8260	MSV/27511
10270772013	GP-2 0.5'	EPA 5035/5030B	MSV/27510	EPA 8260	MSV/27511
10270772014	GP-2 1.5'	EPA 5035/5030B	MSV/27510	EPA 8260	MSV/27511
10270772015	GP-2 3'	EPA 5035/5030B	MSV/27512	EPA 8260	MSV/27513
10270772016	GP-2 5'	EPA 5035/5030B	MSV/27512	EPA 8260	MSV/27513
10270772019	GP-9 24'	EPA 5035/5030B	MSV/27512	EPA 8260	MSV/27513
10270772020	GP-20 1.5'	EPA 5035/5030B	MSV/27512	EPA 8260	MSV/27513
10270772021	TRIP BLANK	EPA 5035/5030B	MSV/27512	EPA 8260	MSV/27513

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2
1823065

Section A Required Client Information:
 Company: The Love Im Group
 Address: 1025 Garrison Circle
Wadena Prairie, MN 55374
 Email To: _____
 Phone: 507-330-3688
 Fax: _____
 Requested Due Date/TAT: Normal

Section B Required Project Information:
 Report To: Karin Piesen
 Copy To: _____
 Purchase Order No.: _____
 Project Name: Mr. Cross Given Me
 Project Number: 2013-P013-0061

Section C Invoice Information:
 Attention: Same
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: Kater Xiong
 Pace Profile #: _____

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____
 Site Location: _____
 STATE: MN

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G=G-RAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Pace Project No. / Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB					
	Section D	MATRIX / CODE	MATRIX CODE (see valid codes to left)	DATE	TIME	DATE	TIME	Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Y/N	
1	GP-1 (10-15)	Drinking Water	WTG	-	-	6/13/14	0905			001
2	GP-3 (10-15)	Water					0910			002
3	GP-7 (10-15)	Waste Water					0915			003
4	GP-11 (10-15)	Product					0920			004
5	GP-12 (5-10)	Soil/Solid					0925			005
6	GP-13 (10-15)	Oil					0930			006
7	GP-14 (10-15)	Wipe					0935			007
8	GP-15 (10-15)	Air					0940			008
9	GP-16 (10-15)	Tissue					0945			009
10	GP-17 (10-15)	Other					1000			010
11	GP-20 (10-15)						1005			011
12	GP-7 (7)						1005			012

ADDITIONAL COMMENTS
* Metals, Lead ICP
Sample(s) Groundwater
need to be lab-filtered

RELINQUISHED BY / AFFILIATION DATE TIME
Brad M. Cordaw 6/13/14 1619

ACCEPTED BY / AFFILIATION DATE TIME
Bob Pace 6/13/14 1619

Temp in °C _____
Received on _____
Custody Sealed Cooler (Y/N) _____
Samples Intact (Y/N) _____

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Brad M. Cordaw
 SIGNATURE of SAMPLER: Brad M. Cordaw
 DATE Signed (MM/DD/YYYY): 06/13/14

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10270772

Section A

Required Client Information:

Company: The Jewel in Jewel
 Address: 10225 Crostoma Circle
Eden Prairie, MN 55344
 Email To: _____
 Phone: _____ Fax: _____
 Requested Due Date/TAT: Normal

Section B

Required Project Information:

Report To: Kevin Pagan
 Copy To: _____
 Purchase Order No.: _____
 Project Name: Mr. Greg Govea (AF)
 Project Number: 2013-PO183-0061

Section C

Invoice Information:

Attention: Same
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: Kabe Xiang
 Pace Profile #: _____

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location
 STATE: MN

Section D

Required Client Information

SAMPLE ID
 (A-Z, 0-9 / .)

Sample IDs MUST BE UNIQUE

Matrix Codes
 MATRIX / CODE
 DW Drinking Water
 WT Waste Water
 P Product
 SL Soil/Solid
 OL Oil
 WP Wipe
 AR Air
 TS Tissue
 OT Other

MATRIX CODE (see valid codes to left)

SAMPLE TYPE (G=GRAB C-COMP)

COLLECTED
 COMPOSITE START DATE TIME
 COMPOSITE END/GRAB DATE TIME

SAMPLE TEMP AT COLLECTION

OF CONTAINERS

Preservatives
 Unpreserved
 H₂SO₄
 HNO₃
 HCl
 NaOH
 Na₂S₂O₃
 Methanol
 Other

Requested Analysis Filtered (Y/N)

Residual Chlorine (Y/N)

Pace Project No. / Lab I.D.

ITEM #	MATRIX CODE	SAMPLE TYPE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
1	GP-2	SLG	6/13/14 1010	-			X		02
2	GP-2		6/13/14 1015				X		014
3	GP-2		1020				X		015
4	GP-2		1025				X		016
5	GP-9		1030				X		017
6	GP-9		1035				X		018
7	GP-9		1040				X		019
8	GP-20		1045				X		020
9									021
10									
11									
12									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on	Sealed Cooler	Custody	Samples Intact
	<u>Brad M C / Jewel in Jewel</u>	<u>6/13/14</u>	<u>1019</u>	<u>EAC Pace</u>	<u>6/13/14</u>	<u>1149</u>	<u>0.60</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>
							<u>12.2</u>				

ORIGINAL

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Brad M. Cordova
 SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY): 06/13/14

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Client Name: The Javelin Group

Project #: WO# : 10270772



Courier: Fed Ex UPS USPS Client
 Commercial Pace Speedee Other: _____
Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Optional:** Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____ **Temp Blank?** Yes No

Thermom. Used: B88A9130516413 B88A912167504 B88A9132521491 **Type of Ice:** Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): 6/12.2 **Cooler Temp Corrected (°C):** 6/12.2 **Biological Tissue Frozen?** Yes No N/A
Temp should be above freezing to 6°C **Correction Factor:** True **Date and Initials of Person Examining Contents:** 6/13/14 AL

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11. <u>JP 6/13/14</u>
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	12. <u>Different Bottle Count</u>
-Includes Date/Time/ID/Analysis Matrix: <u>SL/WT</u>			
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Sample #
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	14.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>042814-3</u>			

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review:

Kelvin King

Date: June 16, 2014

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

June 25, 2014

Kevin Pierson
The Javelin Group
10125 Crosstown Circle
Suite 107
Eden Prairie, MN 55344

RE: Project: 2013-P0183-0061 FMR GROSS-GIVE
Pace Project No.: 10270417

Dear Kevin Pierson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 11, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Denna Mohamed for
Kabor Xiong
kabor.xiong@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #40770

Alabama Certification #40770

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #: Pace

Georgia Certification #: 959

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

Wisconsin Certification #: 999407970

West Virginia Certification #: 382

West Virginia TO-15 Approval

West Virginia DHHR #:9952C

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10270417001	GP-1 5'	Solid	06/11/14 09:00	06/11/14 17:37
10270417002	GP-1 15'	Solid	06/11/14 09:05	06/11/14 17:37
10270417003	GP-3 2'	Solid	06/11/14 09:10	06/11/14 17:37
10270417004	GP-7 1.5'	Solid	06/11/14 09:45	06/11/14 17:37
10270417005	GP-7 3'	Solid	06/11/14 09:50	06/11/14 17:37
10270417006	GP-11 1.5'	Solid	06/11/14 09:15	06/11/14 17:37
10270417007	GP-12 1.5'	Solid	06/11/14 09:55	06/11/14 17:37
10270417008	GP-12 8'	Solid	06/11/14 10:00	06/11/14 17:37
10270417009	GP-13 1.5'	Solid	06/11/14 09:20	06/11/14 17:37
10270417010	GP-14 1.5'	Solid	06/11/14 08:25	06/11/14 17:37
10270417011	GP-15 1.5	Solid	06/11/14 10:05	06/11/14 17:37
10270417012	GP-16 1.5'	Solid	06/11/14 09:25	06/11/14 17:37
10270417013	GP-17 1.5'	Solid	06/11/14 08:30	06/11/14 17:37
10270417014	GP-18 1.5'	Solid	06/11/14 09:30	06/11/14 17:37
10270417015	GP-19 1.5'	Solid	06/11/14 09:35	06/11/14 17:37
10270417016	GP-21 1.5'	Solid	06/11/14 09:40	06/11/14 17:37
10270417017	HA-1 1.5'	Solid	06/11/14 08:00	06/11/14 17:37
10270417018	HA-2 1.5'	Solid	06/11/14 08:05	06/11/14 17:37
10270417019	HA-3 3'	Solid	06/11/14 08:10	06/11/14 17:37
10270417020	HA-4 3'	Solid	06/11/14 08:15	06/11/14 17:37
10270417021	HA-5 3'	Solid	06/11/14 08:20	06/11/14 17:37
10270417022	TRIP BLANK	Solid	06/11/14 00:00	06/11/14 17:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10270417001	GP-1 5'	WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8260	LPM	70
10270417002	GP-1 15'	WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		ASTM D2974	JDL	1
10270417003	GP-3 2'	WI MOD DRO	MT	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8270 by SIM	HBP	19
10270417004	GP-7 1.5'	WI MOD GRO	MS2	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8260	LPM	70
10270417005	GP-7 3'	WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8260	LPM	70
10270417006	GP-11 1.5'	WI MOD DRO	MT	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8270 by SIM	HBP	19
10270417007	GP-12 1.5'	WI MOD DRO	MT	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8270 by SIM	HBP	19
		EPA 8260	LPM	70
10270417008	GP-12 8'	EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8270 by SIM	HBP	19
10270417009	GP-13 1.5'	EPA 8260	LPM	70
		WI MOD DRO	MT	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2013-P0183-0061 FMR GROSS-GIVE
Pace Project No.: 10270417

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10270417010	GP-14 1.5'	EPA 8270 by SIM	HBP	19
		WI MOD DRO	MT	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
10270417011	GP-15 1.5	EPA 8260	LPM	70
		WI MOD DRO	MT	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
10270417012	GP-16 1.5'	EPA 8270 by SIM	HBP	19
		EPA 8260	LPM	70
		EPA 8082	KL1	11
		EPA 6010C	IP	2
10270417013	GP-17 1.5'	ASTM D2974	JDL	1
		EPA 8270 by SIM	HBP	19
		EPA 8260	LPM	70
		EPA 8082	KL1	11
10270417014	GP-18 1.5'	WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
10270417015	GP-19 1.5'	EPA 8270 by SIM	HBP	19
		EPA 8260	LPM	70
		WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
10270417016	GP-21 1.5'	EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8270 by SIM	HBP	19
		EPA 8082	KL1	11
		WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		ASTM D2974	JDL	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10270417017	HA-1 1.5'	EPA 8270 by SIM	HBP	19
		EPA 8260	LPM	70
		EPA 8082	KL1	11
		WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
10270417018	HA-2 1.5'	EPA 8270 by SIM	HBP	19
		EPA 8260	LPM	70
		EPA 8082	KL1	11
		WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
10270417019	HA-3 3'	EPA 8270 by SIM	JLR	19
		EPA 8260	LPM	70
		EPA 8082	KL1	11
		WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
10270417020	HA-4 3'	EPA 8270 by SIM	JLR	19
		EPA 8260	LPM	70
		EPA 8082	KL1	11
		WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
10270417021	HA-5 3'	EPA 8270 by SIM	JLR	19
		EPA 8260	LPM	70
		EPA 8082	KL1	11
		WI MOD DRO	MT	2
		WI MOD GRO	MS2	2
		EPA 6010C	IP	2
		ASTM D2974	JDL	1
		EPA 8270 by SIM	JLR	19
		EPA 8260	LPM	70

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10270417022	TRIP BLANK	EPA 8260	LPM	70

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Method: EPA 8082

Description: 8082 GCS PCB

Client: The Javelin Group

Date: June 25, 2014

General Information:

8 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Method: WI MOD DRO

Description: WIDRO GCS

Client: The Javelin Group

Date: June 25, 2014

General Information:

18 samples were analyzed for WI MOD DRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/25375

S5: Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

- GP-3 2' (Lab ID: 10270417003)
- n-Triacontane (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/25375

T6: High boiling point hydrocarbons are present in the sample.

- GP-1 5' (Lab ID: 10270417001)
 - Diesel Range Organics
- GP-11 1.5' (Lab ID: 10270417006)
 - Diesel Range Organics
- GP-12 1.5' (Lab ID: 10270417007)
 - Diesel Range Organics

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Method: WI MOD DRO

Description: WIDRO GCS

Client: The Javelin Group

Date: June 25, 2014

Analyte Comments:

QC Batch: OEXT/25375

T6: High boiling point hydrocarbons are present in the sample.

- GP-13 1.5' (Lab ID: 10270417009)
 - Diesel Range Organics
- GP-14 1.5' (Lab ID: 10270417010)
 - Diesel Range Organics
- GP-15 1.5' (Lab ID: 10270417011)
 - Diesel Range Organics
- GP-17 1.5' (Lab ID: 10270417013)
 - Diesel Range Organics
- GP-18 1.5' (Lab ID: 10270417014)
 - Diesel Range Organics
- GP-19 1.5' (Lab ID: 10270417015)
 - Diesel Range Organics
- GP-21 1.5' (Lab ID: 10270417016)
 - Diesel Range Organics
- GP-3 2' (Lab ID: 10270417003)
 - Diesel Range Organics
- GP-7 3' (Lab ID: 10270417005)
 - Diesel Range Organics
- HA-2 1.5' (Lab ID: 10270417018)
 - Diesel Range Organics

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Method: WI MOD GRO

Description: WIGRO GCV

Client: The Javelin Group

Date: June 25, 2014

General Information:

13 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Method: EPA 6010C

Description: 6010C MET ICP

Client: The Javelin Group

Date: June 25, 2014

General Information:

19 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/46600

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10270417001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1706979)
 - Lead
- MSD (Lab ID: 1706980)
 - Lead

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Method: EPA 8270 by SIM

Description: 8270 MSSV PAH by SIM

Client: The Javelin Group

Date: June 25, 2014

General Information:

16 samples were analyzed for EPA 8270 by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

QC Batch: OEXT/25363

P3: Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.

- GP-11 1.5' (Lab ID: 10270417006)
- GP-15 1.5 (Lab ID: 10270417011)
- GP-16 1.5' (Lab ID: 10270417012)
- GP-18 1.5' (Lab ID: 10270417014)

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/25363

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10269699001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 1707296)
 - Fluoranthene
 - Pyrene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Method: EPA 8270 by SIM

Description: 8270 MSSV PAH by SIM

Client: The Javelin Group

Date: June 25, 2014

QC Batch: OEXT/25363

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10269699001

R1: RPD value was outside control limits.

- MSD (Lab ID: 1707296)
 - Phenanthrene

Additional Comments:

Analyte Comments:

QC Batch: OEXT/25363

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-11 1.5' (Lab ID: 10270417006)
 - 2-Fluorobiphenyl (S)
- GP-18 1.5' (Lab ID: 10270417014)
 - 2-Fluorobiphenyl (S)

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PROJECT NARRATIVE

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Method: EPA 8260

Description: 8260 MSV 5030 Med Level

Client: The Javelin Group

Date: June 25, 2014

General Information:

17 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/27472

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10270417013

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1710927)
 - 1,1,1-Trichloroethane
 - Trichloroethene

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-1 5' **Lab ID: 10270417001** Collected: 06/11/14 09:00 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	73.6	mg/kg	10	1.5	1	06/16/14 09:30	06/17/14 09:06		T6
Surrogates									
n-Triacontane (S)	100	%	50-150		1	06/16/14 09:30	06/17/14 09:06	638-68-6	
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	11.1	5.6	1	06/18/14 00:00	06/20/14 10:23		
Surrogates									
a,a,a-Trifluorotoluene (S)	111	%	80-125		1	06/18/14 00:00	06/20/14 10:23	98-08-8	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	1.1	0.31	1	06/13/14 15:05	06/14/14 00:29	7440-38-2	
Lead	78.6	mg/kg	1.1	0.080	1	06/13/14 15:05	06/14/14 00:29	7439-92-1	M1
Dry Weight Analytical Method: ASTM D2974									
Percent Moisture	11.7	%	0.10	0.10	1		06/12/14 00:00		
8260 MSV 5030 Med Level Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1140	571	1	06/18/14 14:44	06/18/14 20:00	67-64-1	
Allyl chloride	ND	ug/kg	228	7.5	1	06/18/14 14:44	06/18/14 20:00	107-05-1	
Benzene	52.8	ug/kg	22.8	11.4	1	06/18/14 14:44	06/18/14 20:00	71-43-2	
Bromobenzene	ND	ug/kg	57.1	9.9	1	06/18/14 14:44	06/18/14 20:00	108-86-1	
Bromochloromethane	ND	ug/kg	57.1	7.8	1	06/18/14 14:44	06/18/14 20:00	74-97-5	
Bromodichloromethane	ND	ug/kg	57.1	10.2	1	06/18/14 14:44	06/18/14 20:00	75-27-4	
Bromoform	ND	ug/kg	228	114	1	06/18/14 14:44	06/18/14 20:00	75-25-2	
Bromomethane	ND	ug/kg	571	285	1	06/18/14 14:44	06/18/14 20:00	74-83-9	
2-Butanone (MEK)	ND	ug/kg	285	143	1	06/18/14 14:44	06/18/14 20:00	78-93-3	
n-Butylbenzene	ND	ug/kg	57.1	6.9	1	06/18/14 14:44	06/18/14 20:00	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.1	6.7	1	06/18/14 14:44	06/18/14 20:00	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.1	9.2	1	06/18/14 14:44	06/18/14 20:00	56-23-5	
Chlorobenzene	ND	ug/kg	57.1	8.8	1	06/18/14 14:44	06/18/14 20:00	108-90-7	
Chloroethane	ND	ug/kg	571	14.4	1	06/18/14 14:44	06/18/14 20:00	75-00-3	
Chloroform	ND	ug/kg	57.1	8.7	1	06/18/14 14:44	06/18/14 20:00	67-66-3	
Chloromethane	ND	ug/kg	228	10.4	1	06/18/14 14:44	06/18/14 20:00	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	571	30.2	1	06/18/14 14:44	06/18/14 20:00	96-12-8	
Dibromochloromethane	ND	ug/kg	57.1	12.3	1	06/18/14 14:44	06/18/14 20:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.1	7.0	1	06/18/14 14:44	06/18/14 20:00	106-93-4	
Dibromomethane	ND	ug/kg	57.1	16.0	1	06/18/14 14:44	06/18/14 20:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	228	26.4	1	06/18/14 14:44	06/18/14 20:00	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.1	8.0	1	06/18/14 14:44	06/18/14 20:00	75-34-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-1 5' **Lab ID: 10270417001** Collected: 06/11/14 09:00 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2-Dichloroethane	ND	ug/kg	57.1	13.5	1	06/18/14 14:44	06/18/14 20:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.1	11.4	1	06/18/14 14:44	06/18/14 20:00	75-35-4	
cis-1,2-Dichloroethene	145	ug/kg	57.1	11.6	1	06/18/14 14:44	06/18/14 20:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.1	11.3	1	06/18/14 14:44	06/18/14 20:00	156-60-5	
Dichlorofluoromethane	ND	ug/kg	571	285	1	06/18/14 14:44	06/18/14 20:00	75-43-4	
1,2-Dichloropropane	ND	ug/kg	57.1	9.2	1	06/18/14 14:44	06/18/14 20:00	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	142-28-9	
2,2-Dichloropropane	ND	ug/kg	228	7.6	1	06/18/14 14:44	06/18/14 20:00	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.1	9.3	1	06/18/14 14:44	06/18/14 20:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.1	7.2	1	06/18/14 14:44	06/18/14 20:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	57.1	8.0	1	06/18/14 14:44	06/18/14 20:00	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	228	12.1	1	06/18/14 14:44	06/18/14 20:00	60-29-7	
Ethylbenzene	143	ug/kg	57.1	7.2	1	06/18/14 14:44	06/18/14 20:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	285	143	1	06/18/14 14:44	06/18/14 20:00	87-68-3	
Isopropylbenzene (Cumene)	69.6	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.1	8.3	1	06/18/14 14:44	06/18/14 20:00	99-87-6	
Methylene Chloride	ND	ug/kg	228	114	1	06/18/14 14:44	06/18/14 20:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	285	143	1	06/18/14 14:44	06/18/14 20:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	1634-04-4	
Naphthalene	296	ug/kg	228	114	1	06/18/14 14:44	06/18/14 20:00	91-20-3	
n-Propylbenzene	98.1	ug/kg	57.1	6.9	1	06/18/14 14:44	06/18/14 20:00	103-65-1	
Styrene	ND	ug/kg	57.1	8.5	1	06/18/14 14:44	06/18/14 20:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.1	7.8	1	06/18/14 14:44	06/18/14 20:00	79-34-5	
Tetrachloroethene	ND	ug/kg	57.1	20.6	1	06/18/14 14:44	06/18/14 20:00	127-18-4	
Tetrahydrofuran	ND	ug/kg	2280	72.9	1	06/18/14 14:44	06/18/14 20:00	109-99-9	
Toluene	535	ug/kg	57.1	7.8	1	06/18/14 14:44	06/18/14 20:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.1	13.6	1	06/18/14 14:44	06/18/14 20:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.1	10.4	1	06/18/14 14:44	06/18/14 20:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.1	9.7	1	06/18/14 14:44	06/18/14 20:00	79-00-5	
Trichloroethene	1070	ug/kg	57.1	7.1	1	06/18/14 14:44	06/18/14 20:00	79-01-6	
Trichlorofluoromethane	ND	ug/kg	228	10.2	1	06/18/14 14:44	06/18/14 20:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	228	7.6	1	06/18/14 14:44	06/18/14 20:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	228	23.9	1	06/18/14 14:44	06/18/14 20:00	76-13-1	
1,2,4-Trimethylbenzene	134	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.1	28.5	1	06/18/14 14:44	06/18/14 20:00	108-67-8	
Vinyl chloride	ND	ug/kg	22.8	8.5	1	06/18/14 14:44	06/18/14 20:00	75-01-4	
Xylene (Total)	1280	ug/kg	171	22.4	1	06/18/14 14:44	06/18/14 20:00	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100 %.		74-125		1	06/18/14 14:44	06/18/14 20:00	17060-07-0	
Toluene-d8 (S)	99 %.		75-125		1	06/18/14 14:44	06/18/14 20:00	2037-26-5	
4-Bromofluorobenzene (S)	104 %.		75-125		1	06/18/14 14:44	06/18/14 20:00	460-00-4	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-1 15' **Lab ID: 10270417002** Collected: 06/11/14 09:05 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	ND	mg/kg	8.5	1.3	1	06/16/14 09:30	06/17/14 10:10		
Surrogates									
n-Triacontane (S)	82	%	50-150		1	06/16/14 09:30	06/17/14 10:10	638-68-6	
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	10.7	5.3	1	06/19/14 00:00	06/20/14 17:11		
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-125		1	06/19/14 00:00	06/20/14 17:11	98-08-8	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	7.1	%	0.10	0.10	1		06/12/14 00:00		

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE
Pace Project No.: 10270417

Sample: GP-3 2' Lab ID: 10270417003 Collected: 06/11/14 09:10 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	953	mg/kg	101	15.2	1	06/16/14 09:30	06/17/14 08:01		T6
Surrogates									
n-Triacontane (S)	163	%	50-150		1	06/16/14 09:30	06/17/14 08:01	638-68-6	S5
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	5.2	mg/kg	0.87	0.25	1	06/13/14 15:05	06/14/14 00:57	7440-38-2	
Lead	1480	mg/kg	0.87	0.064	1	06/13/14 15:05	06/14/14 00:57	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	7.1	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	83-32-9	
Acenaphthylene	ND	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	208-96-8	
Anthracene	ND	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	120-12-7	
Benzo(a)anthracene	9860	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	56-55-3	
Benzo(a)pyrene	10300	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	50-32-8	
Benzo(b)fluoranthene	12700	ug/kg	2150	60.3	20	06/13/14 10:47	06/18/14 21:43	205-99-2	
Benzo(g,h,i)perylene	8710	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	191-24-2	
Benzo(k)fluoranthene	5350	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	207-08-9	
Chrysene	11700	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	53-70-3	
Fluoranthene	21000	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	206-44-0	
Fluorene	ND	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	86-73-7	
Indeno(1,2,3-cd)pyrene	5790	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	193-39-5	
Naphthalene	ND	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	91-20-3	
Phenanthrene	12900	ug/kg	2150	1080	20	06/13/14 10:47	06/18/14 21:43	85-01-8	
Pyrene	19900	ug/kg	2150	49.5	20	06/13/14 10:47	06/18/14 21:43	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	13700	ug/kg	2150		20	06/13/14 10:47	06/18/14 21:43		
Surrogates									
2-Fluorobiphenyl (S)	85	%	30-150		20	06/13/14 10:47	06/18/14 21:43	321-60-8	
Terphenyl-d14 (S)	114	%	30-150		20	06/13/14 10:47	06/18/14 21:43	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-7 1.5' **Lab ID: 10270417004** Collected: 06/11/14 09:45 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	277	mg/kg	53.0	26.5	5	06/19/14 00:00	06/24/14 06:26		
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-125		5	06/19/14 00:00	06/24/14 06:26	98-08-8	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	0.97	0.28	1	06/13/14 15:05	06/14/14 01:03	7440-38-2	
Lead	56.9	mg/kg	0.97	0.072	1	06/13/14 15:05	06/14/14 01:03	7439-92-1	
Dry Weight Analytical Method: ASTM D2974									
Percent Moisture	4.7	%	0.10	0.10	1		06/12/14 00:00		
8260 MSV 5030 Med Level Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1070	534	1	06/18/14 14:44	06/18/14 20:18	67-64-1	
Allyl chloride	ND	ug/kg	214	7.0	1	06/18/14 14:44	06/18/14 20:18	107-05-1	
Benzene	ND	ug/kg	21.4	10.7	1	06/18/14 14:44	06/18/14 20:18	71-43-2	
Bromobenzene	ND	ug/kg	53.4	9.3	1	06/18/14 14:44	06/18/14 20:18	108-86-1	
Bromochloromethane	ND	ug/kg	53.4	7.3	1	06/18/14 14:44	06/18/14 20:18	74-97-5	
Bromodichloromethane	ND	ug/kg	53.4	9.5	1	06/18/14 14:44	06/18/14 20:18	75-27-4	
Bromoform	ND	ug/kg	214	107	1	06/18/14 14:44	06/18/14 20:18	75-25-2	
Bromomethane	ND	ug/kg	534	267	1	06/18/14 14:44	06/18/14 20:18	74-83-9	
2-Butanone (MEK)	ND	ug/kg	267	134	1	06/18/14 14:44	06/18/14 20:18	78-93-3	
n-Butylbenzene	277	ug/kg	53.4	6.5	1	06/18/14 14:44	06/18/14 20:18	104-51-8	
sec-Butylbenzene	76.4	ug/kg	53.4	6.3	1	06/18/14 14:44	06/18/14 20:18	135-98-8	
tert-Butylbenzene	ND	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	98-06-6	
Carbon tetrachloride	ND	ug/kg	53.4	8.6	1	06/18/14 14:44	06/18/14 20:18	56-23-5	
Chlorobenzene	ND	ug/kg	53.4	8.2	1	06/18/14 14:44	06/18/14 20:18	108-90-7	
Chloroethane	ND	ug/kg	534	13.5	1	06/18/14 14:44	06/18/14 20:18	75-00-3	
Chloroform	ND	ug/kg	53.4	8.1	1	06/18/14 14:44	06/18/14 20:18	67-66-3	
Chloromethane	ND	ug/kg	214	9.7	1	06/18/14 14:44	06/18/14 20:18	74-87-3	
2-Chlorotoluene	ND	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	95-49-8	
4-Chlorotoluene	ND	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	534	28.3	1	06/18/14 14:44	06/18/14 20:18	96-12-8	
Dibromochloromethane	ND	ug/kg	53.4	11.5	1	06/18/14 14:44	06/18/14 20:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	53.4	6.6	1	06/18/14 14:44	06/18/14 20:18	106-93-4	
Dibromomethane	ND	ug/kg	53.4	15.0	1	06/18/14 14:44	06/18/14 20:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	214	24.7	1	06/18/14 14:44	06/18/14 20:18	75-71-8	
1,1-Dichloroethane	ND	ug/kg	53.4	7.5	1	06/18/14 14:44	06/18/14 20:18	75-34-3	
1,2-Dichloroethane	ND	ug/kg	53.4	12.6	1	06/18/14 14:44	06/18/14 20:18	107-06-2	
1,1-Dichloroethene	ND	ug/kg	53.4	10.7	1	06/18/14 14:44	06/18/14 20:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	53.4	10.9	1	06/18/14 14:44	06/18/14 20:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	53.4	10.6	1	06/18/14 14:44	06/18/14 20:18	156-60-5	
Dichlorofluoromethane	ND	ug/kg	534	267	1	06/18/14 14:44	06/18/14 20:18	75-43-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-7 1.5' **Lab ID: 10270417004** Collected: 06/11/14 09:45 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2-Dichloropropane	ND	ug/kg	53.4	8.6	1	06/18/14 14:44	06/18/14 20:18	78-87-5	
1,3-Dichloropropane	ND	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	142-28-9	
2,2-Dichloropropane	ND	ug/kg	214	7.1	1	06/18/14 14:44	06/18/14 20:18	594-20-7	
1,1-Dichloropropene	ND	ug/kg	53.4	8.7	1	06/18/14 14:44	06/18/14 20:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	53.4	6.7	1	06/18/14 14:44	06/18/14 20:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	53.4	7.5	1	06/18/14 14:44	06/18/14 20:18	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	214	11.3	1	06/18/14 14:44	06/18/14 20:18	60-29-7	
Ethylbenzene	ND	ug/kg	53.4	6.7	1	06/18/14 14:44	06/18/14 20:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	267	134	1	06/18/14 14:44	06/18/14 20:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	98-82-8	
p-Isopropyltoluene	855	ug/kg	53.4	7.7	1	06/18/14 14:44	06/18/14 20:18	99-87-6	
Methylene Chloride	ND	ug/kg	214	107	1	06/18/14 14:44	06/18/14 20:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	267	134	1	06/18/14 14:44	06/18/14 20:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	1634-04-4	
Naphthalene	2050	ug/kg	214	107	1	06/18/14 14:44	06/18/14 20:18	91-20-3	
n-Propylbenzene	ND	ug/kg	53.4	6.5	1	06/18/14 14:44	06/18/14 20:18	103-65-1	
Styrene	ND	ug/kg	53.4	8.0	1	06/18/14 14:44	06/18/14 20:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	53.4	7.3	1	06/18/14 14:44	06/18/14 20:18	79-34-5	
Tetrachloroethene	ND	ug/kg	53.4	19.3	1	06/18/14 14:44	06/18/14 20:18	127-18-4	
Tetrahydrofuran	ND	ug/kg	2140	68.3	1	06/18/14 14:44	06/18/14 20:18	109-99-9	
Toluene	ND	ug/kg	53.4	7.3	1	06/18/14 14:44	06/18/14 20:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	53.4	12.7	1	06/18/14 14:44	06/18/14 20:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	53.4	9.7	1	06/18/14 14:44	06/18/14 20:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	53.4	9.0	1	06/18/14 14:44	06/18/14 20:18	79-00-5	
Trichloroethene	ND	ug/kg	53.4	6.6	1	06/18/14 14:44	06/18/14 20:18	79-01-6	
Trichlorofluoromethane	ND	ug/kg	214	9.5	1	06/18/14 14:44	06/18/14 20:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	214	7.1	1	06/18/14 14:44	06/18/14 20:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	214	22.3	1	06/18/14 14:44	06/18/14 20:18	76-13-1	
1,2,4-Trimethylbenzene	689	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	53.4	26.7	1	06/18/14 14:44	06/18/14 20:18	108-67-8	
Vinyl chloride	ND	ug/kg	21.4	7.9	1	06/18/14 14:44	06/18/14 20:18	75-01-4	
Xylene (Total)	ND	ug/kg	160	21.0	1	06/18/14 14:44	06/18/14 20:18	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102 %.		74-125		1	06/18/14 14:44	06/18/14 20:18	17060-07-0	
Toluene-d8 (S)	97 %.		75-125		1	06/18/14 14:44	06/18/14 20:18	2037-26-5	
4-Bromofluorobenzene (S)	108 %.		75-125		1	06/18/14 14:44	06/18/14 20:18	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-7 3' **Lab ID: 10270417005** Collected: 06/11/14 09:50 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	139	mg/kg	7.3	1.1	1	06/16/14 09:30	06/17/14 08:08		T6
Surrogates									
n-Triacontane (S)	101	%	50-150		1	06/16/14 09:30	06/17/14 08:08	638-68-6	
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	10.7	5.4	1	06/19/14 00:00	06/20/14 17:30		
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-125		1	06/19/14 00:00	06/20/14 17:30	98-08-8	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	2.2	mg/kg	0.75	0.22	1	06/13/14 15:05	06/14/14 01:18	7440-38-2	
Lead	101	mg/kg	0.75	0.055	1	06/13/14 15:05	06/14/14 01:18	7439-92-1	
Dry Weight Analytical Method: ASTM D2974									
Percent Moisture	7.5	%	0.10	0.10	1		06/12/14 00:00		
8260 MSV 5030 Med Level Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1050	527	1	06/18/14 14:44	06/18/14 23:51	67-64-1	
Allyl chloride	ND	ug/kg	211	6.9	1	06/18/14 14:44	06/18/14 23:51	107-05-1	
Benzene	ND	ug/kg	21.1	10.5	1	06/18/14 14:44	06/18/14 23:51	71-43-2	
Bromobenzene	ND	ug/kg	52.7	9.1	1	06/18/14 14:44	06/18/14 23:51	108-86-1	
Bromochloromethane	ND	ug/kg	52.7	7.2	1	06/18/14 14:44	06/18/14 23:51	74-97-5	
Bromodichloromethane	ND	ug/kg	52.7	9.4	1	06/18/14 14:44	06/18/14 23:51	75-27-4	
Bromoform	ND	ug/kg	211	105	1	06/18/14 14:44	06/18/14 23:51	75-25-2	
Bromomethane	ND	ug/kg	527	263	1	06/18/14 14:44	06/18/14 23:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	263	132	1	06/18/14 14:44	06/18/14 23:51	78-93-3	
n-Butylbenzene	ND	ug/kg	52.7	6.4	1	06/18/14 14:44	06/18/14 23:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	52.7	6.2	1	06/18/14 14:44	06/18/14 23:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	98-06-6	
Carbon tetrachloride	ND	ug/kg	52.7	8.5	1	06/18/14 14:44	06/18/14 23:51	56-23-5	
Chlorobenzene	ND	ug/kg	52.7	8.1	1	06/18/14 14:44	06/18/14 23:51	108-90-7	
Chloroethane	ND	ug/kg	527	13.3	1	06/18/14 14:44	06/18/14 23:51	75-00-3	
Chloroform	ND	ug/kg	52.7	8.0	1	06/18/14 14:44	06/18/14 23:51	67-66-3	
Chloromethane	ND	ug/kg	211	9.6	1	06/18/14 14:44	06/18/14 23:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	527	27.9	1	06/18/14 14:44	06/18/14 23:51	96-12-8	
Dibromochloromethane	ND	ug/kg	52.7	11.4	1	06/18/14 14:44	06/18/14 23:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	52.7	6.5	1	06/18/14 14:44	06/18/14 23:51	106-93-4	
Dibromomethane	ND	ug/kg	52.7	14.8	1	06/18/14 14:44	06/18/14 23:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	211	24.3	1	06/18/14 14:44	06/18/14 23:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	52.7	7.4	1	06/18/14 14:44	06/18/14 23:51	75-34-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-7 3' **Lab ID: 10270417005** Collected: 06/11/14 09:50 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2-Dichloroethane	ND	ug/kg	52.7	12.4	1	06/18/14 14:44	06/18/14 23:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	52.7	10.5	1	06/18/14 14:44	06/18/14 23:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	52.7	10.7	1	06/18/14 14:44	06/18/14 23:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	52.7	10.4	1	06/18/14 14:44	06/18/14 23:51	156-60-5	
Dichlorofluoromethane	ND	ug/kg	527	263	1	06/18/14 14:44	06/18/14 23:51	75-43-4	
1,2-Dichloropropane	ND	ug/kg	52.7	8.5	1	06/18/14 14:44	06/18/14 23:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	211	7.0	1	06/18/14 14:44	06/18/14 23:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	52.7	8.6	1	06/18/14 14:44	06/18/14 23:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	52.7	6.6	1	06/18/14 14:44	06/18/14 23:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	52.7	7.4	1	06/18/14 14:44	06/18/14 23:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	211	11.2	1	06/18/14 14:44	06/18/14 23:51	60-29-7	
Ethylbenzene	ND	ug/kg	52.7	6.6	1	06/18/14 14:44	06/18/14 23:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	263	132	1	06/18/14 14:44	06/18/14 23:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	52.7	7.6	1	06/18/14 14:44	06/18/14 23:51	99-87-6	
Methylene Chloride	ND	ug/kg	211	105	1	06/18/14 14:44	06/18/14 23:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	263	132	1	06/18/14 14:44	06/18/14 23:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	1634-04-4	
Naphthalene	ND	ug/kg	211	105	1	06/18/14 14:44	06/18/14 23:51	91-20-3	
n-Propylbenzene	ND	ug/kg	52.7	6.4	1	06/18/14 14:44	06/18/14 23:51	103-65-1	
Styrene	ND	ug/kg	52.7	7.9	1	06/18/14 14:44	06/18/14 23:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.7	7.2	1	06/18/14 14:44	06/18/14 23:51	79-34-5	
Tetrachloroethene	ND	ug/kg	52.7	19.0	1	06/18/14 14:44	06/18/14 23:51	127-18-4	
Tetrahydrofuran	ND	ug/kg	2110	67.3	1	06/18/14 14:44	06/18/14 23:51	109-99-9	
Toluene	ND	ug/kg	52.7	7.2	1	06/18/14 14:44	06/18/14 23:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	52.7	12.5	1	06/18/14 14:44	06/18/14 23:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	52.7	9.6	1	06/18/14 14:44	06/18/14 23:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	52.7	8.9	1	06/18/14 14:44	06/18/14 23:51	79-00-5	
Trichloroethene	ND	ug/kg	52.7	6.6	1	06/18/14 14:44	06/18/14 23:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	211	9.4	1	06/18/14 14:44	06/18/14 23:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	211	7.0	1	06/18/14 14:44	06/18/14 23:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	211	22.0	1	06/18/14 14:44	06/18/14 23:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	52.7	26.3	1	06/18/14 14:44	06/18/14 23:51	108-67-8	
Vinyl chloride	ND	ug/kg	21.1	7.8	1	06/18/14 14:44	06/18/14 23:51	75-01-4	
Xylene (Total)	ND	ug/kg	158	20.7	1	06/18/14 14:44	06/18/14 23:51	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100 %.		74-125		1	06/18/14 14:44	06/18/14 23:51	17060-07-0	
Toluene-d8 (S)	97 %.		75-125		1	06/18/14 14:44	06/18/14 23:51	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		75-125		1	06/18/14 14:44	06/18/14 23:51	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-11 1.5' **Lab ID:** 10270417006 Collected: 06/11/14 09:15 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	52.8	mg/kg	10.1	1.5	1	06/16/14 09:30	06/17/14 08:23		T6
Surrogates									
n-Triacontane (S)	84	%	50-150		1	06/16/14 09:30	06/17/14 08:23	638-68-6	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	0.89	0.26	1	06/13/14 15:05	06/14/14 01:24	7440-38-2	
Lead	331	mg/kg	0.89	0.066	1	06/13/14 15:05	06/14/14 01:24	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	9.7	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	83-32-9	
Acenaphthylene	ND	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	208-96-8	
Anthracene	132	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	120-12-7	
Benzo(a)anthracene	424	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	56-55-3	
Benzo(a)pyrene	585	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	50-32-8	
Benzo(b)fluoranthene	557	ug/kg	110	3.1	2	06/13/14 10:47	06/19/14 15:18	205-99-2	
Benzo(g,h,i)perylene	413	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	191-24-2	
Benzo(k)fluoranthene	181	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	207-08-9	
Chrysene	624	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	218-01-9	
Dibenz(a,h)anthracene	116	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	53-70-3	
Fluoranthene	765	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	206-44-0	
Fluorene	ND	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	86-73-7	
Indeno(1,2,3-cd)pyrene	263	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	193-39-5	
Naphthalene	ND	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	91-20-3	
Phenanthrene	448	ug/kg	110	55.2	2	06/13/14 10:47	06/19/14 15:18	85-01-8	
Pyrene	928	ug/kg	110	2.5	2	06/13/14 10:47	06/19/14 15:18	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	799	ug/kg	110		2	06/13/14 10:47	06/19/14 15:18		
Surrogates									
2-Fluorobiphenyl (S)	87	%	30-150		2	06/13/14 10:47	06/19/14 15:18	321-60-8	D3,P3
Terphenyl-d14 (S)	90	%	30-150		2	06/13/14 10:47	06/19/14 15:18	1718-51-0	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-12 1.5' **Lab ID: 10270417007** Collected: 06/11/14 09:55 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	38.9	mg/kg	9.8	1.5	1	06/16/14 09:30	06/17/14 08:30		T6
Surrogates									
n-Triacontane (S)	82	%	50-150		1	06/16/14 09:30	06/17/14 08:30	638-68-6	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	3.8	mg/kg	0.78	0.23	1	06/13/14 15:05	06/14/14 01:30	7440-38-2	
Lead	490	mg/kg	0.78	0.058	1	06/13/14 15:05	06/14/14 01:30	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	8.7	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	83-32-9	
Acenaphthylene	ND	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	208-96-8	
Anthracene	554	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	120-12-7	
Benzo(a)anthracene	1430	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	56-55-3	
Benzo(a)pyrene	1590	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	50-32-8	
Benzo(b)fluoranthene	1940	ug/kg	219	6.1	20	06/13/14 10:47	06/18/14 22:29	205-99-2	
Benzo(g,h,i)perylene	1070	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	191-24-2	
Benzo(k)fluoranthene	754	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	207-08-9	
Chrysene	1590	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	218-01-9	
Dibenz(a,h)anthracene	281	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	53-70-3	
Fluoranthene	2770	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	206-44-0	
Fluorene	ND	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	86-73-7	
Indeno(1,2,3-cd)pyrene	887	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	193-39-5	
Naphthalene	ND	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	91-20-3	
Phenanthrene	1820	ug/kg	219	109	20	06/13/14 10:47	06/18/14 22:29	85-01-8	
Pyrene	2940	ug/kg	219	5.0	20	06/13/14 10:47	06/18/14 22:29	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	2270	ug/kg	219		20	06/13/14 10:47	06/18/14 22:29		
Surrogates									
2-Fluorobiphenyl (S)	100	%	30-150		20	06/13/14 10:47	06/18/14 22:29	321-60-8	
Terphenyl-d14 (S)	104	%	30-150		20	06/13/14 10:47	06/18/14 22:29	1718-51-0	
8260 MSV 5030 Med Level									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1100	552	1	06/18/14 14:44	06/19/14 00:09	67-64-1	
Allyl chloride	ND	ug/kg	221	7.2	1	06/18/14 14:44	06/19/14 00:09	107-05-1	
Benzene	ND	ug/kg	22.1	11.0	1	06/18/14 14:44	06/19/14 00:09	71-43-2	
Bromobenzene	ND	ug/kg	55.2	9.6	1	06/18/14 14:44	06/19/14 00:09	108-86-1	
Bromochloromethane	ND	ug/kg	55.2	7.5	1	06/18/14 14:44	06/19/14 00:09	74-97-5	
Bromodichloromethane	ND	ug/kg	55.2	9.8	1	06/18/14 14:44	06/19/14 00:09	75-27-4	
Bromoform	ND	ug/kg	221	110	1	06/18/14 14:44	06/19/14 00:09	75-25-2	
Bromomethane	ND	ug/kg	552	276	1	06/18/14 14:44	06/19/14 00:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	276	138	1	06/18/14 14:44	06/19/14 00:09	78-93-3	
n-Butylbenzene	ND	ug/kg	55.2	6.7	1	06/18/14 14:44	06/19/14 00:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	55.2	6.5	1	06/18/14 14:44	06/19/14 00:09	135-98-8	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-12 1.5' Lab ID: 10270417007 Collected: 06/11/14 09:55 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
tert-Butylbenzene	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	98-06-6	
Carbon tetrachloride	ND	ug/kg	55.2	8.9	1	06/18/14 14:44	06/19/14 00:09	56-23-5	
Chlorobenzene	ND	ug/kg	55.2	8.5	1	06/18/14 14:44	06/19/14 00:09	108-90-7	
Chloroethane	ND	ug/kg	552	13.9	1	06/18/14 14:44	06/19/14 00:09	75-00-3	
Chloroform	ND	ug/kg	55.2	8.4	1	06/18/14 14:44	06/19/14 00:09	67-66-3	
Chloromethane	ND	ug/kg	221	10.1	1	06/18/14 14:44	06/19/14 00:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	552	29.3	1	06/18/14 14:44	06/19/14 00:09	96-12-8	
Dibromochloromethane	ND	ug/kg	55.2	11.9	1	06/18/14 14:44	06/19/14 00:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	55.2	6.8	1	06/18/14 14:44	06/19/14 00:09	106-93-4	
Dibromomethane	ND	ug/kg	55.2	15.5	1	06/18/14 14:44	06/19/14 00:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	221	25.5	1	06/18/14 14:44	06/19/14 00:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	55.2	7.7	1	06/18/14 14:44	06/19/14 00:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	55.2	13.0	1	06/18/14 14:44	06/19/14 00:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	55.2	11.0	1	06/18/14 14:44	06/19/14 00:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	55.2	11.3	1	06/18/14 14:44	06/19/14 00:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	55.2	11.0	1	06/18/14 14:44	06/19/14 00:09	156-60-5	
Dichlorofluoromethane	ND	ug/kg	552	276	1	06/18/14 14:44	06/19/14 00:09	75-43-4	
1,2-Dichloropropane	ND	ug/kg	55.2	8.9	1	06/18/14 14:44	06/19/14 00:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	221	7.4	1	06/18/14 14:44	06/19/14 00:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	55.2	9.0	1	06/18/14 14:44	06/19/14 00:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	55.2	6.9	1	06/18/14 14:44	06/19/14 00:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	55.2	7.8	1	06/18/14 14:44	06/19/14 00:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	221	11.7	1	06/18/14 14:44	06/19/14 00:09	60-29-7	
Ethylbenzene	ND	ug/kg	55.2	6.9	1	06/18/14 14:44	06/19/14 00:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	276	138	1	06/18/14 14:44	06/19/14 00:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	55.2	8.0	1	06/18/14 14:44	06/19/14 00:09	99-87-6	
Methylene Chloride	ND	ug/kg	221	110	1	06/18/14 14:44	06/19/14 00:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	276	138	1	06/18/14 14:44	06/19/14 00:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	1634-04-4	
Naphthalene	ND	ug/kg	221	110	1	06/18/14 14:44	06/19/14 00:09	91-20-3	
n-Propylbenzene	ND	ug/kg	55.2	6.7	1	06/18/14 14:44	06/19/14 00:09	103-65-1	
Styrene	ND	ug/kg	55.2	8.3	1	06/18/14 14:44	06/19/14 00:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	55.2	7.6	1	06/18/14 14:44	06/19/14 00:09	79-34-5	
Tetrachloroethene	146	ug/kg	55.2	19.9	1	06/18/14 14:44	06/19/14 00:09	127-18-4	
Tetrahydrofuran	ND	ug/kg	2210	70.6	1	06/18/14 14:44	06/19/14 00:09	109-99-9	
Toluene	ND	ug/kg	55.2	7.5	1	06/18/14 14:44	06/19/14 00:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	55.2	13.1	1	06/18/14 14:44	06/19/14 00:09	87-61-6	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-12 1.5' **Lab ID: 10270417007** Collected: 06/11/14 09:55 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,4-Trichlorobenzene	ND	ug/kg	55.2	10.0	1	06/18/14 14:44	06/19/14 00:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	55.2	9.3	1	06/18/14 14:44	06/19/14 00:09	79-00-5	
Trichloroethene	ND	ug/kg	55.2	6.9	1	06/18/14 14:44	06/19/14 00:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	221	9.8	1	06/18/14 14:44	06/19/14 00:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	221	7.3	1	06/18/14 14:44	06/19/14 00:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	221	23.1	1	06/18/14 14:44	06/19/14 00:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	55.2	27.6	1	06/18/14 14:44	06/19/14 00:09	108-67-8	
Vinyl chloride	ND	ug/kg	22.1	8.2	1	06/18/14 14:44	06/19/14 00:09	75-01-4	
Xylene (Total)	ND	ug/kg	166	21.7	1	06/18/14 14:44	06/19/14 00:09	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	74-125		1	06/18/14 14:44	06/19/14 00:09	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	06/18/14 14:44	06/19/14 00:09	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	06/18/14 14:44	06/19/14 00:09	460-00-4	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Lab Project No.: 10270417

Sample: GP-12 8' **Lab ID: 10270417008** Collected: 06/11/14 10:00 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	5.1	1.5	5	06/13/14 15:05	06/16/14 09:23	7440-38-2	
Lead	11.3	mg/kg	1.0	0.076	1	06/13/14 15:05	06/14/14 01:36	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	14.5	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	39.6	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	83-32-9	
Acenaphthylene	ND	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	208-96-8	
Anthracene	64.0	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	120-12-7	
Benzo(a)anthracene	127	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	56-55-3	
Benzo(a)pyrene	121	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	50-32-8	
Benzo(b)fluoranthene	143	ug/kg	11.7	0.33	1	06/13/14 10:47	06/18/14 17:54	205-99-2	
Benzo(g,h,i)perylene	74.1	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	191-24-2	
Benzo(k)fluoranthene	55.2	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	207-08-9	
Chrysene	138	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	218-01-9	
Dibenz(a,h)anthracene	19.3	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	53-70-3	
Fluoranthene	284	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	206-44-0	
Fluorene	37.0	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	86-73-7	
Indeno(1,2,3-cd)pyrene	62.4	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	193-39-5	
Naphthalene	ND	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	91-20-3	
Phenanthrene	297	ug/kg	11.7	5.9	1	06/13/14 10:47	06/18/14 17:54	85-01-8	
Pyrene	288	ug/kg	11.7	0.27	1	06/13/14 10:47	06/18/14 17:54	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	172	ug/kg	11.7		1	06/13/14 10:47	06/18/14 17:54		
Surrogates									
2-Fluorobiphenyl (S)	82	%	30-150		1	06/13/14 10:47	06/18/14 17:54	321-60-8	
Terphenyl-d14 (S)	92	%	30-150		1	06/13/14 10:47	06/18/14 17:54	1718-51-0	
8260 MSV 5030 Med Level									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1180	589	1	06/18/14 14:44	06/19/14 00:26	67-64-1	
Allyl chloride	ND	ug/kg	236	7.7	1	06/18/14 14:44	06/19/14 00:26	107-05-1	
Benzene	ND	ug/kg	23.6	11.8	1	06/18/14 14:44	06/19/14 00:26	71-43-2	
Bromobenzene	ND	ug/kg	58.9	10.2	1	06/18/14 14:44	06/19/14 00:26	108-86-1	
Bromochloromethane	ND	ug/kg	58.9	8.0	1	06/18/14 14:44	06/19/14 00:26	74-97-5	
Bromodichloromethane	ND	ug/kg	58.9	10.5	1	06/18/14 14:44	06/19/14 00:26	75-27-4	
Bromoform	ND	ug/kg	236	118	1	06/18/14 14:44	06/19/14 00:26	75-25-2	
Bromomethane	ND	ug/kg	589	294	1	06/18/14 14:44	06/19/14 00:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	294	147	1	06/18/14 14:44	06/19/14 00:26	78-93-3	
n-Butylbenzene	ND	ug/kg	58.9	7.1	1	06/18/14 14:44	06/19/14 00:26	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.9	6.9	1	06/18/14 14:44	06/19/14 00:26	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.9	9.5	1	06/18/14 14:44	06/19/14 00:26	56-23-5	
Chlorobenzene	ND	ug/kg	58.9	9.1	1	06/18/14 14:44	06/19/14 00:26	108-90-7	
Chloroethane	ND	ug/kg	589	14.8	1	06/18/14 14:44	06/19/14 00:26	75-00-3	
Chloroform	ND	ug/kg	58.9	9.0	1	06/18/14 14:44	06/19/14 00:26	67-66-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-12 8' **Lab ID: 10270417008** Collected: 06/11/14 10:00 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chloromethane	ND	ug/kg	236	10.7	1	06/18/14 14:44	06/19/14 00:26	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	589	31.2	1	06/18/14 14:44	06/19/14 00:26	96-12-8	
Dibromochloromethane	ND	ug/kg	58.9	12.7	1	06/18/14 14:44	06/19/14 00:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.9	7.3	1	06/18/14 14:44	06/19/14 00:26	106-93-4	
Dibromomethane	ND	ug/kg	58.9	16.5	1	06/18/14 14:44	06/19/14 00:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	236	27.2	1	06/18/14 14:44	06/19/14 00:26	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.9	8.2	1	06/18/14 14:44	06/19/14 00:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.9	13.9	1	06/18/14 14:44	06/19/14 00:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.9	11.8	1	06/18/14 14:44	06/19/14 00:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.9	12.0	1	06/18/14 14:44	06/19/14 00:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.9	11.7	1	06/18/14 14:44	06/19/14 00:26	156-60-5	
Dichlorofluoromethane	ND	ug/kg	589	294	1	06/18/14 14:44	06/19/14 00:26	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.9	9.5	1	06/18/14 14:44	06/19/14 00:26	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	142-28-9	
2,2-Dichloropropane	ND	ug/kg	236	7.9	1	06/18/14 14:44	06/19/14 00:26	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.9	9.6	1	06/18/14 14:44	06/19/14 00:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.9	7.4	1	06/18/14 14:44	06/19/14 00:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	58.9	8.3	1	06/18/14 14:44	06/19/14 00:26	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	236	12.5	1	06/18/14 14:44	06/19/14 00:26	60-29-7	
Ethylbenzene	ND	ug/kg	58.9	7.4	1	06/18/14 14:44	06/19/14 00:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	294	147	1	06/18/14 14:44	06/19/14 00:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.9	8.5	1	06/18/14 14:44	06/19/14 00:26	99-87-6	
Methylene Chloride	ND	ug/kg	236	118	1	06/18/14 14:44	06/19/14 00:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	294	147	1	06/18/14 14:44	06/19/14 00:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	1634-04-4	
Naphthalene	ND	ug/kg	236	118	1	06/18/14 14:44	06/19/14 00:26	91-20-3	
n-Propylbenzene	ND	ug/kg	58.9	7.1	1	06/18/14 14:44	06/19/14 00:26	103-65-1	
Styrene	ND	ug/kg	58.9	8.8	1	06/18/14 14:44	06/19/14 00:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.9	8.1	1	06/18/14 14:44	06/19/14 00:26	79-34-5	
Tetrachloroethene	391	ug/kg	58.9	21.3	1	06/18/14 14:44	06/19/14 00:26	127-18-4	
Tetrahydrofuran	ND	ug/kg	2360	75.3	1	06/18/14 14:44	06/19/14 00:26	109-99-9	
Toluene	ND	ug/kg	58.9	8.0	1	06/18/14 14:44	06/19/14 00:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.9	14.0	1	06/18/14 14:44	06/19/14 00:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.9	10.7	1	06/18/14 14:44	06/19/14 00:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.9	10	1	06/18/14 14:44	06/19/14 00:26	79-00-5	
Trichloroethene	ND	ug/kg	58.9	7.3	1	06/18/14 14:44	06/19/14 00:26	79-01-6	
Trichlorofluoromethane	ND	ug/kg	236	10.5	1	06/18/14 14:44	06/19/14 00:26	75-69-4	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-12 8' **Lab ID: 10270417008** Collected: 06/11/14 10:00 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,3-Trichloropropane	ND	ug/kg	236	7.8	1	06/18/14 14:44	06/19/14 00:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	236	24.6	1	06/18/14 14:44	06/19/14 00:26	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.9	29.4	1	06/18/14 14:44	06/19/14 00:26	108-67-8	
Vinyl chloride	ND	ug/kg	23.6	8.7	1	06/18/14 14:44	06/19/14 00:26	75-01-4	
Xylene (Total)	ND	ug/kg	177	23.1	1	06/18/14 14:44	06/19/14 00:26	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101 %		74-125		1	06/18/14 14:44	06/19/14 00:26	17060-07-0	
Toluene-d8 (S)	98 %		75-125		1	06/18/14 14:44	06/19/14 00:26	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125		1	06/18/14 14:44	06/19/14 00:26	460-00-4	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-13 1.5' **Lab ID:** 10270417009 Collected: 06/11/14 09:20 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	16.6	mg/kg	10.3	1.5	1	06/16/14 09:30	06/17/14 09:13		T6
Surrogates									
n-Triacontane (S)	85 %.		50-150		1	06/16/14 09:30	06/17/14 09:13	638-68-6	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	1.1	0.31	1	06/13/14 15:05	06/14/14 01:42	7440-38-2	
Lead	164	mg/kg	1.1	0.080	1	06/13/14 15:05	06/14/14 01:42	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	14.4	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	83-32-9	
Acenaphthylene	ND	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	208-96-8	
Anthracene	18.8	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	120-12-7	
Benzo(a)anthracene	104	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	56-55-3	
Benzo(a)pyrene	143	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	50-32-8	
Benzo(b)fluoranthene	196	ug/kg	11.6	0.33	1	06/13/14 10:47	06/19/14 16:04	205-99-2	
Benzo(g,h,i)perylene	114	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	191-24-2	
Benzo(k)fluoranthene	70.3	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	207-08-9	
Chrysene	130	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	218-01-9	
Dibenz(a,h)anthracene	29.1	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	53-70-3	
Fluoranthene	186	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	206-44-0	
Fluorene	ND	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	86-73-7	
Indeno(1,2,3-cd)pyrene	92.8	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	193-39-5	
Naphthalene	ND	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	91-20-3	
Phenanthrene	77.6	ug/kg	11.6	5.8	1	06/13/14 10:47	06/19/14 16:04	85-01-8	
Pyrene	188	ug/kg	11.6	0.27	1	06/13/14 10:47	06/19/14 16:04	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	207	ug/kg	11.6		1	06/13/14 10:47	06/19/14 16:04		
Surrogates									
2-Fluorobiphenyl (S)	83 %.		30-150		1	06/13/14 10:47	06/19/14 16:04	321-60-8	
Terphenyl-d14 (S)	91 %.		30-150		1	06/13/14 10:47	06/19/14 16:04	1718-51-0	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE
Pace Project No.: 10270417

Sample: GP-14 1.5' **Lab ID: 10270417010** Collected: 06/11/14 08:25 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	449	mg/kg	102	15.3	1	06/16/14 09:30	06/17/14 08:37		T6
Surrogates									
n-Triacontane (S)	112	%	50-150		1	06/16/14 09:30	06/17/14 08:37	638-68-6	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	8.0	mg/kg	1.0	0.31	1	06/13/14 15:05	06/14/14 01:48	7440-38-2	
Lead	635	mg/kg	1.0	0.078	1	06/13/14 15:05	06/14/14 01:48	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	9.3	%	0.10	0.10	1		06/12/14 00:00		
8260 MSV 5030 Med Level									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1070	536	1	06/18/14 14:44	06/19/14 00:44	67-64-1	
Allyl chloride	ND	ug/kg	214	7.0	1	06/18/14 14:44	06/19/14 00:44	107-05-1	
Benzene	47.7	ug/kg	21.4	10.7	1	06/18/14 14:44	06/19/14 00:44	71-43-2	
Bromobenzene	ND	ug/kg	53.6	9.3	1	06/18/14 14:44	06/19/14 00:44	108-86-1	
Bromochloromethane	ND	ug/kg	53.6	7.3	1	06/18/14 14:44	06/19/14 00:44	74-97-5	
Bromodichloromethane	ND	ug/kg	53.6	9.5	1	06/18/14 14:44	06/19/14 00:44	75-27-4	
Bromoform	ND	ug/kg	214	107	1	06/18/14 14:44	06/19/14 00:44	75-25-2	
Bromomethane	ND	ug/kg	536	268	1	06/18/14 14:44	06/19/14 00:44	74-83-9	
2-Butanone (MEK)	ND	ug/kg	268	134	1	06/18/14 14:44	06/19/14 00:44	78-93-3	
n-Butylbenzene	ND	ug/kg	53.6	6.5	1	06/18/14 14:44	06/19/14 00:44	104-51-8	
sec-Butylbenzene	ND	ug/kg	53.6	6.3	1	06/18/14 14:44	06/19/14 00:44	135-98-8	
tert-Butylbenzene	ND	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	98-06-6	
Carbon tetrachloride	ND	ug/kg	53.6	8.7	1	06/18/14 14:44	06/19/14 00:44	56-23-5	
Chlorobenzene	ND	ug/kg	53.6	8.2	1	06/18/14 14:44	06/19/14 00:44	108-90-7	
Chloroethane	ND	ug/kg	536	13.5	1	06/18/14 14:44	06/19/14 00:44	75-00-3	
Chloroform	ND	ug/kg	53.6	8.2	1	06/18/14 14:44	06/19/14 00:44	67-66-3	
Chloromethane	ND	ug/kg	214	9.8	1	06/18/14 14:44	06/19/14 00:44	74-87-3	
2-Chlorotoluene	ND	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	95-49-8	
4-Chlorotoluene	ND	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	536	28.4	1	06/18/14 14:44	06/19/14 00:44	96-12-8	
Dibromochloromethane	ND	ug/kg	53.6	11.6	1	06/18/14 14:44	06/19/14 00:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	53.6	6.6	1	06/18/14 14:44	06/19/14 00:44	106-93-4	
Dibromomethane	ND	ug/kg	53.6	15.0	1	06/18/14 14:44	06/19/14 00:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	214	24.7	1	06/18/14 14:44	06/19/14 00:44	75-71-8	
1,1-Dichloroethane	89.8	ug/kg	53.6	7.5	1	06/18/14 14:44	06/19/14 00:44	75-34-3	
1,2-Dichloroethane	ND	ug/kg	53.6	12.6	1	06/18/14 14:44	06/19/14 00:44	107-06-2	
1,1-Dichloroethene	ND	ug/kg	53.6	10.7	1	06/18/14 14:44	06/19/14 00:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	53.6	10.9	1	06/18/14 14:44	06/19/14 00:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	53.6	10.6	1	06/18/14 14:44	06/19/14 00:44	156-60-5	
Dichlorofluoromethane	ND	ug/kg	536	268	1	06/18/14 14:44	06/19/14 00:44	75-43-4	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-14 1.5' **Lab ID:** 10270417010 Collected: 06/11/14 08:25 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2-Dichloropropane	ND	ug/kg	53.6	8.6	1	06/18/14 14:44	06/19/14 00:44	78-87-5	
1,3-Dichloropropane	ND	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	142-28-9	
2,2-Dichloropropane	ND	ug/kg	214	7.2	1	06/18/14 14:44	06/19/14 00:44	594-20-7	
1,1-Dichloropropene	ND	ug/kg	53.6	8.8	1	06/18/14 14:44	06/19/14 00:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	53.6	6.7	1	06/18/14 14:44	06/19/14 00:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	53.6	7.5	1	06/18/14 14:44	06/19/14 00:44	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	214	11.4	1	06/18/14 14:44	06/19/14 00:44	60-29-7	
Ethylbenzene	154	ug/kg	53.6	6.7	1	06/18/14 14:44	06/19/14 00:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	268	134	1	06/18/14 14:44	06/19/14 00:44	87-68-3	
Isopropylbenzene (Cumene)	96.9	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	98-82-8	
p-Isopropyltoluene	ND	ug/kg	53.6	7.8	1	06/18/14 14:44	06/19/14 00:44	99-87-6	
Methylene Chloride	ND	ug/kg	214	107	1	06/18/14 14:44	06/19/14 00:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	2640	ug/kg	268	134	1	06/18/14 14:44	06/19/14 00:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	1634-04-4	
Naphthalene	436	ug/kg	214	107	1	06/18/14 14:44	06/19/14 00:44	91-20-3	
n-Propylbenzene	128	ug/kg	53.6	6.5	1	06/18/14 14:44	06/19/14 00:44	103-65-1	
Styrene	ND	ug/kg	53.6	8.0	1	06/18/14 14:44	06/19/14 00:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	53.6	7.3	1	06/18/14 14:44	06/19/14 00:44	79-34-5	
Tetrachloroethene	1200	ug/kg	53.6	19.3	1	06/18/14 14:44	06/19/14 00:44	127-18-4	
Tetrahydrofuran	ND	ug/kg	2140	68.4	1	06/18/14 14:44	06/19/14 00:44	109-99-9	
Toluene	345	ug/kg	53.6	7.3	1	06/18/14 14:44	06/19/14 00:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	53.6	12.7	1	06/18/14 14:44	06/19/14 00:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	53.6	9.7	1	06/18/14 14:44	06/19/14 00:44	120-82-1	
1,1,1-Trichloroethane	1530	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	53.6	9.1	1	06/18/14 14:44	06/19/14 00:44	79-00-5	
Trichloroethene	231	ug/kg	53.6	6.7	1	06/18/14 14:44	06/19/14 00:44	79-01-6	
Trichlorofluoromethane	ND	ug/kg	214	9.5	1	06/18/14 14:44	06/19/14 00:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	214	7.1	1	06/18/14 14:44	06/19/14 00:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	214	22.4	1	06/18/14 14:44	06/19/14 00:44	76-13-1	
1,2,4-Trimethylbenzene	224	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	95-63-6	
1,3,5-Trimethylbenzene	67.5	ug/kg	53.6	26.8	1	06/18/14 14:44	06/19/14 00:44	108-67-8	
Vinyl chloride	ND	ug/kg	21.4	7.9	1	06/18/14 14:44	06/19/14 00:44	75-01-4	
Xylene (Total)	1580	ug/kg	161	21.0	1	06/18/14 14:44	06/19/14 00:44	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100 %		74-125		1	06/18/14 14:44	06/19/14 00:44	17060-07-0	
Toluene-d8 (S)	97 %		75-125		1	06/18/14 14:44	06/19/14 00:44	2037-26-5	
4-Bromofluorobenzene (S)	104 %		75-125		1	06/18/14 14:44	06/19/14 00:44	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-15 1.5 **Lab ID: 10270417011** Collected: 06/11/14 10:05 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	351	mg/kg	88.4	13.3	1	06/16/14 09:30	06/17/14 08:44		T6
Surrogates									
n-Triacontane (S)	90	%	50-150		1	06/16/14 09:30	06/17/14 08:44	638-68-6	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	0.85	0.25	1	06/13/14 15:05	06/14/14 01:54	7440-38-2	
Lead	39.1	mg/kg	0.85	0.063	1	06/13/14 15:05	06/14/14 01:54	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	4.4	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	83-32-9	
Acenaphthylene	ND	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	208-96-8	
Anthracene	ND	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	120-12-7	
Benzo(a)anthracene	170	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	56-55-3	
Benzo(a)pyrene	198	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	50-32-8	
Benzo(b)fluoranthene	268	ug/kg	105	2.9	1	06/13/14 10:47	06/19/14 16:31	205-99-2	
Benzo(g,h,i)perylene	163	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	191-24-2	
Benzo(k)fluoranthene	106	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	207-08-9	
Chrysene	216	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	53-70-3	
Fluoranthene	363	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	206-44-0	
Fluorene	ND	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	86-73-7	
Indeno(1,2,3-cd)pyrene	117	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	193-39-5	
Naphthalene	ND	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	91-20-3	
Phenanthrene	281	ug/kg	105	52.3	1	06/13/14 10:47	06/19/14 16:31	85-01-8	
Pyrene	404	ug/kg	105	2.4	1	06/13/14 10:47	06/19/14 16:31	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	266	ug/kg	105		1	06/13/14 10:47	06/19/14 16:31		
Surrogates									
2-Fluorobiphenyl (S)	91	%	30-150		1	06/13/14 10:47	06/19/14 16:31	321-60-8	P3
Terphenyl-d14 (S)	96	%	30-150		1	06/13/14 10:47	06/19/14 16:31	1718-51-0	
8260 MSV 5030 Med Level									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1050	523	1	06/18/14 15:08	06/19/14 15:43	67-64-1	
Allyl chloride	ND	ug/kg	209	6.9	1	06/18/14 15:08	06/19/14 15:43	107-05-1	
Benzene	ND	ug/kg	20.9	10.5	1	06/18/14 15:08	06/19/14 15:43	71-43-2	
Bromobenzene	ND	ug/kg	52.3	9.1	1	06/18/14 15:08	06/19/14 15:43	108-86-1	
Bromochloromethane	ND	ug/kg	52.3	7.1	1	06/18/14 15:08	06/19/14 15:43	74-97-5	
Bromodichloromethane	ND	ug/kg	52.3	9.3	1	06/18/14 15:08	06/19/14 15:43	75-27-4	
Bromoform	ND	ug/kg	209	105	1	06/18/14 15:08	06/19/14 15:43	75-25-2	
Bromomethane	ND	ug/kg	523	262	1	06/18/14 15:08	06/19/14 15:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	262	131	1	06/18/14 15:08	06/19/14 15:43	78-93-3	
n-Butylbenzene	ND	ug/kg	52.3	6.4	1	06/18/14 15:08	06/19/14 15:43	104-51-8	
sec-Butylbenzene	ND	ug/kg	52.3	6.2	1	06/18/14 15:08	06/19/14 15:43	135-98-8	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-15 1.5 Lab ID: 10270417011 Collected: 06/11/14 10:05 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
tert-Butylbenzene	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	98-06-6	
Carbon tetrachloride	ND	ug/kg	52.3	8.5	1	06/18/14 15:08	06/19/14 15:43	56-23-5	
Chlorobenzene	ND	ug/kg	52.3	8.0	1	06/18/14 15:08	06/19/14 15:43	108-90-7	
Chloroethane	ND	ug/kg	523	13.2	1	06/18/14 15:08	06/19/14 15:43	75-00-3	
Chloroform	ND	ug/kg	52.3	8.0	1	06/18/14 15:08	06/19/14 15:43	67-66-3	
Chloromethane	ND	ug/kg	209	9.5	1	06/18/14 15:08	06/19/14 15:43	74-87-3	
2-Chlorotoluene	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	95-49-8	
4-Chlorotoluene	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	523	27.7	1	06/18/14 15:08	06/19/14 15:43	96-12-8	
Dibromochloromethane	ND	ug/kg	52.3	11.3	1	06/18/14 15:08	06/19/14 15:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	52.3	6.4	1	06/18/14 15:08	06/19/14 15:43	106-93-4	
Dibromomethane	ND	ug/kg	52.3	14.7	1	06/18/14 15:08	06/19/14 15:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	209	24.2	1	06/18/14 15:08	06/19/14 15:43	75-71-8	
1,1-Dichloroethane	ND	ug/kg	52.3	7.3	1	06/18/14 15:08	06/19/14 15:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	52.3	12.3	1	06/18/14 15:08	06/19/14 15:43	107-06-2	
1,1-Dichloroethene	ND	ug/kg	52.3	10.5	1	06/18/14 15:08	06/19/14 15:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	52.3	10.7	1	06/18/14 15:08	06/19/14 15:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	52.3	10.4	1	06/18/14 15:08	06/19/14 15:43	156-60-5	
Dichlorofluoromethane	ND	ug/kg	523	262	1	06/18/14 15:08	06/19/14 15:43	75-43-4	
1,2-Dichloropropane	ND	ug/kg	52.3	8.4	1	06/18/14 15:08	06/19/14 15:43	78-87-5	
1,3-Dichloropropane	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	142-28-9	
2,2-Dichloropropane	ND	ug/kg	209	7.0	1	06/18/14 15:08	06/19/14 15:43	594-20-7	
1,1-Dichloropropene	ND	ug/kg	52.3	8.5	1	06/18/14 15:08	06/19/14 15:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	52.3	6.6	1	06/18/14 15:08	06/19/14 15:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	52.3	7.4	1	06/18/14 15:08	06/19/14 15:43	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	209	11.1	1	06/18/14 15:08	06/19/14 15:43	60-29-7	
Ethylbenzene	ND	ug/kg	52.3	6.6	1	06/18/14 15:08	06/19/14 15:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	262	131	1	06/18/14 15:08	06/19/14 15:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	98-82-8	
p-Isopropyltoluene	ND	ug/kg	52.3	7.6	1	06/18/14 15:08	06/19/14 15:43	99-87-6	
Methylene Chloride	ND	ug/kg	209	105	1	06/18/14 15:08	06/19/14 15:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	262	131	1	06/18/14 15:08	06/19/14 15:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	1634-04-4	
Naphthalene	ND	ug/kg	209	105	1	06/18/14 15:08	06/19/14 15:43	91-20-3	
n-Propylbenzene	ND	ug/kg	52.3	6.3	1	06/18/14 15:08	06/19/14 15:43	103-65-1	
Styrene	ND	ug/kg	52.3	7.8	1	06/18/14 15:08	06/19/14 15:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.3	7.2	1	06/18/14 15:08	06/19/14 15:43	79-34-5	
Tetrachloroethene	618	ug/kg	52.3	18.9	1	06/18/14 15:08	06/19/14 15:43	127-18-4	
Tetrahydrofuran	ND	ug/kg	2090	66.9	1	06/18/14 15:08	06/19/14 15:43	109-99-9	
Toluene	ND	ug/kg	52.3	7.1	1	06/18/14 15:08	06/19/14 15:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	52.3	12.5	1	06/18/14 15:08	06/19/14 15:43	87-61-6	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-15 1.5 **Lab ID: 10270417011** Collected: 06/11/14 10:05 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,4-Trichlorobenzene	ND	ug/kg	52.3	9.5	1	06/18/14 15:08	06/19/14 15:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	52.3	8.9	1	06/18/14 15:08	06/19/14 15:43	79-00-5	
Trichloroethene	ND	ug/kg	52.3	6.5	1	06/18/14 15:08	06/19/14 15:43	79-01-6	
Trichlorofluoromethane	ND	ug/kg	209	9.3	1	06/18/14 15:08	06/19/14 15:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	209	6.9	1	06/18/14 15:08	06/19/14 15:43	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	209	21.9	1	06/18/14 15:08	06/19/14 15:43	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	52.3	26.2	1	06/18/14 15:08	06/19/14 15:43	108-67-8	
Vinyl chloride	ND	ug/kg	20.9	7.8	1	06/18/14 15:08	06/19/14 15:43	75-01-4	
Xylene (Total)	ND	ug/kg	157	20.6	1	06/18/14 15:08	06/19/14 15:43	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	74-125		1	06/18/14 15:08	06/19/14 15:43	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	06/18/14 15:08	06/19/14 15:43	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	06/18/14 15:08	06/19/14 15:43	460-00-4	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-16 1.5' Lab ID: 10270417012 Collected: 06/11/14 09:25 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.2	16.4	1	06/13/14 07:53	06/18/14 01:49	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.2	5.5	1	06/13/14 07:53	06/18/14 01:49	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.2	8.8	1	06/13/14 07:53	06/18/14 01:49	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.2	6.6	1	06/13/14 07:53	06/18/14 01:49	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.2	7.7	1	06/13/14 07:53	06/18/14 01:49	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	36.2	7.7	1	06/13/14 07:53	06/18/14 01:49	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	36.2	16.4	1	06/13/14 07:53	06/18/14 01:49	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	36.2	6.6	1	06/13/14 07:53	06/18/14 01:49	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	36.2	5.5	1	06/13/14 07:53	06/18/14 01:49	11100-14-4	
Surrogates									
Tetrachloro-m-xylene (S)	78 %.		50-128		1	06/13/14 07:53	06/18/14 01:49	877-09-8	
Decachlorobiphenyl (S)	73 %.		55-130		1	06/13/14 07:53	06/18/14 01:49	2051-24-3	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	1.6	mg/kg	0.78	0.23	1	06/13/14 15:05	06/14/14 02:01	7440-38-2	
Lead	218	mg/kg	0.78	0.058	1	06/13/14 15:05	06/14/14 02:01	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	8.7	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	72.1	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	83-32-9	
Acenaphthylene	63.4	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	208-96-8	
Anthracene	252	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	120-12-7	
Benzo(a)anthracene	703	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	56-55-3	
Benzo(a)pyrene	741	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	50-32-8	
Benzo(b)fluoranthene	950	ug/kg	54.6	1.5	1	06/13/14 10:47	06/19/14 16:52	205-99-2	
Benzo(g,h,i)perylene	474	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	191-24-2	
Benzo(k)fluoranthene	407	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	207-08-9	
Chrysene	766	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	218-01-9	
Dibenz(a,h)anthracene	117	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	53-70-3	
Fluoranthene	1130	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	206-44-0	
Fluorene	62.1	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	86-73-7	
Indeno(1,2,3-cd)pyrene	394	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	193-39-5	
Naphthalene	ND	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	91-20-3	
Phenanthrene	758	ug/kg	54.6	27.3	1	06/13/14 10:47	06/19/14 16:52	85-01-8	
Pyrene	1370	ug/kg	54.6	1.3	1	06/13/14 10:47	06/19/14 16:52	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	1060	ug/kg	54.6		1	06/13/14 10:47	06/19/14 16:52		
Surrogates									
2-Fluorobiphenyl (S)	92 %.		30-150		1	06/13/14 10:47	06/19/14 16:52	321-60-8	P3
Terphenyl-d14 (S)	98 %.		30-150		1	06/13/14 10:47	06/19/14 16:52	1718-51-0	
8260 MSV 5030 Med Level									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1110	557	1	06/18/14 15:08	06/19/14 16:01	67-64-1	
Allyl chloride	ND	ug/kg	223	7.3	1	06/18/14 15:08	06/19/14 16:01	107-05-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-16 1.5' Lab ID: 10270417012 Collected: 06/11/14 09:25 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	ND	ug/kg	22.3	11.1	1	06/18/14 15:08	06/19/14 16:01	71-43-2	
Bromobenzene	ND	ug/kg	55.7	9.7	1	06/18/14 15:08	06/19/14 16:01	108-86-1	
Bromochloromethane	ND	ug/kg	55.7	7.6	1	06/18/14 15:08	06/19/14 16:01	74-97-5	
Bromodichloromethane	ND	ug/kg	55.7	9.9	1	06/18/14 15:08	06/19/14 16:01	75-27-4	
Bromoform	ND	ug/kg	223	111	1	06/18/14 15:08	06/19/14 16:01	75-25-2	
Bromomethane	ND	ug/kg	557	278	1	06/18/14 15:08	06/19/14 16:01	74-83-9	
2-Butanone (MEK)	ND	ug/kg	278	139	1	06/18/14 15:08	06/19/14 16:01	78-93-3	
n-Butylbenzene	ND	ug/kg	55.7	6.8	1	06/18/14 15:08	06/19/14 16:01	104-51-8	
sec-Butylbenzene	ND	ug/kg	55.7	6.6	1	06/18/14 15:08	06/19/14 16:01	135-98-8	
tert-Butylbenzene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	98-06-6	
Carbon tetrachloride	ND	ug/kg	55.7	9.0	1	06/18/14 15:08	06/19/14 16:01	56-23-5	
Chlorobenzene	ND	ug/kg	55.7	8.6	1	06/18/14 15:08	06/19/14 16:01	108-90-7	
Chloroethane	ND	ug/kg	557	14.0	1	06/18/14 15:08	06/19/14 16:01	75-00-3	
Chloroform	ND	ug/kg	55.7	8.5	1	06/18/14 15:08	06/19/14 16:01	67-66-3	
Chloromethane	ND	ug/kg	223	10.2	1	06/18/14 15:08	06/19/14 16:01	74-87-3	
2-Chlorotoluene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	95-49-8	
4-Chlorotoluene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	557	29.5	1	06/18/14 15:08	06/19/14 16:01	96-12-8	
Dibromochloromethane	ND	ug/kg	55.7	12.0	1	06/18/14 15:08	06/19/14 16:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	55.7	6.9	1	06/18/14 15:08	06/19/14 16:01	106-93-4	
Dibromomethane	ND	ug/kg	55.7	15.6	1	06/18/14 15:08	06/19/14 16:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	223	25.7	1	06/18/14 15:08	06/19/14 16:01	75-71-8	
1,1-Dichloroethane	ND	ug/kg	55.7	7.8	1	06/18/14 15:08	06/19/14 16:01	75-34-3	
1,2-Dichloroethane	ND	ug/kg	55.7	13.1	1	06/18/14 15:08	06/19/14 16:01	107-06-2	
1,1-Dichloroethene	ND	ug/kg	55.7	11.1	1	06/18/14 15:08	06/19/14 16:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	55.7	11.4	1	06/18/14 15:08	06/19/14 16:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	55.7	11.0	1	06/18/14 15:08	06/19/14 16:01	156-60-5	
Dichlorofluoromethane	ND	ug/kg	557	278	1	06/18/14 15:08	06/19/14 16:01	75-43-4	
1,2-Dichloropropane	ND	ug/kg	55.7	8.9	1	06/18/14 15:08	06/19/14 16:01	78-87-5	
1,3-Dichloropropane	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	142-28-9	
2,2-Dichloropropane	ND	ug/kg	223	7.4	1	06/18/14 15:08	06/19/14 16:01	594-20-7	
1,1-Dichloropropene	ND	ug/kg	55.7	9.1	1	06/18/14 15:08	06/19/14 16:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	55.7	7.0	1	06/18/14 15:08	06/19/14 16:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	55.7	7.8	1	06/18/14 15:08	06/19/14 16:01	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	223	11.8	1	06/18/14 15:08	06/19/14 16:01	60-29-7	
Ethylbenzene	ND	ug/kg	55.7	7.0	1	06/18/14 15:08	06/19/14 16:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	278	139	1	06/18/14 15:08	06/19/14 16:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	98-82-8	
p-Isopropyltoluene	ND	ug/kg	55.7	8.1	1	06/18/14 15:08	06/19/14 16:01	99-87-6	
Methylene Chloride	ND	ug/kg	223	111	1	06/18/14 15:08	06/19/14 16:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	278	139	1	06/18/14 15:08	06/19/14 16:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	1634-04-4	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-16 1.5' **Lab ID: 10270417012** Collected: 06/11/14 09:25 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Naphthalene	ND	ug/kg	223	111	1	06/18/14 15:08	06/19/14 16:01	91-20-3	
n-Propylbenzene	ND	ug/kg	55.7	6.7	1	06/18/14 15:08	06/19/14 16:01	103-65-1	
Styrene	ND	ug/kg	55.7	8.3	1	06/18/14 15:08	06/19/14 16:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	630-20-6	
1,1,2-Tetrachloroethane	ND	ug/kg	55.7	7.6	1	06/18/14 15:08	06/19/14 16:01	79-34-5	
Tetrachloroethene	ND	ug/kg	55.7	20.1	1	06/18/14 15:08	06/19/14 16:01	127-18-4	
Tetrahydrofuran	ND	ug/kg	2230	71.2	1	06/18/14 15:08	06/19/14 16:01	109-99-9	
Toluene	58.8	ug/kg	55.7	7.6	1	06/18/14 15:08	06/19/14 16:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	55.7	13.3	1	06/18/14 15:08	06/19/14 16:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	55.7	10.1	1	06/18/14 15:08	06/19/14 16:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	55.7	9.4	1	06/18/14 15:08	06/19/14 16:01	79-00-5	
Trichloroethene	ND	ug/kg	55.7	6.9	1	06/18/14 15:08	06/19/14 16:01	79-01-6	
Trichlorofluoromethane	ND	ug/kg	223	9.9	1	06/18/14 15:08	06/19/14 16:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	223	7.4	1	06/18/14 15:08	06/19/14 16:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	223	23.3	1	06/18/14 15:08	06/19/14 16:01	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:01	108-67-8	
Vinyl chloride	ND	ug/kg	22.3	8.3	1	06/18/14 15:08	06/19/14 16:01	75-01-4	
Xylene (Total)	ND	ug/kg	167	21.9	1	06/18/14 15:08	06/19/14 16:01	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	105 %.		74-125		1	06/18/14 15:08	06/19/14 16:01	17060-07-0	
Toluene-d8 (S)	100 %.		75-125		1	06/18/14 15:08	06/19/14 16:01	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		75-125		1	06/18/14 15:08	06/19/14 16:01	460-00-4	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-17 1.5' Lab ID: 10270417013 Collected: 06/11/14 08:30 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.6	16.2	1	06/13/14 07:53	06/18/14 02:37	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.6	5.4	1	06/13/14 07:53	06/18/14 02:37	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.6	8.6	1	06/13/14 07:53	06/18/14 02:37	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.6	6.5	1	06/13/14 07:53	06/18/14 02:37	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.6	7.6	1	06/13/14 07:53	06/18/14 02:37	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	35.6	7.6	1	06/13/14 07:53	06/18/14 02:37	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	35.6	16.2	1	06/13/14 07:53	06/18/14 02:37	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	35.6	6.5	1	06/13/14 07:53	06/18/14 02:37	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	35.6	5.4	1	06/13/14 07:53	06/18/14 02:37	11100-14-4	
Surrogates									
Tetrachloro-m-xylene (S)	72 %.		50-128		1	06/13/14 07:53	06/18/14 02:37	877-09-8	
Decachlorobiphenyl (S)	69 %.		55-130		1	06/13/14 07:53	06/18/14 02:37	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	22.1	mg/kg	9.1	1.4	1	06/16/14 09:30	06/17/14 08:58		T6
Surrogates									
n-Triacontane (S)	74 %.		50-150		1	06/16/14 09:30	06/17/14 08:58	638-68-6	
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	10.4	5.2	1	06/19/14 00:00	06/20/14 18:10		
Surrogates									
a,a,a-Trifluorotoluene (S)	114 %.		80-125		1	06/19/14 00:00	06/20/14 18:10	98-08-8	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	0.96	0.28	1	06/13/14 15:05	06/14/14 02:07	7440-38-2	
Lead	33.7	mg/kg	0.96	0.071	1	06/13/14 15:05	06/14/14 02:07	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	7.4	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	83-32-9	
Acenaphthylene	ND	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	208-96-8	
Anthracene	87.7	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	120-12-7	
Benzo(a)anthracene	400	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	56-55-3	
Benzo(a)pyrene	495	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	50-32-8	
Benzo(b)fluoranthene	699	ug/kg	54.0	1.5	5	06/13/14 10:47	06/18/14 19:48	205-99-2	
Benzo(g,h,i)perylene	415	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	191-24-2	
Benzo(k)fluoranthene	226	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	207-08-9	
Chrysene	490	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	218-01-9	
Dibenz(a,h)anthracene	105	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	53-70-3	
Fluoranthene	678	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	206-44-0	
Fluorene	ND	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	86-73-7	
Indeno(1,2,3-cd)pyrene	331	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	193-39-5	
Naphthalene	ND	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-17 1.5' **Lab ID:** 10270417013 Collected: 06/11/14 08:30 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Phenanthrene	284	ug/kg	54.0	27.0	5	06/13/14 10:47	06/18/14 19:48	85-01-8	
Pyrene	744	ug/kg	54.0	1.2	5	06/13/14 10:47	06/18/14 19:48	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	724	ug/kg	54.0		5	06/13/14 10:47	06/18/14 19:48		
Surrogates									
2-Fluorobiphenyl (S)	77	%.	30-150		5	06/13/14 10:47	06/18/14 19:48	321-60-8	
Terphenyl-d14 (S)	89	%.	30-150		5	06/13/14 10:47	06/18/14 19:48	1718-51-0	
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	5480	2740	5	06/18/14 15:08	06/19/14 14:50	67-64-1	
Allyl chloride	ND	ug/kg	1100	36.0	5	06/18/14 15:08	06/19/14 14:50	107-05-1	
Benzene	ND	ug/kg	110	54.8	5	06/18/14 15:08	06/19/14 14:50	71-43-2	
Bromobenzene	ND	ug/kg	274	47.5	5	06/18/14 15:08	06/19/14 14:50	108-86-1	
Bromochloromethane	ND	ug/kg	274	37.3	5	06/18/14 15:08	06/19/14 14:50	74-97-5	
Bromodichloromethane	ND	ug/kg	274	48.8	5	06/18/14 15:08	06/19/14 14:50	75-27-4	
Bromoform	ND	ug/kg	1100	548	5	06/18/14 15:08	06/19/14 14:50	75-25-2	
Bromomethane	ND	ug/kg	2740	1370	5	06/18/14 15:08	06/19/14 14:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	1370	685	5	06/18/14 15:08	06/19/14 14:50	78-93-3	
n-Butylbenzene	ND	ug/kg	274	33.3	5	06/18/14 15:08	06/19/14 14:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	274	32.3	5	06/18/14 15:08	06/19/14 14:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	98-06-6	
Carbon tetrachloride	ND	ug/kg	274	44.3	5	06/18/14 15:08	06/19/14 14:50	56-23-5	
Chlorobenzene	ND	ug/kg	274	42.2	5	06/18/14 15:08	06/19/14 14:50	108-90-7	
Chloroethane	ND	ug/kg	2740	69.1	5	06/18/14 15:08	06/19/14 14:50	75-00-3	
Chloroform	ND	ug/kg	274	41.8	5	06/18/14 15:08	06/19/14 14:50	67-66-3	
Chloromethane	ND	ug/kg	1100	50.0	5	06/18/14 15:08	06/19/14 14:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	2740	145	5	06/18/14 15:08	06/19/14 14:50	96-12-8	
Dibromochloromethane	ND	ug/kg	274	59.2	5	06/18/14 15:08	06/19/14 14:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	274	33.8	5	06/18/14 15:08	06/19/14 14:50	106-93-4	
Dibromomethane	ND	ug/kg	274	76.8	5	06/18/14 15:08	06/19/14 14:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	1100	127	5	06/18/14 15:08	06/19/14 14:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	274	38.3	5	06/18/14 15:08	06/19/14 14:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	274	64.7	5	06/18/14 15:08	06/19/14 14:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	274	54.8	5	06/18/14 15:08	06/19/14 14:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	274	55.9	5	06/18/14 15:08	06/19/14 14:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	274	54.4	5	06/18/14 15:08	06/19/14 14:50	156-60-5	
Dichlorofluoromethane	ND	ug/kg	2740	1370	5	06/18/14 15:08	06/19/14 14:50	75-43-4	
1,2-Dichloropropane	ND	ug/kg	274	44.0	5	06/18/14 15:08	06/19/14 14:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	1100	36.6	5	06/18/14 15:08	06/19/14 14:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	274	44.8	5	06/18/14 15:08	06/19/14 14:50	563-58-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-17 1.5' Lab ID: 10270417013 Collected: 06/11/14 08:30 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
cis-1,3-Dichloropropene	ND	ug/kg	274	34.4	5	06/18/14 15:08	06/19/14 14:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	274	38.6	5	06/18/14 15:08	06/19/14 14:50	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	1100	58.1	5	06/18/14 15:08	06/19/14 14:50	60-29-7	
Ethylbenzene	ND	ug/kg	274	34.4	5	06/18/14 15:08	06/19/14 14:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	1370	685	5	06/18/14 15:08	06/19/14 14:50	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	274	39.7	5	06/18/14 15:08	06/19/14 14:50	99-87-6	
Methylene Chloride	ND	ug/kg	1100	548	5	06/18/14 15:08	06/19/14 14:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1370	685	5	06/18/14 15:08	06/19/14 14:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	1634-04-4	
Naphthalene	ND	ug/kg	1100	548	5	06/18/14 15:08	06/19/14 14:50	91-20-3	
n-Propylbenzene	ND	ug/kg	274	33.2	5	06/18/14 15:08	06/19/14 14:50	103-65-1	
Styrene	ND	ug/kg	274	41.0	5	06/18/14 15:08	06/19/14 14:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	274	37.6	5	06/18/14 15:08	06/19/14 14:50	79-34-5	
Tetrachloroethene	ND	ug/kg	274	99.0	5	06/18/14 15:08	06/19/14 14:50	127-18-4	
Tetrahydrofuran	ND	ug/kg	11000	350	5	06/18/14 15:08	06/19/14 14:50	109-99-9	
Toluene	ND	ug/kg	274	37.3	5	06/18/14 15:08	06/19/14 14:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	274	65.2	5	06/18/14 15:08	06/19/14 14:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	274	49.8	5	06/18/14 15:08	06/19/14 14:50	120-82-1	
1,1,1-Trichloroethane	1510	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	71-55-6	M1
1,1,2-Trichloroethane	ND	ug/kg	274	46.4	5	06/18/14 15:08	06/19/14 14:50	79-00-5	
Trichloroethene	6170	ug/kg	274	34.1	5	06/18/14 15:08	06/19/14 14:50	79-01-6	M1
Trichlorofluoromethane	ND	ug/kg	1100	48.8	5	06/18/14 15:08	06/19/14 14:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	1100	36.4	5	06/18/14 15:08	06/19/14 14:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	1100	115	5	06/18/14 15:08	06/19/14 14:50	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	274	137	5	06/18/14 15:08	06/19/14 14:50	108-67-8	
Vinyl chloride	ND	ug/kg	110	40.7	5	06/18/14 15:08	06/19/14 14:50	75-01-4	
Xylene (Total)	ND	ug/kg	822	108	5	06/18/14 15:08	06/19/14 14:50	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	74-125		5	06/18/14 15:08	06/19/14 14:50	17060-07-0	
Toluene-d8 (S)	101	%	75-125		5	06/18/14 15:08	06/19/14 14:50	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		5	06/18/14 15:08	06/19/14 14:50	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-18 1.5' **Lab ID:** 10270417014 Collected: 06/11/14 09:30 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	136	mg/kg	88.4	13.3	1	06/16/14 09:30	06/17/14 07:54		T6
Surrogates									
n-Triacontane (S)	91	%	50-150		1	06/16/14 09:30	06/17/14 07:54	638-68-6	
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	10.8	5.4	1	06/20/14 00:00	06/21/14 21:03		
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-125		1	06/20/14 00:00	06/21/14 21:03	98-08-8	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	0.81	0.24	1	06/13/14 15:05	06/14/14 02:21	7440-38-2	
Lead	36.8	mg/kg	0.81	0.060	1	06/13/14 15:05	06/14/14 02:21	7439-92-1	
Dry Weight Analytical Method: ASTM D2974									
Percent Moisture	7.9	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	83-32-9	
Acenaphthylene	ND	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	208-96-8	
Anthracene	228	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	120-12-7	
Benzo(a)anthracene	502	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	56-55-3	
Benzo(a)pyrene	581	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	50-32-8	
Benzo(b)fluoranthene	766	ug/kg	216	6.1	2	06/13/14 10:47	06/19/14 15:41	205-99-2	
Benzo(g,h,i)perylene	478	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	191-24-2	
Benzo(k)fluoranthene	302	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	207-08-9	
Chrysene	657	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	53-70-3	
Fluoranthene	1260	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	206-44-0	
Fluorene	ND	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	86-73-7	
Indeno(1,2,3-cd)pyrene	352	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	193-39-5	
Naphthalene	ND	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	91-20-3	
Phenanthrene	921	ug/kg	216	108	2	06/13/14 10:47	06/19/14 15:41	85-01-8	
Pyrene	1090	ug/kg	216	5.0	2	06/13/14 10:47	06/19/14 15:41	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	779	ug/kg	216		2	06/13/14 10:47	06/19/14 15:41		
Surrogates									
2-Fluorobiphenyl (S)	86	%	30-150		2	06/13/14 10:47	06/19/14 15:41	321-60-8	D3,P3
Terphenyl-d14 (S)	87	%	30-150		2	06/13/14 10:47	06/19/14 15:41	1718-51-0	
8260 MSV 5030 Med Level Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Acetone	ND	ug/kg	1110	555	1	06/18/14 15:08	06/19/14 15:08	67-64-1	
Allyl chloride	ND	ug/kg	222	7.3	1	06/18/14 15:08	06/19/14 15:08	107-05-1	
Benzene	ND	ug/kg	22.2	11.1	1	06/18/14 15:08	06/19/14 15:08	71-43-2	
Bromobenzene	ND	ug/kg	55.5	9.6	1	06/18/14 15:08	06/19/14 15:08	108-86-1	
Bromochloromethane	ND	ug/kg	55.5	7.6	1	06/18/14 15:08	06/19/14 15:08	74-97-5	
Bromodichloromethane	ND	ug/kg	55.5	9.9	1	06/18/14 15:08	06/19/14 15:08	75-27-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-18 1.5' Lab ID: 10270417014 Collected: 06/11/14 09:30 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Bromoform	ND	ug/kg	222	111	1	06/18/14 15:08	06/19/14 15:08	75-25-2	
Bromomethane	ND	ug/kg	555	277	1	06/18/14 15:08	06/19/14 15:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	277	139	1	06/18/14 15:08	06/19/14 15:08	78-93-3	
n-Butylbenzene	ND	ug/kg	55.5	6.7	1	06/18/14 15:08	06/19/14 15:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	55.5	6.5	1	06/18/14 15:08	06/19/14 15:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	98-06-6	
Carbon tetrachloride	ND	ug/kg	55.5	9.0	1	06/18/14 15:08	06/19/14 15:08	56-23-5	
Chlorobenzene	ND	ug/kg	55.5	8.5	1	06/18/14 15:08	06/19/14 15:08	108-90-7	
Chloroethane	ND	ug/kg	555	14.0	1	06/18/14 15:08	06/19/14 15:08	75-00-3	
Chloroform	ND	ug/kg	55.5	8.5	1	06/18/14 15:08	06/19/14 15:08	67-66-3	
Chloromethane	ND	ug/kg	222	10.1	1	06/18/14 15:08	06/19/14 15:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	555	29.4	1	06/18/14 15:08	06/19/14 15:08	96-12-8	
Dibromochloromethane	ND	ug/kg	55.5	12.0	1	06/18/14 15:08	06/19/14 15:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	55.5	6.8	1	06/18/14 15:08	06/19/14 15:08	106-93-4	
Dibromomethane	ND	ug/kg	55.5	15.5	1	06/18/14 15:08	06/19/14 15:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	222	25.6	1	06/18/14 15:08	06/19/14 15:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	55.5	7.8	1	06/18/14 15:08	06/19/14 15:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	55.5	13.1	1	06/18/14 15:08	06/19/14 15:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	55.5	11.1	1	06/18/14 15:08	06/19/14 15:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	55.5	11.3	1	06/18/14 15:08	06/19/14 15:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	55.5	11.0	1	06/18/14 15:08	06/19/14 15:08	156-60-5	
Dichlorofluoromethane	ND	ug/kg	555	277	1	06/18/14 15:08	06/19/14 15:08	75-43-4	
1,2-Dichloropropane	ND	ug/kg	55.5	8.9	1	06/18/14 15:08	06/19/14 15:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	222	7.4	1	06/18/14 15:08	06/19/14 15:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	55.5	9.1	1	06/18/14 15:08	06/19/14 15:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	55.5	7.0	1	06/18/14 15:08	06/19/14 15:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	55.5	7.8	1	06/18/14 15:08	06/19/14 15:08	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	222	11.8	1	06/18/14 15:08	06/19/14 15:08	60-29-7	
Ethylbenzene	ND	ug/kg	55.5	7.0	1	06/18/14 15:08	06/19/14 15:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	277	139	1	06/18/14 15:08	06/19/14 15:08	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	55.5	8.0	1	06/18/14 15:08	06/19/14 15:08	99-87-6	
Methylene Chloride	ND	ug/kg	222	111	1	06/18/14 15:08	06/19/14 15:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	277	139	1	06/18/14 15:08	06/19/14 15:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	1634-04-4	
Naphthalene	ND	ug/kg	222	111	1	06/18/14 15:08	06/19/14 15:08	91-20-3	
n-Propylbenzene	ND	ug/kg	55.5	6.7	1	06/18/14 15:08	06/19/14 15:08	103-65-1	
Styrene	ND	ug/kg	55.5	8.3	1	06/18/14 15:08	06/19/14 15:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-18 1.5' **Lab ID: 10270417014** Collected: 06/11/14 09:30 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,2,2-Tetrachloroethane	ND	ug/kg	55.5	7.6	1	06/18/14 15:08	06/19/14 15:08	79-34-5	
Tetrachloroethene	ND	ug/kg	55.5	20.0	1	06/18/14 15:08	06/19/14 15:08	127-18-4	
Tetrahydrofuran	ND	ug/kg	2220	70.9	1	06/18/14 15:08	06/19/14 15:08	109-99-9	
Toluene	ND	ug/kg	55.5	7.5	1	06/18/14 15:08	06/19/14 15:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	55.5	13.2	1	06/18/14 15:08	06/19/14 15:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	55.5	10.1	1	06/18/14 15:08	06/19/14 15:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	55.5	9.4	1	06/18/14 15:08	06/19/14 15:08	79-00-5	
Trichloroethene	ND	ug/kg	55.5	6.9	1	06/18/14 15:08	06/19/14 15:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	222	9.9	1	06/18/14 15:08	06/19/14 15:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	222	7.4	1	06/18/14 15:08	06/19/14 15:08	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	222	23.2	1	06/18/14 15:08	06/19/14 15:08	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	55.5	27.7	1	06/18/14 15:08	06/19/14 15:08	108-67-8	
Vinyl chloride	ND	ug/kg	22.2	8.2	1	06/18/14 15:08	06/19/14 15:08	75-01-4	
Xylene (Total)	ND	ug/kg	166	21.8	1	06/18/14 15:08	06/19/14 15:08	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103 %		74-125		1	06/18/14 15:08	06/19/14 15:08	17060-07-0	
Toluene-d8 (S)	101 %		75-125		1	06/18/14 15:08	06/19/14 15:08	2037-26-5	
4-Bromofluorobenzene (S)	104 %		75-125		1	06/18/14 15:08	06/19/14 15:08	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-19 1.5' **Lab ID:** 10270417015 Collected: 06/11/14 09:35 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	40.7	mg/kg	9.8	1.5	1	06/16/14 09:30	06/17/14 08:15		T6
Surrogates									
n-Triacontane (S)	92	%	50-150		1	06/16/14 09:30	06/17/14 08:15	638-68-6	
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	11.1	5.5	1	06/21/14 00:00	06/22/14 03:13		
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-125		1	06/21/14 00:00	06/22/14 03:13	98-08-8	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	4.5	mg/kg	0.87	0.25	1	06/13/14 15:05	06/14/14 02:27	7440-38-2	
Lead	407	mg/kg	0.87	0.065	1	06/13/14 15:05	06/14/14 02:27	7439-92-1	
Dry Weight Analytical Method: ASTM D2974									
Percent Moisture	9.2	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	83-32-9	
Acenaphthylene	ND	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	208-96-8	
Anthracene	348	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	120-12-7	
Benzo(a)anthracene	1250	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	56-55-3	
Benzo(a)pyrene	1420	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	50-32-8	
Benzo(b)fluoranthene	1750	ug/kg	110	3.1	10	06/13/14 10:47	06/18/14 21:20	205-99-2	
Benzo(g,h,i)perylene	1010	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	191-24-2	
Benzo(k)fluoranthene	623	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	207-08-9	
Chrysene	1480	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	218-01-9	
Dibenz(a,h)anthracene	262	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	53-70-3	
Fluoranthene	2340	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	206-44-0	
Fluorene	ND	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	86-73-7	
Indeno(1,2,3-cd)pyrene	829	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	193-39-5	
Naphthalene	ND	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	91-20-3	
Phenanthrene	1230	ug/kg	110	55.0	10	06/13/14 10:47	06/18/14 21:20	85-01-8	
Pyrene	2470	ug/kg	110	2.5	10	06/13/14 10:47	06/18/14 21:20	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	2030	ug/kg	110		10	06/13/14 10:47	06/18/14 21:20		
Surrogates									
2-Fluorobiphenyl (S)	96	%	30-150		10	06/13/14 10:47	06/18/14 21:20	321-60-8	
Terphenyl-d14 (S)	101	%	30-150		10	06/13/14 10:47	06/18/14 21:20	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-21 1.5' Lab ID: 10270417016 Collected: 06/11/14 09:40 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.1	16.4	1	06/13/14 07:53	06/18/14 02:53	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.1	5.5	1	06/13/14 07:53	06/18/14 02:53	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.1	8.8	1	06/13/14 07:53	06/18/14 02:53	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.1	6.6	1	06/13/14 07:53	06/18/14 02:53	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.1	7.7	1	06/13/14 07:53	06/18/14 02:53	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	36.1	7.7	1	06/13/14 07:53	06/18/14 02:53	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	36.1	16.4	1	06/13/14 07:53	06/18/14 02:53	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	36.1	6.6	1	06/13/14 07:53	06/18/14 02:53	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	36.1	5.5	1	06/13/14 07:53	06/18/14 02:53	11100-14-4	
Surrogates									
Tetrachloro-m-xylene (S)	79 %.		50-128		1	06/13/14 07:53	06/18/14 02:53	877-09-8	
Decachlorobiphenyl (S)	76 %.		55-130		1	06/13/14 07:53	06/18/14 02:53	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	14.9	mg/kg	9.6	1.4	1	06/16/14 09:30	06/17/14 08:51		T6
Surrogates									
n-Triacontane (S)	81 %.		50-150		1	06/16/14 09:30	06/17/14 08:51	638-68-6	
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	11.0	5.5	1	06/21/14 00:00	06/22/14 03:33		
Surrogates									
a,a,a-Trifluorotoluene (S)	104 %.		80-125		1	06/21/14 00:00	06/22/14 03:33	98-08-8	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	8.7	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	15.2	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	83-32-9	
Acenaphthylene	ND	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	208-96-8	
Anthracene	54.3	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	120-12-7	
Benzo(a)anthracene	108	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	56-55-3	
Benzo(a)pyrene	100	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	50-32-8	
Benzo(b)fluoranthene	130	ug/kg	11.0	0.31	1	06/13/14 10:47	06/19/14 17:13	205-99-2	
Benzo(g,h,i)perylene	66.0	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	191-24-2	
Benzo(k)fluoranthene	53.5	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	207-08-9	
Chrysene	97.8	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	218-01-9	
Dibenz(a,h)anthracene	15.3	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	53-70-3	
Fluoranthene	171	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	206-44-0	
Fluorene	17.2	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	86-73-7	
Indeno(1,2,3-cd)pyrene	50.1	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	193-39-5	
Naphthalene	11.0	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	91-20-3	
Phenanthrene	160	ug/kg	11.0	5.5	1	06/13/14 10:47	06/19/14 17:13	85-01-8	
Pyrene	190	ug/kg	11.0	0.25	1	06/13/14 10:47	06/19/14 17:13	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	144	ug/kg	11.0		1	06/13/14 10:47	06/19/14 17:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-21 1.5' **Lab ID: 10270417016** Collected: 06/11/14 09:40 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Surrogates									
2-Fluorobiphenyl (S)	74 %.		30-150		1	06/13/14 10:47	06/19/14 17:13	321-60-8	
Terphenyl-d14 (S)	92 %.		30-150		1	06/13/14 10:47	06/19/14 17:13	1718-51-0	
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1110	557	1	06/18/14 15:08	06/19/14 16:19	67-64-1	
Allyl chloride	ND	ug/kg	223	7.3	1	06/18/14 15:08	06/19/14 16:19	107-05-1	
Benzene	ND	ug/kg	22.3	11.1	1	06/18/14 15:08	06/19/14 16:19	71-43-2	
Bromobenzene	ND	ug/kg	55.7	9.7	1	06/18/14 15:08	06/19/14 16:19	108-86-1	
Bromochloromethane	ND	ug/kg	55.7	7.6	1	06/18/14 15:08	06/19/14 16:19	74-97-5	
Bromodichloromethane	ND	ug/kg	55.7	9.9	1	06/18/14 15:08	06/19/14 16:19	75-27-4	
Bromoform	ND	ug/kg	223	111	1	06/18/14 15:08	06/19/14 16:19	75-25-2	
Bromomethane	ND	ug/kg	557	278	1	06/18/14 15:08	06/19/14 16:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	278	139	1	06/18/14 15:08	06/19/14 16:19	78-93-3	
n-Butylbenzene	ND	ug/kg	55.7	6.8	1	06/18/14 15:08	06/19/14 16:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	55.7	6.6	1	06/18/14 15:08	06/19/14 16:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	98-06-6	
Carbon tetrachloride	ND	ug/kg	55.7	9.0	1	06/18/14 15:08	06/19/14 16:19	56-23-5	
Chlorobenzene	ND	ug/kg	55.7	8.6	1	06/18/14 15:08	06/19/14 16:19	108-90-7	
Chloroethane	ND	ug/kg	557	14.0	1	06/18/14 15:08	06/19/14 16:19	75-00-3	
Chloroform	ND	ug/kg	55.7	8.5	1	06/18/14 15:08	06/19/14 16:19	67-66-3	
Chloromethane	ND	ug/kg	223	10.2	1	06/18/14 15:08	06/19/14 16:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	557	29.5	1	06/18/14 15:08	06/19/14 16:19	96-12-8	
Dibromochloromethane	ND	ug/kg	55.7	12.0	1	06/18/14 15:08	06/19/14 16:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	55.7	6.9	1	06/18/14 15:08	06/19/14 16:19	106-93-4	
Dibromomethane	ND	ug/kg	55.7	15.6	1	06/18/14 15:08	06/19/14 16:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	223	25.7	1	06/18/14 15:08	06/19/14 16:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	55.7	7.8	1	06/18/14 15:08	06/19/14 16:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	55.7	13.1	1	06/18/14 15:08	06/19/14 16:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	55.7	11.1	1	06/18/14 15:08	06/19/14 16:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	55.7	11.4	1	06/18/14 15:08	06/19/14 16:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	55.7	11.0	1	06/18/14 15:08	06/19/14 16:19	156-60-5	
Dichlorofluoromethane	ND	ug/kg	557	278	1	06/18/14 15:08	06/19/14 16:19	75-43-4	
1,2-Dichloropropane	ND	ug/kg	55.7	8.9	1	06/18/14 15:08	06/19/14 16:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	223	7.4	1	06/18/14 15:08	06/19/14 16:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	55.7	9.1	1	06/18/14 15:08	06/19/14 16:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	55.7	7.0	1	06/18/14 15:08	06/19/14 16:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	55.7	7.8	1	06/18/14 15:08	06/19/14 16:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	223	11.8	1	06/18/14 15:08	06/19/14 16:19	60-29-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: GP-21 1.5' **Lab ID: 10270417016** Collected: 06/11/14 09:40 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Ethylbenzene	ND	ug/kg	55.7	7.0	1	06/18/14 15:08	06/19/14 16:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	278	139	1	06/18/14 15:08	06/19/14 16:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	55.7	8.1	1	06/18/14 15:08	06/19/14 16:19	99-87-6	
Methylene Chloride	ND	ug/kg	223	111	1	06/18/14 15:08	06/19/14 16:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	278	139	1	06/18/14 15:08	06/19/14 16:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	1634-04-4	
Naphthalene	ND	ug/kg	223	111	1	06/18/14 15:08	06/19/14 16:19	91-20-3	
n-Propylbenzene	ND	ug/kg	55.7	6.7	1	06/18/14 15:08	06/19/14 16:19	103-65-1	
Styrene	ND	ug/kg	55.7	8.3	1	06/18/14 15:08	06/19/14 16:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	55.7	7.6	1	06/18/14 15:08	06/19/14 16:19	79-34-5	
Tetrachloroethene	ND	ug/kg	55.7	20.1	1	06/18/14 15:08	06/19/14 16:19	127-18-4	
Tetrahydrofuran	ND	ug/kg	2230	71.2	1	06/18/14 15:08	06/19/14 16:19	109-99-9	
Toluene	ND	ug/kg	55.7	7.6	1	06/18/14 15:08	06/19/14 16:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	55.7	13.3	1	06/18/14 15:08	06/19/14 16:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	55.7	10.1	1	06/18/14 15:08	06/19/14 16:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	55.7	9.4	1	06/18/14 15:08	06/19/14 16:19	79-00-5	
Trichloroethene	ND	ug/kg	55.7	6.9	1	06/18/14 15:08	06/19/14 16:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	223	9.9	1	06/18/14 15:08	06/19/14 16:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	223	7.4	1	06/18/14 15:08	06/19/14 16:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	223	23.3	1	06/18/14 15:08	06/19/14 16:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	55.7	27.8	1	06/18/14 15:08	06/19/14 16:19	108-67-8	
Vinyl chloride	ND	ug/kg	22.3	8.3	1	06/18/14 15:08	06/19/14 16:19	75-01-4	
Xylene (Total)	ND	ug/kg	167	21.9	1	06/18/14 15:08	06/19/14 16:19	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104 %.		74-125		1	06/18/14 15:08	06/19/14 16:19	17060-07-0	
Toluene-d8 (S)	100 %.		75-125		1	06/18/14 15:08	06/19/14 16:19	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125		1	06/18/14 15:08	06/19/14 16:19	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-1 1.5' **Lab ID:** 10270417017 Collected: 06/11/14 08:00 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	ND	ug/kg	60.4	27.5	1	06/13/14 07:53	06/18/14 03:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	60.4	9.2	1	06/13/14 07:53	06/18/14 03:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	60.4	14.6	1	06/13/14 07:53	06/18/14 03:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	60.4	11.0	1	06/13/14 07:53	06/18/14 03:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	60.4	12.8	1	06/13/14 07:53	06/18/14 03:09	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	60.4	12.8	1	06/13/14 07:53	06/18/14 03:09	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	60.4	27.5	1	06/13/14 07:53	06/18/14 03:09	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	60.4	11.0	1	06/13/14 07:53	06/18/14 03:09	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	60.4	9.2	1	06/13/14 07:53	06/18/14 03:09	11100-14-4	
Surrogates									
Tetrachloro-m-xylene (S)	59 %.		50-128		1	06/13/14 07:53	06/18/14 03:09	877-09-8	
Decachlorobiphenyl (S)	56 %.		55-130		1	06/13/14 07:53	06/18/14 03:09	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	ND	mg/kg	8.2	1.2	1	06/16/14 09:30	06/17/14 09:34		
Surrogates									
n-Triacontane (S)	106 %.		50-150		1	06/16/14 09:30	06/17/14 09:34	638-68-6	
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	11.3	5.7	1	06/21/14 00:00	06/22/14 03:52		
Surrogates									
a,a,a-Trifluorotoluene (S)	107 %.		80-125		1	06/21/14 00:00	06/22/14 03:52	98-08-8	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	0.85	0.25	1	06/13/14 15:05	06/14/14 02:33	7440-38-2	
Lead	68.6	mg/kg	0.85	0.063	1	06/13/14 15:05	06/14/14 02:33	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	9.5	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	83-32-9	
Acenaphthylene	ND	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	208-96-8	
Anthracene	42.1	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	120-12-7	
Benzo(a)anthracene	106	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	56-55-3	
Benzo(a)pyrene	105	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	50-32-8	
Benzo(b)fluoranthene	125	ug/kg	22.1	0.62	2	06/13/14 10:47	06/18/14 23:14	205-99-2	
Benzo(g,h,i)perylene	65.3	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	191-24-2	
Benzo(k)fluoranthene	52.3	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	207-08-9	
Chrysene	121	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	53-70-3	
Fluoranthene	207	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	206-44-0	
Fluorene	ND	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	86-73-7	
Indeno(1,2,3-cd)pyrene	55.5	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	193-39-5	
Naphthalene	ND	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-1 1.5' **Lab ID:** 10270417017 **Collected:** 06/11/14 08:00 **Received:** 06/11/14 17:37 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Phenanthrene	148	ug/kg	22.1	11.0	2	06/13/14 10:47	06/18/14 23:14	85-01-8	
Pyrene	218	ug/kg	22.1	0.51	2	06/13/14 10:47	06/18/14 23:14	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	140	ug/kg	22.1		2	06/13/14 10:47	06/18/14 23:14		
Surrogates									
2-Fluorobiphenyl (S)	72	%.	30-150		2	06/13/14 10:47	06/18/14 23:14	321-60-8	
Terphenyl-d14 (S)	95	%.	30-150		2	06/13/14 10:47	06/18/14 23:14	1718-51-0	
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1130	563	1	06/18/14 15:08	06/19/14 16:36	67-64-1	
Allyl chloride	ND	ug/kg	225	7.4	1	06/18/14 15:08	06/19/14 16:36	107-05-1	
Benzene	ND	ug/kg	22.5	11.3	1	06/18/14 15:08	06/19/14 16:36	71-43-2	
Bromobenzene	ND	ug/kg	56.3	9.8	1	06/18/14 15:08	06/19/14 16:36	108-86-1	
Bromochloromethane	ND	ug/kg	56.3	7.7	1	06/18/14 15:08	06/19/14 16:36	74-97-5	
Bromodichloromethane	ND	ug/kg	56.3	10.0	1	06/18/14 15:08	06/19/14 16:36	75-27-4	
Bromoform	ND	ug/kg	225	113	1	06/18/14 15:08	06/19/14 16:36	75-25-2	
Bromomethane	ND	ug/kg	563	282	1	06/18/14 15:08	06/19/14 16:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	282	141	1	06/18/14 15:08	06/19/14 16:36	78-93-3	
n-Butylbenzene	ND	ug/kg	56.3	6.8	1	06/18/14 15:08	06/19/14 16:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.3	6.6	1	06/18/14 15:08	06/19/14 16:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	98-06-6	
Carbon tetrachloride	ND	ug/kg	56.3	9.1	1	06/18/14 15:08	06/19/14 16:36	56-23-5	
Chlorobenzene	ND	ug/kg	56.3	8.7	1	06/18/14 15:08	06/19/14 16:36	108-90-7	
Chloroethane	ND	ug/kg	563	14.2	1	06/18/14 15:08	06/19/14 16:36	75-00-3	
Chloroform	ND	ug/kg	56.3	8.6	1	06/18/14 15:08	06/19/14 16:36	67-66-3	
Chloromethane	ND	ug/kg	225	10.3	1	06/18/14 15:08	06/19/14 16:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	563	29.8	1	06/18/14 15:08	06/19/14 16:36	96-12-8	
Dibromochloromethane	ND	ug/kg	56.3	12.2	1	06/18/14 15:08	06/19/14 16:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.3	6.9	1	06/18/14 15:08	06/19/14 16:36	106-93-4	
Dibromomethane	ND	ug/kg	56.3	15.8	1	06/18/14 15:08	06/19/14 16:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	225	26.0	1	06/18/14 15:08	06/19/14 16:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.3	7.9	1	06/18/14 15:08	06/19/14 16:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.3	13.3	1	06/18/14 15:08	06/19/14 16:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	56.3	11.3	1	06/18/14 15:08	06/19/14 16:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	56.3	11.5	1	06/18/14 15:08	06/19/14 16:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.3	11.2	1	06/18/14 15:08	06/19/14 16:36	156-60-5	
Dichlorofluoromethane	ND	ug/kg	563	282	1	06/18/14 15:08	06/19/14 16:36	75-43-4	
1,2-Dichloropropane	ND	ug/kg	56.3	9.0	1	06/18/14 15:08	06/19/14 16:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	225	7.5	1	06/18/14 15:08	06/19/14 16:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	56.3	9.2	1	06/18/14 15:08	06/19/14 16:36	563-58-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-1 1.5' **Lab ID:** 10270417017 **Collected:** 06/11/14 08:00 **Received:** 06/11/14 17:37 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
cis-1,3-Dichloropropene	ND	ug/kg	56.3	7.1	1	06/18/14 15:08	06/19/14 16:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	56.3	7.9	1	06/18/14 15:08	06/19/14 16:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	225	11.9	1	06/18/14 15:08	06/19/14 16:36	60-29-7	
Ethylbenzene	ND	ug/kg	56.3	7.1	1	06/18/14 15:08	06/19/14 16:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	282	141	1	06/18/14 15:08	06/19/14 16:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	56.3	8.2	1	06/18/14 15:08	06/19/14 16:36	99-87-6	
Methylene Chloride	ND	ug/kg	225	113	1	06/18/14 15:08	06/19/14 16:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	282	141	1	06/18/14 15:08	06/19/14 16:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	1634-04-4	
Naphthalene	ND	ug/kg	225	113	1	06/18/14 15:08	06/19/14 16:36	91-20-3	
n-Propylbenzene	ND	ug/kg	56.3	6.8	1	06/18/14 15:08	06/19/14 16:36	103-65-1	
Styrene	ND	ug/kg	56.3	8.4	1	06/18/14 15:08	06/19/14 16:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.3	7.7	1	06/18/14 15:08	06/19/14 16:36	79-34-5	
Tetrachloroethene	ND	ug/kg	56.3	20.3	1	06/18/14 15:08	06/19/14 16:36	127-18-4	
Tetrahydrofuran	ND	ug/kg	2250	72.0	1	06/18/14 15:08	06/19/14 16:36	109-99-9	
Toluene	ND	ug/kg	56.3	7.7	1	06/18/14 15:08	06/19/14 16:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.3	13.4	1	06/18/14 15:08	06/19/14 16:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	56.3	10.2	1	06/18/14 15:08	06/19/14 16:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.3	9.5	1	06/18/14 15:08	06/19/14 16:36	79-00-5	
Trichloroethene	ND	ug/kg	56.3	7.0	1	06/18/14 15:08	06/19/14 16:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	225	10.0	1	06/18/14 15:08	06/19/14 16:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	225	7.5	1	06/18/14 15:08	06/19/14 16:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	225	23.5	1	06/18/14 15:08	06/19/14 16:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.3	28.2	1	06/18/14 15:08	06/19/14 16:36	108-67-8	
Vinyl chloride	ND	ug/kg	22.5	8.4	1	06/18/14 15:08	06/19/14 16:36	75-01-4	
Xylene (Total)	ND	ug/kg	169	22.1	1	06/18/14 15:08	06/19/14 16:36	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104 %.		74-125		1	06/18/14 15:08	06/19/14 16:36	17060-07-0	
Toluene-d8 (S)	101 %.		75-125		1	06/18/14 15:08	06/19/14 16:36	2037-26-5	
4-Bromofluorobenzene (S)	103 %.		75-125		1	06/18/14 15:08	06/19/14 16:36	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-2 1.5' **Lab ID: 10270417018** Collected: 06/11/14 08:05 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.8	17.2	1	06/13/14 07:53	06/18/14 03:25	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.8	5.7	1	06/13/14 07:53	06/18/14 03:25	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.8	9.2	1	06/13/14 07:53	06/18/14 03:25	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.8	6.9	1	06/13/14 07:53	06/18/14 03:25	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.8	8.0	1	06/13/14 07:53	06/18/14 03:25	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	37.8	8.0	1	06/13/14 07:53	06/18/14 03:25	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.8	17.2	1	06/13/14 07:53	06/18/14 03:25	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	37.8	6.9	1	06/13/14 07:53	06/18/14 03:25	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	37.8	5.7	1	06/13/14 07:53	06/18/14 03:25	11100-14-4	
Surrogates									
Tetrachloro-m-xylene (S)	72 %.		50-128		1	06/13/14 07:53	06/18/14 03:25	877-09-8	
Decachlorobiphenyl (S)	70 %.		55-130		1	06/13/14 07:53	06/18/14 03:25	2051-24-3	
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	34.2	mg/kg	10.8	1.6	1	06/16/14 09:30	06/17/14 09:20		T6
Surrogates									
n-Triacontane (S)	77 %.		50-150		1	06/16/14 09:30	06/17/14 09:20	638-68-6	
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	11.2	5.6	1	06/21/14 00:00	06/22/14 04:12		
Surrogates									
a,a,a-Trifluorotoluene (S)	112 %.		80-125		1	06/21/14 00:00	06/22/14 04:12	98-08-8	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	2.7	mg/kg	0.81	0.24	1	06/13/14 15:05	06/14/14 02:39	7440-38-2	
Lead	154	mg/kg	0.81	0.060	1	06/13/14 15:05	06/14/14 02:39	7439-92-1	
Dry Weight Analytical Method: ASTM D2974									
Percent Moisture	13.0	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	53.8	ug/kg	11.5	5.7	1	06/13/14 12:20	06/15/14 16:58	83-32-9	
Acenaphthylene	17.7	ug/kg	11.5	5.7	1	06/13/14 12:20	06/15/14 16:58	208-96-8	
Anthracene	140	ug/kg	11.5	5.7	1	06/13/14 12:20	06/15/14 16:58	120-12-7	
Benzo(a)anthracene	573	ug/kg	57.5	28.7	5	06/13/14 12:20	06/19/14 09:43	56-55-3	
Benzo(a)pyrene	481	ug/kg	57.5	28.7	5	06/13/14 12:20	06/19/14 09:43	50-32-8	
Benzo(b)fluoranthene	602	ug/kg	57.5	1.6	5	06/13/14 12:20	06/19/14 09:43	205-99-2	
Benzo(g,h,i)perylene	262	ug/kg	11.5	5.7	1	06/13/14 12:20	06/15/14 16:58	191-24-2	
Benzo(k)fluoranthene	229	ug/kg	11.5	5.7	1	06/13/14 12:20	06/15/14 16:58	207-08-9	
Chrysene	538	ug/kg	57.5	28.7	5	06/13/14 12:20	06/19/14 09:43	218-01-9	
Dibenz(a,h)anthracene	87.0	ug/kg	11.5	5.7	1	06/13/14 12:20	06/15/14 16:58	53-70-3	
Fluoranthene	918	ug/kg	57.5	28.7	5	06/13/14 12:20	06/19/14 09:43	206-44-0	
Fluorene	50.0	ug/kg	11.5	5.7	1	06/13/14 12:20	06/15/14 16:58	86-73-7	
Indeno(1,2,3-cd)pyrene	212	ug/kg	11.5	5.7	1	06/13/14 12:20	06/15/14 16:58	193-39-5	
Naphthalene	36.9	ug/kg	11.5	5.7	1	06/13/14 12:20	06/15/14 16:58	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-2 1.5' **Lab ID:** 10270417018 Collected: 06/11/14 08:05 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Phenanthrene	756	ug/kg	57.5	28.7	5	06/13/14 12:20	06/19/14 09:43	85-01-8	
Pyrene	1070	ug/kg	57.5	1.3	5	06/13/14 12:20	06/19/14 09:43	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	697	ug/kg	57.5		5	06/13/14 12:20	06/19/14 09:43		
Surrogates									
2-Fluorobiphenyl (S)	77	%	30-150		1	06/13/14 12:20	06/15/14 16:58	321-60-8	
Terphenyl-d14 (S)	98	%	30-150		1	06/13/14 12:20	06/15/14 16:58	1718-51-0	
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	2260	1130	2	06/18/14 15:08	06/19/14 16:54	67-64-1	
Allyl chloride	ND	ug/kg	451	14.8	2	06/18/14 15:08	06/19/14 16:54	107-05-1	
Benzene	ND	ug/kg	45.1	22.6	2	06/18/14 15:08	06/19/14 16:54	71-43-2	
Bromobenzene	ND	ug/kg	113	19.6	2	06/18/14 15:08	06/19/14 16:54	108-86-1	
Bromochloromethane	ND	ug/kg	113	15.4	2	06/18/14 15:08	06/19/14 16:54	74-97-5	
Bromodichloromethane	ND	ug/kg	113	20.1	2	06/18/14 15:08	06/19/14 16:54	75-27-4	
Bromoform	ND	ug/kg	451	226	2	06/18/14 15:08	06/19/14 16:54	75-25-2	
Bromomethane	ND	ug/kg	1130	564	2	06/18/14 15:08	06/19/14 16:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	564	282	2	06/18/14 15:08	06/19/14 16:54	78-93-3	
n-Butylbenzene	ND	ug/kg	113	13.7	2	06/18/14 15:08	06/19/14 16:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	113	13.3	2	06/18/14 15:08	06/19/14 16:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	113	18.2	2	06/18/14 15:08	06/19/14 16:54	56-23-5	
Chlorobenzene	ND	ug/kg	113	17.3	2	06/18/14 15:08	06/19/14 16:54	108-90-7	
Chloroethane	ND	ug/kg	1130	28.4	2	06/18/14 15:08	06/19/14 16:54	75-00-3	
Chloroform	ND	ug/kg	113	17.2	2	06/18/14 15:08	06/19/14 16:54	67-66-3	
Chloromethane	ND	ug/kg	451	20.6	2	06/18/14 15:08	06/19/14 16:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	1130	59.8	2	06/18/14 15:08	06/19/14 16:54	96-12-8	
Dibromochloromethane	ND	ug/kg	113	24.4	2	06/18/14 15:08	06/19/14 16:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	113	13.9	2	06/18/14 15:08	06/19/14 16:54	106-93-4	
Dibromomethane	ND	ug/kg	113	31.6	2	06/18/14 15:08	06/19/14 16:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	451	52.1	2	06/18/14 15:08	06/19/14 16:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	113	15.8	2	06/18/14 15:08	06/19/14 16:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	113	26.6	2	06/18/14 15:08	06/19/14 16:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	113	22.5	2	06/18/14 15:08	06/19/14 16:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	113	23.0	2	06/18/14 15:08	06/19/14 16:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	113	22.4	2	06/18/14 15:08	06/19/14 16:54	156-60-5	
Dichlorofluoromethane	ND	ug/kg	1130	564	2	06/18/14 15:08	06/19/14 16:54	75-43-4	
1,2-Dichloropropane	ND	ug/kg	113	18.1	2	06/18/14 15:08	06/19/14 16:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	451	15.1	2	06/18/14 15:08	06/19/14 16:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	113	18.4	2	06/18/14 15:08	06/19/14 16:54	563-58-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-2 1.5' **Lab ID:** 10270417018 Collected: 06/11/14 08:05 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
cis-1,3-Dichloropropene	ND	ug/kg	113	14.2	2	06/18/14 15:08	06/19/14 16:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	113	15.9	2	06/18/14 15:08	06/19/14 16:54	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	451	23.9	2	06/18/14 15:08	06/19/14 16:54	60-29-7	
Ethylbenzene	ND	ug/kg	113	14.2	2	06/18/14 15:08	06/19/14 16:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	564	282	2	06/18/14 15:08	06/19/14 16:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	113	16.4	2	06/18/14 15:08	06/19/14 16:54	99-87-6	
Methylene Chloride	ND	ug/kg	451	226	2	06/18/14 15:08	06/19/14 16:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	564	282	2	06/18/14 15:08	06/19/14 16:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	1634-04-4	
Naphthalene	ND	ug/kg	451	226	2	06/18/14 15:08	06/19/14 16:54	91-20-3	
n-Propylbenzene	ND	ug/kg	113	13.7	2	06/18/14 15:08	06/19/14 16:54	103-65-1	
Styrene	ND	ug/kg	113	16.8	2	06/18/14 15:08	06/19/14 16:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	113	15.5	2	06/18/14 15:08	06/19/14 16:54	79-34-5	
Tetrachloroethene	ND	ug/kg	113	40.7	2	06/18/14 15:08	06/19/14 16:54	127-18-4	
Tetrahydrofuran	ND	ug/kg	4510	144	2	06/18/14 15:08	06/19/14 16:54	109-99-9	
Toluene	259	ug/kg	113	15.3	2	06/18/14 15:08	06/19/14 16:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	113	26.8	2	06/18/14 15:08	06/19/14 16:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	113	20.5	2	06/18/14 15:08	06/19/14 16:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	113	19.1	2	06/18/14 15:08	06/19/14 16:54	79-00-5	
Trichloroethene	4680	ug/kg	113	14.0	2	06/18/14 15:08	06/19/14 16:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	451	20.1	2	06/18/14 15:08	06/19/14 16:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	451	15.0	2	06/18/14 15:08	06/19/14 16:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	451	47.1	2	06/18/14 15:08	06/19/14 16:54	76-13-1	
1,2,4-Trimethylbenzene	189	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	113	56.4	2	06/18/14 15:08	06/19/14 16:54	108-67-8	
Vinyl chloride	ND	ug/kg	45.1	16.7	2	06/18/14 15:08	06/19/14 16:54	75-01-4	
Xylene (Total)	685	ug/kg	338	44.3	2	06/18/14 15:08	06/19/14 16:54	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104 %.		74-125		2	06/18/14 15:08	06/19/14 16:54	17060-07-0	
Toluene-d8 (S)	102 %.		75-125		2	06/18/14 15:08	06/19/14 16:54	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		75-125		2	06/18/14 15:08	06/19/14 16:54	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-3 3' **Lab ID: 10270417019** Collected: 06/11/14 08:10 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.3	17.4	1	06/13/14 07:53	06/18/14 03:41	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.3	5.8	1	06/13/14 07:53	06/18/14 03:41	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.3	9.3	1	06/13/14 07:53	06/18/14 03:41	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.3	7.0	1	06/13/14 07:53	06/18/14 03:41	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.3	8.1	1	06/13/14 07:53	06/18/14 03:41	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	38.3	8.1	1	06/13/14 07:53	06/18/14 03:41	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	38.3	17.4	1	06/13/14 07:53	06/18/14 03:41	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	38.3	7.0	1	06/13/14 07:53	06/18/14 03:41	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	38.3	5.8	1	06/13/14 07:53	06/18/14 03:41	11100-14-4	
Surrogates									
Tetrachloro-m-xylene (S)	78 %.		50-128		1	06/13/14 07:53	06/18/14 03:41	877-09-8	
Decachlorobiphenyl (S)	74 %.		55-130		1	06/13/14 07:53	06/18/14 03:41	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	ND	mg/kg	10.6	1.6	1	06/16/14 09:30	06/17/14 10:03		
Surrogates									
n-Triacontane (S)	88 %.		50-150		1	06/16/14 09:30	06/17/14 10:03	638-68-6	
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	11.6	5.8	1	06/21/14 00:00	06/22/14 00:57		
Surrogates									
a,a,a-Trifluorotoluene (S)	104 %.		80-125		1	06/21/14 00:00	06/22/14 00:57	98-08-8	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	0.82	0.24	1	06/13/14 15:05	06/14/14 02:45	7440-38-2	
Lead	35.8	mg/kg	0.82	0.061	1	06/13/14 15:05	06/14/14 02:45	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	13.7	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	83-32-9	
Acenaphthylene	ND	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	208-96-8	
Anthracene	ND	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	120-12-7	
Benzo(a)anthracene	21.8	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	56-55-3	
Benzo(a)pyrene	21.1	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	50-32-8	
Benzo(b)fluoranthene	25.0	ug/kg	11.6	0.32	1	06/13/14 12:20	06/19/14 09:22	205-99-2	
Benzo(g,h,i)perylene	12.7	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	191-24-2	
Benzo(k)fluoranthene	13.4	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	207-08-9	
Chrysene	22.1	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	53-70-3	
Fluoranthene	42.4	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	206-44-0	
Fluorene	ND	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	86-73-7	
Indeno(1,2,3-cd)pyrene	11.8	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	193-39-5	
Naphthalene	ND	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-3 3' **Lab ID:** 10270417019 Collected: 06/11/14 08:10 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Phenanthrene	32.4	ug/kg	11.6	5.8	1	06/13/14 12:20	06/19/14 09:22	85-01-8	
Pyrene	39.9	ug/kg	11.6	0.27	1	06/13/14 12:20	06/19/14 09:22	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	28.6	ug/kg	11.6		1	06/13/14 12:20	06/19/14 09:22		
Surrogates									
2-Fluorobiphenyl (S)	76 %.		30-150		1	06/13/14 12:20	06/19/14 09:22	321-60-8	
Terphenyl-d14 (S)	82 %.		30-150		1	06/13/14 12:20	06/19/14 09:22	1718-51-0	
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1130	566	1	06/18/14 15:08	06/19/14 17:12	67-64-1	
Allyl chloride	ND	ug/kg	226	7.4	1	06/18/14 15:08	06/19/14 17:12	107-05-1	
Benzene	ND	ug/kg	22.6	11.3	1	06/18/14 15:08	06/19/14 17:12	71-43-2	
Bromobenzene	ND	ug/kg	56.6	9.8	1	06/18/14 15:08	06/19/14 17:12	108-86-1	
Bromochloromethane	ND	ug/kg	56.6	7.7	1	06/18/14 15:08	06/19/14 17:12	74-97-5	
Bromodichloromethane	ND	ug/kg	56.6	10.1	1	06/18/14 15:08	06/19/14 17:12	75-27-4	
Bromoform	ND	ug/kg	226	113	1	06/18/14 15:08	06/19/14 17:12	75-25-2	
Bromomethane	ND	ug/kg	566	283	1	06/18/14 15:08	06/19/14 17:12	74-83-9	
2-Butanone (MEK)	ND	ug/kg	283	141	1	06/18/14 15:08	06/19/14 17:12	78-93-3	
n-Butylbenzene	ND	ug/kg	56.6	6.9	1	06/18/14 15:08	06/19/14 17:12	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.6	6.7	1	06/18/14 15:08	06/19/14 17:12	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	98-06-6	
Carbon tetrachloride	ND	ug/kg	56.6	9.1	1	06/18/14 15:08	06/19/14 17:12	56-23-5	
Chlorobenzene	ND	ug/kg	56.6	8.7	1	06/18/14 15:08	06/19/14 17:12	108-90-7	
Chloroethane	ND	ug/kg	566	14.3	1	06/18/14 15:08	06/19/14 17:12	75-00-3	
Chloroform	ND	ug/kg	56.6	8.6	1	06/18/14 15:08	06/19/14 17:12	67-66-3	
Chloromethane	ND	ug/kg	226	10.3	1	06/18/14 15:08	06/19/14 17:12	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	566	30.0	1	06/18/14 15:08	06/19/14 17:12	96-12-8	
Dibromochloromethane	ND	ug/kg	56.6	12.2	1	06/18/14 15:08	06/19/14 17:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.6	7.0	1	06/18/14 15:08	06/19/14 17:12	106-93-4	
Dibromomethane	ND	ug/kg	56.6	15.9	1	06/18/14 15:08	06/19/14 17:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	226	26.1	1	06/18/14 15:08	06/19/14 17:12	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.6	7.9	1	06/18/14 15:08	06/19/14 17:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.6	13.4	1	06/18/14 15:08	06/19/14 17:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	56.6	11.3	1	06/18/14 15:08	06/19/14 17:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	56.6	11.5	1	06/18/14 15:08	06/19/14 17:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.6	11.2	1	06/18/14 15:08	06/19/14 17:12	156-60-5	
Dichlorofluoromethane	ND	ug/kg	566	283	1	06/18/14 15:08	06/19/14 17:12	75-43-4	
1,2-Dichloropropane	ND	ug/kg	56.6	9.1	1	06/18/14 15:08	06/19/14 17:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	226	7.6	1	06/18/14 15:08	06/19/14 17:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	56.6	9.2	1	06/18/14 15:08	06/19/14 17:12	563-58-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-3 3' **Lab ID: 10270417019** Collected: 06/11/14 08:10 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
cis-1,3-Dichloropropene	ND	ug/kg	56.6	7.1	1	06/18/14 15:08	06/19/14 17:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	56.6	8.0	1	06/18/14 15:08	06/19/14 17:12	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	226	12.0	1	06/18/14 15:08	06/19/14 17:12	60-29-7	
Ethylbenzene	ND	ug/kg	56.6	7.1	1	06/18/14 15:08	06/19/14 17:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	283	141	1	06/18/14 15:08	06/19/14 17:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	98-82-8	
p-Isopropyltoluene	ND	ug/kg	56.6	8.2	1	06/18/14 15:08	06/19/14 17:12	99-87-6	
Methylene Chloride	ND	ug/kg	226	113	1	06/18/14 15:08	06/19/14 17:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	283	141	1	06/18/14 15:08	06/19/14 17:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	1634-04-4	
Naphthalene	ND	ug/kg	226	113	1	06/18/14 15:08	06/19/14 17:12	91-20-3	
n-Propylbenzene	ND	ug/kg	56.6	6.9	1	06/18/14 15:08	06/19/14 17:12	103-65-1	
Styrene	ND	ug/kg	56.6	8.5	1	06/18/14 15:08	06/19/14 17:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.6	7.8	1	06/18/14 15:08	06/19/14 17:12	79-34-5	
Tetrachloroethene	ND	ug/kg	56.6	20.4	1	06/18/14 15:08	06/19/14 17:12	127-18-4	
Tetrahydrofuran	ND	ug/kg	2260	72.3	1	06/18/14 15:08	06/19/14 17:12	109-99-9	
Toluene	ND	ug/kg	56.6	7.7	1	06/18/14 15:08	06/19/14 17:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.6	13.5	1	06/18/14 15:08	06/19/14 17:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	56.6	10.3	1	06/18/14 15:08	06/19/14 17:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.6	9.6	1	06/18/14 15:08	06/19/14 17:12	79-00-5	
Trichloroethene	ND	ug/kg	56.6	7.0	1	06/18/14 15:08	06/19/14 17:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	226	10.1	1	06/18/14 15:08	06/19/14 17:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	226	7.5	1	06/18/14 15:08	06/19/14 17:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	226	23.7	1	06/18/14 15:08	06/19/14 17:12	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.6	28.3	1	06/18/14 15:08	06/19/14 17:12	108-67-8	
Vinyl chloride	ND	ug/kg	22.6	8.4	1	06/18/14 15:08	06/19/14 17:12	75-01-4	
Xylene (Total)	ND	ug/kg	170	22.2	1	06/18/14 15:08	06/19/14 17:12	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104 %.		74-125		1	06/18/14 15:08	06/19/14 17:12	17060-07-0	
Toluene-d8 (S)	102 %.		75-125		1	06/18/14 15:08	06/19/14 17:12	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		75-125		1	06/18/14 15:08	06/19/14 17:12	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Lab Project No.: 10270417

Sample: HA-4 3' **Lab ID: 10270417020** Collected: 06/11/14 08:15 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.9	17.2	1	06/13/14 07:53	06/18/14 03:57	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.9	5.7	1	06/13/14 07:53	06/18/14 03:57	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.9	9.2	1	06/13/14 07:53	06/18/14 03:57	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.9	6.9	1	06/13/14 07:53	06/18/14 03:57	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.9	8.0	1	06/13/14 07:53	06/18/14 03:57	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	37.9	8.0	1	06/13/14 07:53	06/18/14 03:57	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.9	17.2	1	06/13/14 07:53	06/18/14 03:57	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	37.9	6.9	1	06/13/14 07:53	06/18/14 03:57	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	37.9	5.7	1	06/13/14 07:53	06/18/14 03:57	11100-14-4	
Surrogates									
Tetrachloro-m-xylene (S)	78 %.		50-128		1	06/13/14 07:53	06/18/14 03:57	877-09-8	
Decachlorobiphenyl (S)	76 %.		55-130		1	06/13/14 07:53	06/18/14 03:57	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	ND	mg/kg	11.3	1.7	1	06/16/14 09:30	06/17/14 09:42		
Surrogates									
n-Triacontane (S)	84 %.		50-150		1	06/16/14 09:30	06/17/14 09:42	638-68-6	
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	11.6	5.8	1	06/21/14 00:00	06/22/14 01:16		
Surrogates									
a,a,a-Trifluorotoluene (S)	103 %.		80-125		1	06/21/14 00:00	06/22/14 01:16	98-08-8	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	0.84	0.24	1	06/13/14 15:05	06/14/14 02:51	7440-38-2	
Lead	7.6	mg/kg	0.84	0.062	1	06/13/14 15:05	06/14/14 02:51	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	13.1	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	83-32-9	
Acenaphthylene	ND	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	208-96-8	
Anthracene	16.6	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	120-12-7	
Benzo(a)anthracene	40.2	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	56-55-3	
Benzo(a)pyrene	42.0	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	50-32-8	
Benzo(b)fluoranthene	25.4	ug/kg	11.5	0.32	1	06/13/14 12:20	06/19/14 10:04	205-99-2	
Benzo(g,h,i)perylene	24.8	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	191-24-2	
Benzo(k)fluoranthene	19.9	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	207-08-9	
Chrysene	39.1	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	53-70-3	
Fluoranthene	68.3	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	206-44-0	
Fluorene	ND	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	86-73-7	
Indeno(1,2,3-cd)pyrene	20.3	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	193-39-5	
Naphthalene	ND	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-4 3' **Lab ID:** 10270417020 Collected: 06/11/14 08:15 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Phenanthrene	ND	ug/kg	11.5	5.8	1	06/13/14 12:20	06/19/14 10:04	85-01-8	
Pyrene	87.4	ug/kg	11.5	0.26	1	06/13/14 12:20	06/19/14 10:04	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	54.9	ug/kg	11.5		1	06/13/14 12:20	06/19/14 10:04		
Surrogates									
2-Fluorobiphenyl (S)	78 %.		30-150		1	06/13/14 12:20	06/19/14 10:04	321-60-8	
Terphenyl-d14 (S)	80 %.		30-150		1	06/13/14 12:20	06/19/14 10:04	1718-51-0	
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1120	561	1	06/18/14 15:08	06/19/14 17:29	67-64-1	
Allyl chloride	ND	ug/kg	224	7.4	1	06/18/14 15:08	06/19/14 17:29	107-05-1	
Benzene	ND	ug/kg	22.4	11.2	1	06/18/14 15:08	06/19/14 17:29	71-43-2	
Bromobenzene	ND	ug/kg	56.1	9.7	1	06/18/14 15:08	06/19/14 17:29	108-86-1	
Bromochloromethane	ND	ug/kg	56.1	7.6	1	06/18/14 15:08	06/19/14 17:29	74-97-5	
Bromodichloromethane	ND	ug/kg	56.1	10	1	06/18/14 15:08	06/19/14 17:29	75-27-4	
Bromoform	ND	ug/kg	224	112	1	06/18/14 15:08	06/19/14 17:29	75-25-2	
Bromomethane	ND	ug/kg	561	280	1	06/18/14 15:08	06/19/14 17:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	280	140	1	06/18/14 15:08	06/19/14 17:29	78-93-3	
n-Butylbenzene	ND	ug/kg	56.1	6.8	1	06/18/14 15:08	06/19/14 17:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.1	6.6	1	06/18/14 15:08	06/19/14 17:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	98-06-6	
Carbon tetrachloride	ND	ug/kg	56.1	9.1	1	06/18/14 15:08	06/19/14 17:29	56-23-5	
Chlorobenzene	ND	ug/kg	56.1	8.6	1	06/18/14 15:08	06/19/14 17:29	108-90-7	
Chloroethane	ND	ug/kg	561	14.1	1	06/18/14 15:08	06/19/14 17:29	75-00-3	
Chloroform	ND	ug/kg	56.1	8.5	1	06/18/14 15:08	06/19/14 17:29	67-66-3	
Chloromethane	ND	ug/kg	224	10.2	1	06/18/14 15:08	06/19/14 17:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	561	29.7	1	06/18/14 15:08	06/19/14 17:29	96-12-8	
Dibromochloromethane	ND	ug/kg	56.1	12.1	1	06/18/14 15:08	06/19/14 17:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.1	6.9	1	06/18/14 15:08	06/19/14 17:29	106-93-4	
Dibromomethane	ND	ug/kg	56.1	15.7	1	06/18/14 15:08	06/19/14 17:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	224	25.9	1	06/18/14 15:08	06/19/14 17:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.1	7.8	1	06/18/14 15:08	06/19/14 17:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.1	13.2	1	06/18/14 15:08	06/19/14 17:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	56.1	11.2	1	06/18/14 15:08	06/19/14 17:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	56.1	11.4	1	06/18/14 15:08	06/19/14 17:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.1	11.1	1	06/18/14 15:08	06/19/14 17:29	156-60-5	
Dichlorofluoromethane	ND	ug/kg	561	280	1	06/18/14 15:08	06/19/14 17:29	75-43-4	
1,2-Dichloropropane	ND	ug/kg	56.1	9.0	1	06/18/14 15:08	06/19/14 17:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	224	7.5	1	06/18/14 15:08	06/19/14 17:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	56.1	9.2	1	06/18/14 15:08	06/19/14 17:29	563-58-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-4 3' **Lab ID: 10270417020** Collected: 06/11/14 08:15 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level			Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
cis-1,3-Dichloropropene	ND	ug/kg	56.1	7.0	1	06/18/14 15:08	06/19/14 17:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	56.1	7.9	1	06/18/14 15:08	06/19/14 17:29	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	224	11.9	1	06/18/14 15:08	06/19/14 17:29	60-29-7	
Ethylbenzene	ND	ug/kg	56.1	7.0	1	06/18/14 15:08	06/19/14 17:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	280	140	1	06/18/14 15:08	06/19/14 17:29	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	98-82-8	
p-Isopropyltoluene	ND	ug/kg	56.1	8.1	1	06/18/14 15:08	06/19/14 17:29	99-87-6	
Methylene Chloride	ND	ug/kg	224	112	1	06/18/14 15:08	06/19/14 17:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	280	140	1	06/18/14 15:08	06/19/14 17:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	1634-04-4	
Naphthalene	ND	ug/kg	224	112	1	06/18/14 15:08	06/19/14 17:29	91-20-3	
n-Propylbenzene	ND	ug/kg	56.1	6.8	1	06/18/14 15:08	06/19/14 17:29	103-65-1	
Styrene	ND	ug/kg	56.1	8.4	1	06/18/14 15:08	06/19/14 17:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.1	7.7	1	06/18/14 15:08	06/19/14 17:29	79-34-5	
Tetrachloroethene	ND	ug/kg	56.1	20.3	1	06/18/14 15:08	06/19/14 17:29	127-18-4	
Tetrahydrofuran	ND	ug/kg	2240	71.7	1	06/18/14 15:08	06/19/14 17:29	109-99-9	
Toluene	ND	ug/kg	56.1	7.6	1	06/18/14 15:08	06/19/14 17:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.1	13.4	1	06/18/14 15:08	06/19/14 17:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	56.1	10.2	1	06/18/14 15:08	06/19/14 17:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.1	9.5	1	06/18/14 15:08	06/19/14 17:29	79-00-5	
Trichloroethene	329	ug/kg	56.1	7.0	1	06/18/14 15:08	06/19/14 17:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	224	10	1	06/18/14 15:08	06/19/14 17:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	224	7.4	1	06/18/14 15:08	06/19/14 17:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	224	23.4	1	06/18/14 15:08	06/19/14 17:29	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.1	28.0	1	06/18/14 15:08	06/19/14 17:29	108-67-8	
Vinyl chloride	ND	ug/kg	22.4	8.3	1	06/18/14 15:08	06/19/14 17:29	75-01-4	
Xylene (Total)	ND	ug/kg	168	22.0	1	06/18/14 15:08	06/19/14 17:29	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	105 %.		74-125		1	06/18/14 15:08	06/19/14 17:29	17060-07-0	
Toluene-d8 (S)	100 %.		75-125		1	06/18/14 15:08	06/19/14 17:29	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125		1	06/18/14 15:08	06/19/14 17:29	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-5 3' **Lab ID:** 10270417021 Collected: 06/11/14 08:20 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.8	17.2	1	06/13/14 07:53	06/18/14 04:13	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.8	5.7	1	06/13/14 07:53	06/18/14 04:13	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.8	9.2	1	06/13/14 07:53	06/18/14 04:13	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.8	6.9	1	06/13/14 07:53	06/18/14 04:13	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.8	8.0	1	06/13/14 07:53	06/18/14 04:13	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	37.8	8.0	1	06/13/14 07:53	06/18/14 04:13	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.8	17.2	1	06/13/14 07:53	06/18/14 04:13	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	37.8	6.9	1	06/13/14 07:53	06/18/14 04:13	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	37.8	5.7	1	06/13/14 07:53	06/18/14 04:13	11100-14-4	
Surrogates									
Tetrachloro-m-xylene (S)	75 %.		50-128		1	06/13/14 07:53	06/18/14 04:13	877-09-8	
Decachlorobiphenyl (S)	77 %.		55-130		1	06/13/14 07:53	06/18/14 04:13	2051-24-3	
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	ND	mg/kg	9.9	1.5	1	06/16/14 09:30	06/17/14 09:27		
Surrogates									
n-Triacontane (S)	84 %.		50-150		1	06/16/14 09:30	06/17/14 09:27	638-68-6	
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	ND	mg/kg	11.9	6.0	1	06/21/14 00:00	06/22/14 04:31		
Surrogates									
a,a,a-Trifluorotoluene (S)	104 %.		80-125		1	06/21/14 00:00	06/22/14 04:31	98-08-8	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050									
Arsenic	ND	mg/kg	0.78	0.23	1	06/13/14 15:05	06/14/14 02:58	7440-38-2	
Lead	20.6	mg/kg	0.78	0.058	1	06/13/14 15:05	06/14/14 02:58	7439-92-1	
Dry Weight									
Analytical Method: ASTM D2974									
Percent Moisture	12.7	%	0.10	0.10	1		06/12/14 00:00		
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550									
Acenaphthene	ND	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	83-32-9	
Acenaphthylene	ND	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	208-96-8	
Anthracene	15.6	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	120-12-7	
Benzo(a)anthracene	40.5	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	56-55-3	
Benzo(a)pyrene	42.6	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	50-32-8	
Benzo(b)fluoranthene	47.7	ug/kg	11.4	0.32	1	06/13/14 12:20	06/19/14 10:25	205-99-2	
Benzo(g,h,i)perylene	26.5	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	191-24-2	
Benzo(k)fluoranthene	22.2	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	207-08-9	
Chrysene	40.6	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	53-70-3	
Fluoranthene	71.5	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	206-44-0	
Fluorene	ND	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	86-73-7	
Indeno(1,2,3-cd)pyrene	21.2	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	193-39-5	
Naphthalene	ND	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-5 3' **Lab ID:** 10270417021 **Collected:** 06/11/14 08:20 **Received:** 06/11/14 17:37 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3550							
Phenanthrene	46.7	ug/kg	11.4	5.7	1	06/13/14 12:20	06/19/14 10:25	85-01-8	
Pyrene	81.0	ug/kg	11.4	0.26	1	06/13/14 12:20	06/19/14 10:25	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	56.2	ug/kg	11.4		1	06/13/14 12:20	06/19/14 10:25		
Surrogates									
2-Fluorobiphenyl (S)	73	%	30-150		1	06/13/14 12:20	06/19/14 10:25	321-60-8	
Terphenyl-d14 (S)	77	%	30-150		1	06/13/14 12:20	06/19/14 10:25	1718-51-0	
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1180	592	1	06/18/14 15:08	06/19/14 17:47	67-64-1	
Allyl chloride	ND	ug/kg	237	7.8	1	06/18/14 15:08	06/19/14 17:47	107-05-1	
Benzene	ND	ug/kg	23.7	11.8	1	06/18/14 15:08	06/19/14 17:47	71-43-2	
Bromobenzene	ND	ug/kg	59.2	10.3	1	06/18/14 15:08	06/19/14 17:47	108-86-1	
Bromochloromethane	ND	ug/kg	59.2	8.1	1	06/18/14 15:08	06/19/14 17:47	74-97-5	
Bromodichloromethane	ND	ug/kg	59.2	10.5	1	06/18/14 15:08	06/19/14 17:47	75-27-4	
Bromoform	ND	ug/kg	237	118	1	06/18/14 15:08	06/19/14 17:47	75-25-2	
Bromomethane	ND	ug/kg	592	296	1	06/18/14 15:08	06/19/14 17:47	74-83-9	
2-Butanone (MEK)	ND	ug/kg	296	148	1	06/18/14 15:08	06/19/14 17:47	78-93-3	
n-Butylbenzene	ND	ug/kg	59.2	7.2	1	06/18/14 15:08	06/19/14 17:47	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.2	7.0	1	06/18/14 15:08	06/19/14 17:47	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.2	9.6	1	06/18/14 15:08	06/19/14 17:47	56-23-5	
Chlorobenzene	ND	ug/kg	59.2	9.1	1	06/18/14 15:08	06/19/14 17:47	108-90-7	
Chloroethane	ND	ug/kg	592	14.9	1	06/18/14 15:08	06/19/14 17:47	75-00-3	
Chloroform	ND	ug/kg	59.2	9.0	1	06/18/14 15:08	06/19/14 17:47	67-66-3	
Chloromethane	ND	ug/kg	237	10.8	1	06/18/14 15:08	06/19/14 17:47	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	592	31.4	1	06/18/14 15:08	06/19/14 17:47	96-12-8	
Dibromochloromethane	ND	ug/kg	59.2	12.8	1	06/18/14 15:08	06/19/14 17:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.2	7.3	1	06/18/14 15:08	06/19/14 17:47	106-93-4	
Dibromomethane	ND	ug/kg	59.2	16.6	1	06/18/14 15:08	06/19/14 17:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	237	27.4	1	06/18/14 15:08	06/19/14 17:47	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.2	8.3	1	06/18/14 15:08	06/19/14 17:47	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.2	14.0	1	06/18/14 15:08	06/19/14 17:47	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.2	11.8	1	06/18/14 15:08	06/19/14 17:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.2	12.1	1	06/18/14 15:08	06/19/14 17:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.2	11.7	1	06/18/14 15:08	06/19/14 17:47	156-60-5	
Dichlorofluoromethane	ND	ug/kg	592	296	1	06/18/14 15:08	06/19/14 17:47	75-43-4	
1,2-Dichloropropane	ND	ug/kg	59.2	9.5	1	06/18/14 15:08	06/19/14 17:47	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	142-28-9	
2,2-Dichloropropane	ND	ug/kg	237	7.9	1	06/18/14 15:08	06/19/14 17:47	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.2	9.7	1	06/18/14 15:08	06/19/14 17:47	563-58-6	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: HA-5 3' **Lab ID: 10270417021** Collected: 06/11/14 08:20 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
cis-1,3-Dichloropropene	ND	ug/kg	59.2	7.4	1	06/18/14 15:08	06/19/14 17:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	59.2	8.3	1	06/18/14 15:08	06/19/14 17:47	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	237	12.6	1	06/18/14 15:08	06/19/14 17:47	60-29-7	
Ethylbenzene	ND	ug/kg	59.2	7.4	1	06/18/14 15:08	06/19/14 17:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	296	148	1	06/18/14 15:08	06/19/14 17:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.2	8.6	1	06/18/14 15:08	06/19/14 17:47	99-87-6	
Methylene Chloride	ND	ug/kg	237	118	1	06/18/14 15:08	06/19/14 17:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	296	148	1	06/18/14 15:08	06/19/14 17:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	1634-04-4	
Naphthalene	ND	ug/kg	237	118	1	06/18/14 15:08	06/19/14 17:47	91-20-3	
n-Propylbenzene	ND	ug/kg	59.2	7.2	1	06/18/14 15:08	06/19/14 17:47	103-65-1	
Styrene	ND	ug/kg	59.2	8.8	1	06/18/14 15:08	06/19/14 17:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.2	8.1	1	06/18/14 15:08	06/19/14 17:47	79-34-5	
Tetrachloroethene	98.5	ug/kg	59.2	21.4	1	06/18/14 15:08	06/19/14 17:47	127-18-4	
Tetrahydrofuran	ND	ug/kg	2370	75.7	1	06/18/14 15:08	06/19/14 17:47	109-99-9	
Toluene	ND	ug/kg	59.2	8.1	1	06/18/14 15:08	06/19/14 17:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.2	14.1	1	06/18/14 15:08	06/19/14 17:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.2	10.8	1	06/18/14 15:08	06/19/14 17:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.2	10.0	1	06/18/14 15:08	06/19/14 17:47	79-00-5	
Trichloroethene	315	ug/kg	59.2	7.4	1	06/18/14 15:08	06/19/14 17:47	79-01-6	
Trichlorofluoromethane	ND	ug/kg	237	10.5	1	06/18/14 15:08	06/19/14 17:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	237	7.9	1	06/18/14 15:08	06/19/14 17:47	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	237	24.7	1	06/18/14 15:08	06/19/14 17:47	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.2	29.6	1	06/18/14 15:08	06/19/14 17:47	108-67-8	
Vinyl chloride	ND	ug/kg	23.7	8.8	1	06/18/14 15:08	06/19/14 17:47	75-01-4	
Xylene (Total)	ND	ug/kg	178	23.3	1	06/18/14 15:08	06/19/14 17:47	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	105 %.		74-125		1	06/18/14 15:08	06/19/14 17:47	17060-07-0	
Toluene-d8 (S)	100 %.		75-125		1	06/18/14 15:08	06/19/14 17:47	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		75-125		1	06/18/14 15:08	06/19/14 17:47	460-00-4	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: TRIP BLANK **Lab ID: 10270417022** Collected: 06/11/14 00:00 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1000	500	1	06/18/14 15:08	06/19/14 12:46	67-64-1	
Allyl chloride	ND	ug/kg	200	6.6	1	06/18/14 15:08	06/19/14 12:46	107-05-1	
Benzene	ND	ug/kg	20.0	10.0	1	06/18/14 15:08	06/19/14 12:46	71-43-2	
Bromobenzene	ND	ug/kg	50.0	8.7	1	06/18/14 15:08	06/19/14 12:46	108-86-1	
Bromochloromethane	ND	ug/kg	50.0	6.8	1	06/18/14 15:08	06/19/14 12:46	74-97-5	
Bromodichloromethane	ND	ug/kg	50.0	8.9	1	06/18/14 15:08	06/19/14 12:46	75-27-4	
Bromoform	ND	ug/kg	200	100	1	06/18/14 15:08	06/19/14 12:46	75-25-2	
Bromomethane	ND	ug/kg	500	250	1	06/18/14 15:08	06/19/14 12:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	125	1	06/18/14 15:08	06/19/14 12:46	78-93-3	
n-Butylbenzene	ND	ug/kg	50.0	6.1	1	06/18/14 15:08	06/19/14 12:46	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	5.9	1	06/18/14 15:08	06/19/14 12:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	98-06-6	
Carbon tetrachloride	ND	ug/kg	50.0	8.1	1	06/18/14 15:08	06/19/14 12:46	56-23-5	
Chlorobenzene	ND	ug/kg	50.0	7.7	1	06/18/14 15:08	06/19/14 12:46	108-90-7	
Chloroethane	ND	ug/kg	500	12.6	1	06/18/14 15:08	06/19/14 12:46	75-00-3	
Chloroform	ND	ug/kg	50.0	7.6	1	06/18/14 15:08	06/19/14 12:46	67-66-3	
Chloromethane	ND	ug/kg	200	9.1	1	06/18/14 15:08	06/19/14 12:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	26.5	1	06/18/14 15:08	06/19/14 12:46	96-12-8	
Dibromochloromethane	ND	ug/kg	50.0	10.8	1	06/18/14 15:08	06/19/14 12:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	6.2	1	06/18/14 15:08	06/19/14 12:46	106-93-4	
Dibromomethane	ND	ug/kg	50.0	14.0	1	06/18/14 15:08	06/19/14 12:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	23.1	1	06/18/14 15:08	06/19/14 12:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.0	7.0	1	06/18/14 15:08	06/19/14 12:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	11.8	1	06/18/14 15:08	06/19/14 12:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	50.0	10	1	06/18/14 15:08	06/19/14 12:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.0	10.2	1	06/18/14 15:08	06/19/14 12:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.0	9.9	1	06/18/14 15:08	06/19/14 12:46	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	250	1	06/18/14 15:08	06/19/14 12:46	75-43-4	
1,2-Dichloropropane	ND	ug/kg	50.0	8.0	1	06/18/14 15:08	06/19/14 12:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	6.7	1	06/18/14 15:08	06/19/14 12:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	50.0	8.2	1	06/18/14 15:08	06/19/14 12:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.0	6.3	1	06/18/14 15:08	06/19/14 12:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	50.0	7.0	1	06/18/14 15:08	06/19/14 12:46	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	200	10.6	1	06/18/14 15:08	06/19/14 12:46	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	6.3	1	06/18/14 15:08	06/19/14 12:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	250	125	1	06/18/14 15:08	06/19/14 12:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	7.2	1	06/18/14 15:08	06/19/14 12:46	99-87-6	
Methylene Chloride	ND	ug/kg	200	100	1	06/18/14 15:08	06/19/14 12:46	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Sample: TRIP BLANK **Lab ID: 10270417022** Collected: 06/11/14 00:00 Received: 06/11/14 17:37 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Med Level		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	125	1	06/18/14 15:08	06/19/14 12:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	1634-04-4	
Naphthalene	ND	ug/kg	200	100	1	06/18/14 15:08	06/19/14 12:46	91-20-3	
n-Propylbenzene	ND	ug/kg	50.0	6.1	1	06/18/14 15:08	06/19/14 12:46	103-65-1	
Styrene	ND	ug/kg	50.0	7.5	1	06/18/14 15:08	06/19/14 12:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	6.9	1	06/18/14 15:08	06/19/14 12:46	79-34-5	
Tetrachloroethene	ND	ug/kg	50.0	18.0	1	06/18/14 15:08	06/19/14 12:46	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	63.9	1	06/18/14 15:08	06/19/14 12:46	109-99-9	
Toluene	ND	ug/kg	50.0	6.8	1	06/18/14 15:08	06/19/14 12:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	11.9	1	06/18/14 15:08	06/19/14 12:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	50.0	9.1	1	06/18/14 15:08	06/19/14 12:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	8.5	1	06/18/14 15:08	06/19/14 12:46	79-00-5	
Trichloroethene	ND	ug/kg	50.0	6.2	1	06/18/14 15:08	06/19/14 12:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	8.9	1	06/18/14 15:08	06/19/14 12:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	200	6.6	1	06/18/14 15:08	06/19/14 12:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	20.9	1	06/18/14 15:08	06/19/14 12:46	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	25.0	1	06/18/14 15:08	06/19/14 12:46	108-67-8	
Vinyl chloride	ND	ug/kg	20.0	7.4	1	06/18/14 15:08	06/19/14 12:46	75-01-4	
Xylene (Total)	ND	ug/kg	150	19.6	1	06/18/14 15:08	06/19/14 12:46	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103 %.		74-125		1	06/18/14 15:08	06/19/14 12:46	17060-07-0	
Toluene-d8 (S)	100 %.		75-125		1	06/18/14 15:08	06/19/14 12:46	2037-26-5	
4-Bromofluorobenzene (S)	103 %.		75-125		1	06/18/14 15:08	06/19/14 12:46	460-00-4	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch:	GCV/12196	Analysis Method:	WI MOD GRO
QC Batch Method:	TPH GRO/PVOC WI ext.	Analysis Description:	WIGRO Solid GCV
Associated Lab Samples:	10270417001		

METHOD BLANK: 1710644 Matrix: Solid

Associated Lab Samples: 10270417001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	06/20/14 07:46	
a,a,a-Trifluorotoluene (S)	%.	101	80-125	06/20/14 07:46	

LABORATORY CONTROL SAMPLE & LCSD: 1710645 1710646

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	51.6	45.6	103	91	80-120	12	20	
a,a,a-Trifluorotoluene (S)	%.				102	107	80-125			

MATRIX SPIKE SAMPLE: 1710840

Parameter	Units	10270417001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	ND	54.7	63.3	116	80-120	
a,a,a-Trifluorotoluene (S)	%.				106	80-125	

SAMPLE DUPLICATE: 1710648

Parameter	Units	10269922016 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	18.2		20	
a,a,a-Trifluorotoluene (S)	%.	105	105	3		

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch: GCV/12205 Analysis Method: WI MOD GRO
 QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
 Associated Lab Samples: 10270417002, 10270417004, 10270417005, 10270417013

METHOD BLANK: 1711549 Matrix: Solid
 Associated Lab Samples: 10270417002, 10270417004, 10270417005, 10270417013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	06/20/14 16:31	
a,a,a-Trifluorotoluene (S)	%.	107	80-125	06/20/14 16:31	

LABORATORY CONTROL SAMPLE & LCSD: 1711550

Parameter	Units	1711551								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	43.8	45.7	88	91	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%.				102	103	80-125			

MATRIX SPIKE SAMPLE: 1711552

Parameter	Units	10270417004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg		277	50.4	317	80	80-120
a,a,a-Trifluorotoluene (S)	%.					98	80-125

SAMPLE DUPLICATE: 1711553

Parameter	Units	10270417005 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	ND		20	
a,a,a-Trifluorotoluene (S)	%.	104	106	1		

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch:	GCV/12217	Analysis Method:	WI MOD GRO
QC Batch Method:	TPH GRO/PVOC WI ext.	Analysis Description:	WIGRO Solid GCV
Associated Lab Samples:	10270417014		

METHOD BLANK: 1712786 Matrix: Solid

Associated Lab Samples: 10270417014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	06/21/14 14:51	
a,a,a-Trifluorotoluene (S)	%.	103	80-125	06/21/14 14:51	

LABORATORY CONTROL SAMPLE & LCSD: 1712787 1712788

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	44.1	45.9	88	92	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%.				103	100	80-125			

MATRIX SPIKE SAMPLE: 1712789

Parameter	Units	10270580002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	ND	64.9	62.0	96	80-120	
a,a,a-Trifluorotoluene (S)	%.				104	80-125	

SAMPLE DUPLICATE: 1712790

Parameter	Units	10270605004 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	ND		20	
a,a,a-Trifluorotoluene (S)	%.	103	103	2		

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch: GCV/12218 Analysis Method: WI MOD GRO
 QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
 Associated Lab Samples: 10270417015, 10270417016, 10270417017, 10270417018, 10270417019, 10270417020, 10270417021

METHOD BLANK: 1713538 Matrix: Solid
 Associated Lab Samples: 10270417015, 10270417016, 10270417017, 10270417018, 10270417019, 10270417020, 10270417021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	06/22/14 00:37	
a,a,a-Trifluorotoluene (S)	%.	104	80-125	06/22/14 00:37	

LABORATORY CONTROL SAMPLE & LCSD: 1713539 1713540

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	44.3	41.9	89	84	80-120	6	20	
a,a,a-Trifluorotoluene (S)	%.				104	104	80-125			

MATRIX SPIKE SAMPLE: 1713541

Parameter	Units	10270417019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	ND	57.5	69.3	120	80-120	
a,a,a-Trifluorotoluene (S)	%.				103	80-125	

SAMPLE DUPLICATE: 1713542

Parameter	Units	10270417020 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	ND		20	
a,a,a-Trifluorotoluene (S)	%.	103	105	5		

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch: MPRP/46600 Analysis Method: EPA 6010C
 QC Batch Method: EPA 3050 Analysis Description: 6010C Solids
 Associated Lab Samples: 10270417001, 10270417003, 10270417004, 10270417005, 10270417006, 10270417007, 10270417008, 10270417009, 10270417010, 10270417011, 10270417012, 10270417013, 10270417014, 10270417015, 10270417017, 10270417018, 10270417019, 10270417020, 10270417021

METHOD BLANK: 1706977 Matrix: Solid
 Associated Lab Samples: 10270417001, 10270417003, 10270417004, 10270417005, 10270417006, 10270417007, 10270417008, 10270417009, 10270417010, 10270417011, 10270417012, 10270417013, 10270417014, 10270417015, 10270417017, 10270417018, 10270417019, 10270417020, 10270417021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.87	06/14/14 00:19	
Lead	mg/kg	ND	0.87	06/14/14 00:19	

LABORATORY CONTROL SAMPLE: 1706978

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	39.1	33.5	86	80-120	
Lead	mg/kg	39.1	35.3	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1706979 1706980

Parameter	Units	10270417001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Arsenic	mg/kg	ND	50.5	42.9	47.0	39.3	93	92	75-125	18	20
Lead	mg/kg	78.6	50.5	42.9	83.4	87.1	10	20	75-125	4	20 M1

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch: MPRP/46583

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 10270417001

SAMPLE DUPLICATE: 1706098

Parameter	Units	10269699001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.21	0.25	13	30	

SAMPLE DUPLICATE: 1706116

Parameter	Units	10270329010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.2	13.3	8	30	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch: MPRP/46584

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 10270417002, 10270417003, 10270417004, 10270417005, 10270417006, 10270417007, 10270417008, 10270417009, 10270417010, 10270417011, 10270417012, 10270417013, 10270417014, 10270417015, 10270417016, 10270417017, 10270417018, 10270417019, 10270417020, 10270417021

SAMPLE DUPLICATE: 1706223

Parameter	Units	10270417003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.1	7.8	9	30	

SAMPLE DUPLICATE: 1706224

Parameter	Units	10270417020 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.1	13.7	4	30	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch: MSV/27469 Analysis Method: EPA 8260
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV 5030 Med Level
 Associated Lab Samples: 10270417001, 10270417004, 10270417005, 10270417007, 10270417008, 10270417010

METHOD BLANK: 1710640 Matrix: Solid
 Associated Lab Samples: 10270417001, 10270417004, 10270417005, 10270417007, 10270417008, 10270417010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	06/18/14 17:20	
1,1,1-Trichloroethane	ug/kg	ND	50.0	06/18/14 17:20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	06/18/14 17:20	
1,1,2-Trichloroethane	ug/kg	ND	50.0	06/18/14 17:20	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	06/18/14 17:20	
1,1-Dichloroethane	ug/kg	ND	50.0	06/18/14 17:20	
1,1-Dichloroethene	ug/kg	ND	50.0	06/18/14 17:20	
1,1-Dichloropropene	ug/kg	ND	50.0	06/18/14 17:20	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	06/18/14 17:20	
1,2,3-Trichloropropane	ug/kg	ND	200	06/18/14 17:20	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	06/18/14 17:20	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	06/18/14 17:20	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	06/18/14 17:20	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	06/18/14 17:20	
1,2-Dichlorobenzene	ug/kg	ND	50.0	06/18/14 17:20	
1,2-Dichloroethane	ug/kg	ND	50.0	06/18/14 17:20	
1,2-Dichloropropane	ug/kg	ND	50.0	06/18/14 17:20	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	06/18/14 17:20	
1,3-Dichlorobenzene	ug/kg	ND	50.0	06/18/14 17:20	
1,3-Dichloropropane	ug/kg	ND	50.0	06/18/14 17:20	
1,4-Dichlorobenzene	ug/kg	ND	50.0	06/18/14 17:20	
2,2-Dichloropropane	ug/kg	ND	200	06/18/14 17:20	
2-Butanone (MEK)	ug/kg	ND	250	06/18/14 17:20	
2-Chlorotoluene	ug/kg	ND	50.0	06/18/14 17:20	
4-Chlorotoluene	ug/kg	ND	50.0	06/18/14 17:20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	06/18/14 17:20	
Acetone	ug/kg	ND	1000	06/18/14 17:20	
Allyl chloride	ug/kg	ND	200	06/18/14 17:20	
Benzene	ug/kg	ND	20.0	06/18/14 17:20	
Bromobenzene	ug/kg	ND	50.0	06/18/14 17:20	
Bromochloromethane	ug/kg	ND	50.0	06/18/14 17:20	
Bromodichloromethane	ug/kg	ND	50.0	06/18/14 17:20	
Bromoform	ug/kg	ND	200	06/18/14 17:20	
Bromomethane	ug/kg	ND	500	06/18/14 17:20	
Carbon tetrachloride	ug/kg	ND	50.0	06/18/14 17:20	
Chlorobenzene	ug/kg	ND	50.0	06/18/14 17:20	
Chloroethane	ug/kg	ND	500	06/18/14 17:20	
Chloroform	ug/kg	ND	50.0	06/18/14 17:20	
Chloromethane	ug/kg	ND	200	06/18/14 17:20	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	06/18/14 17:20	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	06/18/14 17:20	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

METHOD BLANK: 1710640

Matrix: Solid

Associated Lab Samples: 10270417001, 10270417004, 10270417005, 10270417007, 10270417008, 10270417010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	50.0	06/18/14 17:20	
Dibromomethane	ug/kg	ND	50.0	06/18/14 17:20	
Dichlorodifluoromethane	ug/kg	ND	200	06/18/14 17:20	
Dichlorofluoromethane	ug/kg	ND	500	06/18/14 17:20	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	06/18/14 17:20	
Ethylbenzene	ug/kg	ND	50.0	06/18/14 17:20	
Hexachloro-1,3-butadiene	ug/kg	ND	250	06/18/14 17:20	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	06/18/14 17:20	
Methyl-tert-butyl ether	ug/kg	ND	50.0	06/18/14 17:20	
Methylene Chloride	ug/kg	ND	200	06/18/14 17:20	
n-Butylbenzene	ug/kg	ND	50.0	06/18/14 17:20	
n-Propylbenzene	ug/kg	ND	50.0	06/18/14 17:20	
Naphthalene	ug/kg	ND	200	06/18/14 17:20	
p-Isopropyltoluene	ug/kg	ND	50.0	06/18/14 17:20	
sec-Butylbenzene	ug/kg	ND	50.0	06/18/14 17:20	
Styrene	ug/kg	ND	50.0	06/18/14 17:20	
tert-Butylbenzene	ug/kg	ND	50.0	06/18/14 17:20	
Tetrachloroethene	ug/kg	ND	50.0	06/18/14 17:20	
Tetrahydrofuran	ug/kg	ND	2000	06/18/14 17:20	
Toluene	ug/kg	ND	50.0	06/18/14 17:20	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	06/18/14 17:20	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	06/18/14 17:20	
Trichloroethene	ug/kg	ND	50.0	06/18/14 17:20	
Trichlorofluoromethane	ug/kg	ND	200	06/18/14 17:20	
Vinyl chloride	ug/kg	ND	20.0	06/18/14 17:20	
Xylene (Total)	ug/kg	ND	150	06/18/14 17:20	
1,2-Dichloroethane-d4 (S)	%	101	74-125	06/18/14 17:20	
4-Bromofluorobenzene (S)	%	103	75-125	06/18/14 17:20	
Toluene-d8 (S)	%	99	75-125	06/18/14 17:20	

LABORATORY CONTROL SAMPLE: 1710641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	979	98	68-125	
1,1,1-Trichloroethane	ug/kg	1000	993	99	62-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	966	97	61-127	
1,1,2-Trichloroethane	ug/kg	1000	993	99	70-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	820	82	56-149	
1,1-Dichloroethane	ug/kg	1000	1040	104	60-127	
1,1-Dichloroethene	ug/kg	1000	906	91	63-125	
1,1-Dichloropropene	ug/kg	1000	940	94	67-125	
1,2,3-Trichlorobenzene	ug/kg	1000	736	74	63-132	
1,2,3-Trichloropropane	ug/kg	1000	996	100	67-125	
1,2,4-Trichlorobenzene	ug/kg	1000	821	82	64-132	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

LABORATORY CONTROL SAMPLE: 1710641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	949	95	64-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2210	88	56-132	
1,2-Dibromoethane (EDB)	ug/kg	1000	982	98	72-125	
1,2-Dichlorobenzene	ug/kg	1000	1020	102	68-125	
1,2-Dichloroethane	ug/kg	1000	999	100	69-125	
1,2-Dichloropropane	ug/kg	1000	1000	100	73-125	
1,3,5-Trimethylbenzene	ug/kg	1000	988	99	64-125	
1,3-Dichlorobenzene	ug/kg	1000	1000	100	67-125	
1,3-Dichloropropane	ug/kg	1000	1040	104	71-125	
1,4-Dichlorobenzene	ug/kg	1000	985	99	69-125	
2,2-Dichloropropane	ug/kg	1000	950	95	53-131	
2-Butanone (MEK)	ug/kg	5000	5080	102	52-131	
2-Chlorotoluene	ug/kg	1000	990	99	66-125	
4-Chlorotoluene	ug/kg	1000	1030	103	52-131	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5490	110	64-125	
Acetone	ug/kg	5000	4950	99	42-150	
Allyl chloride	ug/kg	1000	901	90	58-128	
Benzene	ug/kg	1000	968	97	71-125	
Bromobenzene	ug/kg	1000	1010	101	69-125	
Bromochloromethane	ug/kg	1000	957	96	75-125	
Bromodichloromethane	ug/kg	1000	998	100	69-125	
Bromoform	ug/kg	1000	966	97	62-125	
Bromomethane	ug/kg	1000	874	87	62-125	
Carbon tetrachloride	ug/kg	1000	885	89	66-125	
Chlorobenzene	ug/kg	1000	1000	100	75-125	
Chloroethane	ug/kg	1000	1080	108	61-125	
Chloroform	ug/kg	1000	997	100	72-125	
Chloromethane	ug/kg	1000	927	93	59-125	
cis-1,2-Dichloroethene	ug/kg	1000	905	90	74-125	
cis-1,3-Dichloropropene	ug/kg	1000	932	93	68-125	
Dibromochloromethane	ug/kg	1000	947	95	65-125	
Dibromomethane	ug/kg	1000	995	99	72-125	
Dichlorodifluoromethane	ug/kg	1000	596	60	39-125	
Dichlorofluoromethane	ug/kg	1000	986	99	64-127	
Diethyl ether (Ethyl ether)	ug/kg	1000	1080	108	66-125	
Ethylbenzene	ug/kg	1000	974	97	69-125	
Hexachloro-1,3-butadiene	ug/kg	1000	949	95	53-150	
Isopropylbenzene (Cumene)	ug/kg	1000	1010	101	70-125	
Methyl-tert-butyl ether	ug/kg	1000	950	95	69-125	
Methylene Chloride	ug/kg	1000	899	90	71-125	
n-Butylbenzene	ug/kg	1000	989	99	59-133	
n-Propylbenzene	ug/kg	1000	1020	102	64-125	
Naphthalene	ug/kg	1000	810	81	61-131	
p-Isopropyltoluene	ug/kg	1000	1010	101	63-127	
sec-Butylbenzene	ug/kg	1000	994	99	64-125	
Styrene	ug/kg	1000	1050	105	74-125	
tert-Butylbenzene	ug/kg	1000	1010	101	66-125	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

LABORATORY CONTROL SAMPLE: 1710641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	1000	100	68-125	
Tetrahydrofuran	ug/kg	10000	10500	105	68-125	
Toluene	ug/kg	1000	939	94	70-125	
trans-1,2-Dichloroethene	ug/kg	1000	934	93	68-125	
trans-1,3-Dichloropropene	ug/kg	1000	1010	101	70-125	
Trichloroethene	ug/kg	1000	1020	102	71-125	
Trichlorofluoromethane	ug/kg	1000	1020	102	62-132	
Vinyl chloride	ug/kg	1000	893	89	55-125	
Xylene (Total)	ug/kg	3000	2950	98	74-125	
1,2-Dichloroethane-d4 (S)	%			101	74-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE SAMPLE: 1710642

Parameter	Units	10270417001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1170	1270	109	63-140	
1,1,1-Trichloroethane	ug/kg	ND	1170	1310	113	54-149	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1170	1210	104	46-150	
1,1,2-Trichloroethane	ug/kg	ND	1170	1330	114	62-141	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1170	1230	105	65-150	
1,1-Dichloroethane	ug/kg	ND	1170	1340	115	57-145	
1,1-Dichloroethene	ug/kg	ND	1170	1170	101	58-137	
1,1-Dichloropropene	ug/kg	ND	1170	1250	107	61-141	
1,2,3-Trichlorobenzene	ug/kg	ND	1170	1300	112	62-147	
1,2,3-Trichloropropane	ug/kg	ND	1170	1410	121	65-141	
1,2,4-Trichlorobenzene	ug/kg	ND	1170	1280	110	64-147	
1,2,4-Trimethylbenzene	ug/kg	134	1170	1350	105	59-144	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2910	3510	121	56-147	
1,2-Dibromoethane (EDB)	ug/kg	ND	1170	1310	113	66-135	
1,2-Dichlorobenzene	ug/kg	ND	1170	1320	113	63-143	
1,2-Dichloroethane	ug/kg	ND	1170	1300	112	57-145	
1,2-Dichloropropane	ug/kg	ND	1170	1310	112	62-139	
1,3,5-Trimethylbenzene	ug/kg	ND	1170	1280	107	60-144	
1,3-Dichlorobenzene	ug/kg	ND	1170	1300	111	61-146	
1,3-Dichloropropane	ug/kg	ND	1170	1320	113	63-138	
1,4-Dichlorobenzene	ug/kg	ND	1170	1260	108	60-145	
2,2-Dichloropropane	ug/kg	ND	1170	1240	107	54-143	
2-Butanone (MEK)	ug/kg	ND	5820	8210	141	45-150	
2-Chlorotoluene	ug/kg	ND	1170	1270	109	62-140	
4-Chlorotoluene	ug/kg	ND	1170	1310	112	60-143	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5820	8420	145	58-146	
Acetone	ug/kg	ND	5820	7170	123	30-150	
Allyl chloride	ug/kg	ND	1170	1140	98	55-142	
Benzene	ug/kg	52.8	1170	1340	111	61-134	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

MATRIX SPIKE SAMPLE: 1710642		10270417001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/kg	ND	1170	1270	109	64-143	
Bromochloromethane	ug/kg	ND	1170	1220	105	62-141	
Bromodichloromethane	ug/kg	ND	1170	1310	112	57-146	
Bromoform	ug/kg	ND	1170	1280	110	60-136	
Bromomethane	ug/kg	ND	1170	1090	94	54-141	
Carbon tetrachloride	ug/kg	ND	1170	1150	98	50-150	
Chlorobenzene	ug/kg	ND	1170	1280	110	67-135	
Chloroethane	ug/kg	ND	1170	1400	120	46-150	
Chloroform	ug/kg	ND	1170	1270	109	60-141	
Chloromethane	ug/kg	ND	1170	1190	102	46-133	
cis-1,2-Dichloroethene	ug/kg	145	1170	1270	97	64-138	
cis-1,3-Dichloropropene	ug/kg	ND	1170	1230	106	64-138	
Dibromochloromethane	ug/kg	ND	1170	1240	106	56-145	
Dibromomethane	ug/kg	ND	1170	1290	111	62-138	
Dichlorodifluoromethane	ug/kg	ND	1170	815	70	30-136	
Dichlorofluoromethane	ug/kg	ND	1170	1300	112	47-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1170	1400	120	59-137	
Ethylbenzene	ug/kg	143	1170	1370	106	63-135	
Hexachloro-1,3-butadiene	ug/kg	ND	1170	1390	119	65-150	
Isopropylbenzene (Cumene)	ug/kg	69.6	1170	1430	117	65-137	
Methyl-tert-butyl ether	ug/kg	ND	1170	1300	112	56-143	
Methylene Chloride	ug/kg	ND	1170	1170	100	62-133	
n-Butylbenzene	ug/kg	ND	1170	1320	111	58-148	
n-Propylbenzene	ug/kg	98.1	1170	1440	115	60-142	
Naphthalene	ug/kg	296	1170	1750	125	61-146	
p-Isopropyltoluene	ug/kg	ND	1170	1330	113	61-145	
sec-Butylbenzene	ug/kg	ND	1170	1310	110	57-147	
Styrene	ug/kg	ND	1170	1340	115	67-137	
tert-Butylbenzene	ug/kg	ND	1170	1310	113	57-149	
Tetrachloroethene	ug/kg	ND	1170	1370	115	66-138	
Tetrahydrofuran	ug/kg	ND	11700	13700	117	53-145	
Toluene	ug/kg	535	1170	1660	97	67-132	
trans-1,2-Dichloroethene	ug/kg	ND	1170	1160	100	61-136	
trans-1,3-Dichloropropene	ug/kg	ND	1170	1270	109	60-140	
Trichloroethene	ug/kg	1070	1170	2480	120	58-150	
Trichlorofluoromethane	ug/kg	ND	1170	1160	100	53-150	
Vinyl chloride	ug/kg	ND	1170	1150	98	45-139	
Xylene (Total)	ug/kg	1280	3490	8740	214	66-136	
1,2-Dichloroethane-d4 (S)	%				100	74-125	
4-Bromofluorobenzene (S)	%				101	75-125	
Toluene-d8 (S)	%				96	75-125	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

SAMPLE DUPLICATE: 1710643

Parameter	Units	10270417004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	689	746	8	30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	109		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	11.7J		30	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

SAMPLE DUPLICATE: 1710643

Parameter	Units	10270417004 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	277	313	12	30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	2050	2020	2	30	
p-Isopropyltoluene	ug/kg	855	937	9	30	
sec-Butylbenzene	ug/kg	76.4	89.8	16	30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	21.8J		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	21.9J		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	7.3J		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	102	97	9		
4-Bromofluorobenzene (S)	%.	108	107	5		
Toluene-d8 (S)	%.	97	98	3		

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch: MSV/27472 Analysis Method: EPA 8260
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV 5030 Med Level
 Associated Lab Samples: 10270417011, 10270417012, 10270417013, 10270417014, 10270417016, 10270417017, 10270417018,
 10270417019, 10270417020, 10270417021, 10270417022

METHOD BLANK: 1710925 Matrix: Solid
 Associated Lab Samples: 10270417011, 10270417012, 10270417013, 10270417014, 10270417016, 10270417017, 10270417018,
 10270417019, 10270417020, 10270417021, 10270417022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	06/19/14 12:28	
1,1,1-Trichloroethane	ug/kg	ND	50.0	06/19/14 12:28	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	06/19/14 12:28	
1,1,2-Trichloroethane	ug/kg	ND	50.0	06/19/14 12:28	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	06/19/14 12:28	
1,1-Dichloroethane	ug/kg	ND	50.0	06/19/14 12:28	
1,1-Dichloroethene	ug/kg	ND	50.0	06/19/14 12:28	
1,1-Dichloropropene	ug/kg	ND	50.0	06/19/14 12:28	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	06/19/14 12:28	
1,2,3-Trichloropropane	ug/kg	ND	200	06/19/14 12:28	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	06/19/14 12:28	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	06/19/14 12:28	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	06/19/14 12:28	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	06/19/14 12:28	
1,2-Dichlorobenzene	ug/kg	ND	50.0	06/19/14 12:28	
1,2-Dichloroethane	ug/kg	ND	50.0	06/19/14 12:28	
1,2-Dichloropropane	ug/kg	ND	50.0	06/19/14 12:28	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	06/19/14 12:28	
1,3-Dichlorobenzene	ug/kg	ND	50.0	06/19/14 12:28	
1,3-Dichloropropane	ug/kg	ND	50.0	06/19/14 12:28	
1,4-Dichlorobenzene	ug/kg	ND	50.0	06/19/14 12:28	
2,2-Dichloropropane	ug/kg	ND	200	06/19/14 12:28	
2-Butanone (MEK)	ug/kg	ND	250	06/19/14 12:28	
2-Chlorotoluene	ug/kg	ND	50.0	06/19/14 12:28	
4-Chlorotoluene	ug/kg	ND	50.0	06/19/14 12:28	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	06/19/14 12:28	
Acetone	ug/kg	ND	1000	06/19/14 12:28	
Allyl chloride	ug/kg	ND	200	06/19/14 12:28	
Benzene	ug/kg	ND	20.0	06/19/14 12:28	
Bromobenzene	ug/kg	ND	50.0	06/19/14 12:28	
Bromochloromethane	ug/kg	ND	50.0	06/19/14 12:28	
Bromodichloromethane	ug/kg	ND	50.0	06/19/14 12:28	
Bromoform	ug/kg	ND	200	06/19/14 12:28	
Bromomethane	ug/kg	ND	500	06/19/14 12:28	
Carbon tetrachloride	ug/kg	ND	50.0	06/19/14 12:28	
Chlorobenzene	ug/kg	ND	50.0	06/19/14 12:28	
Chloroethane	ug/kg	ND	500	06/19/14 12:28	
Chloroform	ug/kg	ND	50.0	06/19/14 12:28	
Chloromethane	ug/kg	ND	200	06/19/14 12:28	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	06/19/14 12:28	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

METHOD BLANK: 1710925

Matrix: Solid

Associated Lab Samples: 10270417011, 10270417012, 10270417013, 10270417014, 10270417016, 10270417017, 10270417018, 10270417019, 10270417020, 10270417021, 10270417022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	50.0	06/19/14 12:28	
Dibromochloromethane	ug/kg	ND	50.0	06/19/14 12:28	
Dibromomethane	ug/kg	ND	50.0	06/19/14 12:28	
Dichlorodifluoromethane	ug/kg	ND	200	06/19/14 12:28	
Dichlorofluoromethane	ug/kg	ND	500	06/19/14 12:28	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	06/19/14 12:28	
Ethylbenzene	ug/kg	ND	50.0	06/19/14 12:28	
Hexachloro-1,3-butadiene	ug/kg	ND	250	06/19/14 12:28	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	06/19/14 12:28	
Methyl-tert-butyl ether	ug/kg	ND	50.0	06/19/14 12:28	
Methylene Chloride	ug/kg	ND	200	06/19/14 12:28	
n-Butylbenzene	ug/kg	ND	50.0	06/19/14 12:28	
n-Propylbenzene	ug/kg	ND	50.0	06/19/14 12:28	
Naphthalene	ug/kg	ND	200	06/19/14 12:28	
p-Isopropyltoluene	ug/kg	ND	50.0	06/19/14 12:28	
sec-Butylbenzene	ug/kg	ND	50.0	06/19/14 12:28	
Styrene	ug/kg	ND	50.0	06/19/14 12:28	
tert-Butylbenzene	ug/kg	ND	50.0	06/19/14 12:28	
Tetrachloroethene	ug/kg	ND	50.0	06/19/14 12:28	
Tetrahydrofuran	ug/kg	ND	2000	06/19/14 12:28	
Toluene	ug/kg	ND	50.0	06/19/14 12:28	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	06/19/14 12:28	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	06/19/14 12:28	
Trichloroethene	ug/kg	ND	50.0	06/19/14 12:28	
Trichlorofluoromethane	ug/kg	ND	200	06/19/14 12:28	
Vinyl chloride	ug/kg	ND	20.0	06/19/14 12:28	
Xylene (Total)	ug/kg	ND	150	06/19/14 12:28	
1,2-Dichloroethane-d4 (S)	%	103	74-125	06/19/14 12:28	
4-Bromofluorobenzene (S)	%	103	75-125	06/19/14 12:28	
Toluene-d8 (S)	%	100	75-125	06/19/14 12:28	

LABORATORY CONTROL SAMPLE: 1710926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	984	98	68-125	
1,1,1-Trichloroethane	ug/kg	1000	961	96	62-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	935	93	61-127	
1,1,2-Trichloroethane	ug/kg	1000	953	95	70-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1030	103	56-149	
1,1-Dichloroethane	ug/kg	1000	971	97	60-127	
1,1-Dichloroethene	ug/kg	1000	836	84	63-125	
1,1-Dichloropropene	ug/kg	1000	923	92	67-125	
1,2,3-Trichlorobenzene	ug/kg	1000	703	70	63-132	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

LABORATORY CONTROL SAMPLE: 1710926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	1000	973	97	67-125	
1,2,4-Trichlorobenzene	ug/kg	1000	800	80	64-132	
1,2,4-Trimethylbenzene	ug/kg	1000	945	94	64-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2070	83	56-132	
1,2-Dibromoethane (EDB)	ug/kg	1000	957	96	72-125	
1,2-Dichlorobenzene	ug/kg	1000	1010	101	68-125	
1,2-Dichloroethane	ug/kg	1000	945	94	69-125	
1,2-Dichloropropane	ug/kg	1000	947	95	73-125	
1,3,5-Trimethylbenzene	ug/kg	1000	970	97	64-125	
1,3-Dichlorobenzene	ug/kg	1000	1020	102	67-125	
1,3-Dichloropropane	ug/kg	1000	981	98	71-125	
1,4-Dichlorobenzene	ug/kg	1000	1000	100	69-125	
2,2-Dichloropropane	ug/kg	1000	901	90	53-131	
2-Butanone (MEK)	ug/kg	5000	4580	92	52-131	
2-Chlorotoluene	ug/kg	1000	1010	101	66-125	
4-Chlorotoluene	ug/kg	1000	1030	103	52-131	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5120	102	64-125	
Acetone	ug/kg	5000	5230	105	42-150	
Allyl chloride	ug/kg	1000	855	85	58-128	
Benzene	ug/kg	1000	933	93	71-125	
Bromobenzene	ug/kg	1000	989	99	69-125	
Bromochloromethane	ug/kg	1000	898	90	75-125	
Bromodichloromethane	ug/kg	1000	948	95	69-125	
Bromoform	ug/kg	1000	903	90	62-125	
Bromomethane	ug/kg	1000	850	85	62-125	
Carbon tetrachloride	ug/kg	1000	869	87	66-125	
Chlorobenzene	ug/kg	1000	963	96	75-125	
Chloroethane	ug/kg	1000	1050	105	61-125	
Chloroform	ug/kg	1000	944	94	72-125	
Chloromethane	ug/kg	1000	865	86	59-125	
cis-1,2-Dichloroethene	ug/kg	1000	864	86	74-125	
cis-1,3-Dichloropropene	ug/kg	1000	894	89	68-125	
Dibromochloromethane	ug/kg	1000	936	94	65-125	
Dibromomethane	ug/kg	1000	934	93	72-125	
Dichlorodifluoromethane	ug/kg	1000	770	77	39-125	
Dichlorofluoromethane	ug/kg	1000	973	97	64-127	
Diethyl ether (Ethyl ether)	ug/kg	1000	999	100	66-125	
Ethylbenzene	ug/kg	1000	915	91	69-125	
Hexachloro-1,3-butadiene	ug/kg	1000	962	96	53-150	
Isopropylbenzene (Cumene)	ug/kg	1000	967	97	70-125	
Methyl-tert-butyl ether	ug/kg	1000	905	90	69-125	
Methylene Chloride	ug/kg	1000	852	85	71-125	
n-Butylbenzene	ug/kg	1000	1000	100	59-133	
n-Propylbenzene	ug/kg	1000	1020	102	64-125	
Naphthalene	ug/kg	1000	752	75	61-131	
p-Isopropyltoluene	ug/kg	1000	998	100	63-127	
sec-Butylbenzene	ug/kg	1000	975	97	64-125	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

LABORATORY CONTROL SAMPLE: 1710926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	1000	985	99	74-125	
tert-Butylbenzene	ug/kg	1000	1010	101	66-125	
Tetrachloroethene	ug/kg	1000	985	98	68-125	
Tetrahydrofuran	ug/kg	10000	10200	102	68-125	
Toluene	ug/kg	1000	906	91	70-125	
trans-1,2-Dichloroethene	ug/kg	1000	863	86	68-125	
trans-1,3-Dichloropropene	ug/kg	1000	937	94	70-125	
Trichloroethene	ug/kg	1000	963	96	71-125	
Trichlorofluoromethane	ug/kg	1000	1270	127	62-132	
Vinyl chloride	ug/kg	1000	899	90	55-125	
Xylene (Total)	ug/kg	3000	2800	93	74-125	
1,2-Dichloroethane-d4 (S)	%			103	74-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE SAMPLE: 1710927

Parameter	Units	10270417013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1060	971	92	63-140	
1,1,1-Trichloroethane	ug/kg	1510	1060	2040	50	54-149	M1
1,1,2,2-Tetrachloroethane	ug/kg	ND	1060	1070	101	46-150	
1,1,2-Trichloroethane	ug/kg	ND	1060	968	92	62-141	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1060	1010J	96	65-150	
1,1-Dichloroethane	ug/kg	ND	1060	1040	97	57-145	
1,1-Dichloroethene	ug/kg	ND	1060	921	87	58-137	
1,1-Dichloropropene	ug/kg	ND	1060	964	91	61-141	
1,2,3-Trichlorobenzene	ug/kg	ND	1060	1550	147	62-147	
1,2,3-Trichloropropane	ug/kg	ND	1060	1160	110	65-141	
1,2,4-Trichlorobenzene	ug/kg	ND	1060	1500	142	64-147	
1,2,4-Trimethylbenzene	ug/kg	ND	1060	1080	78	59-144	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2630	2630J	100	56-147	
1,2-Dibromoethane (EDB)	ug/kg	ND	1060	997	94	66-135	
1,2-Dichlorobenzene	ug/kg	ND	1060	1130	107	63-143	
1,2-Dichloroethane	ug/kg	ND	1060	1040	98	57-145	
1,2-Dichloropropane	ug/kg	ND	1060	1010	95	62-139	
1,3,5-Trimethylbenzene	ug/kg	ND	1060	1110	97	60-144	
1,3-Dichlorobenzene	ug/kg	ND	1060	1130	107	61-146	
1,3-Dichloropropane	ug/kg	ND	1060	1040	99	63-138	
1,4-Dichlorobenzene	ug/kg	ND	1060	1110	105	60-145	
2,2-Dichloropropane	ug/kg	ND	1060	959J	91	54-143	
2-Butanone (MEK)	ug/kg	ND	5280	5920	112	45-150	
2-Chlorotoluene	ug/kg	ND	1060	1100	104	62-140	
4-Chlorotoluene	ug/kg	ND	1060	1110	105	60-143	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5280	5830	110	58-146	
Acetone	ug/kg	ND	5280	5280	100	30-150	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

MATRIX SPIKE SAMPLE:	1710927	10270417013	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Allyl chloride	ug/kg	ND	1060	858J	81	55-142	
Benzene	ug/kg	ND	1060	1000	95	61-134	
Bromobenzene	ug/kg	ND	1060	1040	99	64-143	
Bromochloromethane	ug/kg	ND	1060	981	93	62-141	
Bromodichloromethane	ug/kg	ND	1060	948	90	57-146	
Bromoform	ug/kg	ND	1060	954J	90	60-136	
Bromomethane	ug/kg	ND	1060	ND	100	54-141	
Carbon tetrachloride	ug/kg	ND	1060	906	86	50-150	
Chlorobenzene	ug/kg	ND	1060	1010	96	67-135	
Chloroethane	ug/kg	ND	1060	1130J	107	46-150	
Chloroform	ug/kg	ND	1060	1000	95	60-141	
Chloromethane	ug/kg	ND	1060	947J	90	46-133	
cis-1,2-Dichloroethene	ug/kg	ND	1060	945	90	64-138	
cis-1,3-Dichloropropene	ug/kg	ND	1060	896	85	64-138	
Dibromochloromethane	ug/kg	ND	1060	948	90	56-145	
Dibromomethane	ug/kg	ND	1060	969	92	62-138	
Dichlorodifluoromethane	ug/kg	ND	1060	705J	67	30-136	
Dichlorofluoromethane	ug/kg	ND	1060	ND	102	47-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1060	1090	103	59-137	
Ethylbenzene	ug/kg	ND	1060	1000	93	63-135	
Hexachloro-1,3-butadiene	ug/kg	ND	1060	1250J	118	65-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1060	1090	103	65-137	
Methyl-tert-butyl ether	ug/kg	ND	1060	992	94	56-143	
Methylene Chloride	ug/kg	ND	1060	937J	89	62-133	
n-Butylbenzene	ug/kg	ND	1060	1260	114	58-148	
n-Propylbenzene	ug/kg	ND	1060	1160	106	60-142	
Naphthalene	ug/kg	ND	1060	1320	110	61-146	
p-Isopropyltoluene	ug/kg	ND	1060	1230	114	61-145	
sec-Butylbenzene	ug/kg	ND	1060	1240	114	57-147	
Styrene	ug/kg	ND	1060	1010	95	67-137	
tert-Butylbenzene	ug/kg	ND	1060	1160	110	57-149	
Tetrachloroethene	ug/kg	ND	1060	1030	98	66-138	
Tetrahydrofuran	ug/kg	ND	10600	11600	110	53-145	
Toluene	ug/kg	ND	1060	1020	93	67-132	
trans-1,2-Dichloroethene	ug/kg	ND	1060	892	85	61-136	
trans-1,3-Dichloropropene	ug/kg	ND	1060	898	85	60-140	
Trichloroethene	ug/kg	6170	1060	6310	13	58-150	M1
Trichlorofluoromethane	ug/kg	ND	1060	1070	101	53-150	
Vinyl chloride	ug/kg	ND	1060	929	88	45-139	
Xylene (Total)	ug/kg	ND	3160	2940	93	66-136	
1,2-Dichloroethane-d4 (S)	%				105	74-125	
4-Bromofluorobenzene (S)	%				102	75-125	
Toluene-d8 (S)	%				100	75-125	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

SAMPLE DUPLICATE: 1710928

Parameter	Units	10270417014 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

SAMPLE DUPLICATE: 1710928

Parameter	Units	10270417014 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	103	103	1		
4-Bromofluorobenzene (S)	%.	104	103	.09		
Toluene-d8 (S)	%.	101	101	1		

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch: OEXT/25360 Analysis Method: EPA 8082
 QC Batch Method: EPA 3550 Analysis Description: 8082 GCS PCB
 Associated Lab Samples: 10270417012, 10270417013, 10270417016, 10270417017, 10270417018, 10270417019, 10270417020, 10270417021

METHOD BLANK: 1707048 Matrix: Solid
 Associated Lab Samples: 10270417012, 10270417013, 10270417016, 10270417017, 10270417018, 10270417019, 10270417020, 10270417021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	06/18/14 01:18	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	06/18/14 01:18	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	06/18/14 01:18	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	06/18/14 01:18	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	06/18/14 01:18	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	06/18/14 01:18	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	06/18/14 01:18	
PCB-1262 (Aroclor 1262)	ug/kg	ND	33.0	06/18/14 01:18	
PCB-1268 (Aroclor 1268)	ug/kg	ND	33.0	06/18/14 01:18	
Decachlorobiphenyl (S)	%.	67	55-130	06/18/14 01:18	
Tetrachloro-m-xylene (S)	%.	71	50-128	06/18/14 01:18	

LABORATORY CONTROL SAMPLE: 1707049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	517	78	62-125	
PCB-1260 (Aroclor 1260)	ug/kg	667	508	76	61-125	
Decachlorobiphenyl (S)	%.			77	55-130	
Tetrachloro-m-xylene (S)	%.			83	50-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1707050 1707051

Parameter	Units	10270417012		1707050		1707051		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
PCB-1016 (Aroclor 1016)	ug/kg	ND	731	728	563	600	77	82	34-125	6	30			
PCB-1260 (Aroclor 1260)	ug/kg	ND	731	728	598	644	82	88	30-128	7	30			
Decachlorobiphenyl (S)	%.						73	71	55-130					
Tetrachloro-m-xylene (S)	%.						78	79	50-128					

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch: OEXT/25363 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3550 Analysis Description: 8270 Solid PAH by SIM MSSV
 Associated Lab Samples: 10270417003, 10270417006, 10270417007, 10270417008, 10270417009, 10270417011, 10270417012,
 10270417013, 10270417014, 10270417015, 10270417016, 10270417017

METHOD BLANK: 1707293 Matrix: Solid
 Associated Lab Samples: 10270417003, 10270417006, 10270417007, 10270417008, 10270417009, 10270417011, 10270417012,
 10270417013, 10270417014, 10270417015, 10270417016, 10270417017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	10.0	06/18/14 08:08	
Acenaphthylene	ug/kg	ND	10.0	06/18/14 08:08	
Anthracene	ug/kg	ND	10.0	06/18/14 08:08	
Benzo(a)anthracene	ug/kg	ND	10.0	06/18/14 08:08	
Benzo(a)pyrene	ug/kg	ND	10.0	06/18/14 08:08	
Benzo(b)fluoranthene	ug/kg	ND	10.0	06/18/14 08:08	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	06/18/14 08:08	
Benzo(k)fluoranthene	ug/kg	ND	10.0	06/18/14 08:08	
Chrysene	ug/kg	ND	10.0	06/18/14 08:08	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	06/18/14 08:08	
Fluoranthene	ug/kg	ND	10.0	06/18/14 08:08	
Fluorene	ug/kg	ND	10.0	06/18/14 08:08	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	06/18/14 08:08	
Naphthalene	ug/kg	ND	10.0	06/18/14 08:08	
Phenanthrene	ug/kg	ND	10.0	06/18/14 08:08	
Pyrene	ug/kg	ND	10.0	06/18/14 08:08	
2-Fluorobiphenyl (S)	%	83	30-150	06/18/14 08:08	
Terphenyl-d14 (S)	%	88	30-150	06/18/14 08:08	

LABORATORY CONTROL SAMPLE: 1707294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	26.0	78	46-125	
Acenaphthylene	ug/kg	33.3	26.2	78	45-125	
Anthracene	ug/kg	33.3	27.5	82	56-125	
Benzo(a)anthracene	ug/kg	33.3	27.4	82	64-125	
Benzo(a)pyrene	ug/kg	33.3	29.4	88	66-125	
Benzo(b)fluoranthene	ug/kg	33.3	29.5	88	65-125	
Benzo(g,h,i)perylene	ug/kg	33.3	29.7	89	60-125	
Benzo(k)fluoranthene	ug/kg	33.3	28.0	84	60-125	
Chrysene	ug/kg	33.3	29.8	89	60-125	
Dibenz(a,h)anthracene	ug/kg	33.3	29.4	88	59-125	
Fluoranthene	ug/kg	33.3	28.5	85	70-125	
Fluorene	ug/kg	33.3	27.0	81	55-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	29.4	88	60-125	
Naphthalene	ug/kg	33.3	26.3	79	43-125	
Phenanthrene	ug/kg	33.3	27.9	84	60-125	
Pyrene	ug/kg	33.3	30.1	90	67-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

LABORATORY CONTROL SAMPLE: 1707294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			83	30-150	
Terphenyl-d14 (S)	%.			90	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1707295 1707296

Parameter	Units	10269699001		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Acenaphthene	ug/kg	ND	33.3	33.4	30.0	32.0	76	81	30-150	6	30		
Acenaphthylene	ug/kg	14.0	33.3	33.4	37.6	39.6	71	77	30-150	5	30		
Anthracene	ug/kg	11.6	33.3	33.4	37.3	41.0	77	88	30-150	9	30		
Benzo(a)anthracene	ug/kg	48.0	33.3	33.4	70.8	88.0	68	120	30-150	22	30		
Benzo(a)pyrene	ug/kg	66.1	33.3	33.4	86.8	106	62	120	30-150	20	30		
Benzo(b)fluoranthene	ug/kg	90.0	33.3	33.4	107	133	52	129	30-150	21	30		
Benzo(g,h,i)perylene	ug/kg	57.1	33.3	33.4	78.8	92.0	65	105	30-150	16	30		
Benzo(k)fluoranthene	ug/kg	32.5	33.3	33.4	64.1	76.2	95	131	30-150	17	30		
Chrysene	ug/kg	62.1	33.3	33.4	84.4	106	67	131	30-150	23	30		
Dibenz(a,h)anthracene	ug/kg	12.1	33.3	33.4	36.8	38.8	74	80	30-150	5	30		
Fluoranthene	ug/kg	80.5	33.3	33.4	101	134	63	159	30-150	27	30	M1	
Fluorene	ug/kg	ND	33.3	33.4	30.2	31.8	91	95	30-150	5	30		
Indeno(1,2,3-cd)pyrene	ug/kg	43.3	33.3	33.4	65.1	76.0	65	98	30-150	15	30		
Naphthalene	ug/kg	ND	33.3	33.4	24.2	25.7	73	77	30-150	6	30		
Phenanthrene	ug/kg	34.0	33.3	33.4	58.8	81.7	74	143	30-150	33	30	R1	
Pyrene	ug/kg	80.1	33.3	33.4	101	132	63	156	30-150	27	30	M1	
2-Fluorobiphenyl (S)	%.						82	78	30-150				
Terphenyl-d14 (S)	%.						90	84	30-150				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch: OEXT/25364 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3550 Analysis Description: 8270 Solid PAH by SIM MSSV
 Associated Lab Samples: 10270417018, 10270417019, 10270417020, 10270417021

METHOD BLANK: 1707431 Matrix: Solid
 Associated Lab Samples: 10270417018, 10270417019, 10270417020, 10270417021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	10.0	06/15/14 12:23	
Acenaphthylene	ug/kg	ND	10.0	06/15/14 12:23	
Anthracene	ug/kg	ND	10.0	06/15/14 12:23	
Benzo(a)anthracene	ug/kg	ND	10.0	06/15/14 12:23	
Benzo(a)pyrene	ug/kg	ND	10.0	06/15/14 12:23	
Benzo(b)fluoranthene	ug/kg	ND	10.0	06/15/14 12:23	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	06/15/14 12:23	
Benzo(k)fluoranthene	ug/kg	ND	10.0	06/15/14 12:23	
Chrysene	ug/kg	ND	10.0	06/15/14 12:23	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	06/15/14 12:23	
Fluoranthene	ug/kg	ND	10.0	06/15/14 12:23	
Fluorene	ug/kg	ND	10.0	06/15/14 12:23	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	06/15/14 12:23	
Naphthalene	ug/kg	ND	10.0	06/15/14 12:23	
Phenanthrene	ug/kg	ND	10.0	06/15/14 12:23	
Pyrene	ug/kg	ND	10.0	06/15/14 12:23	
2-Fluorobiphenyl (S)	%	78	30-150	06/15/14 12:23	
Terphenyl-d14 (S)	%	78	30-150	06/15/14 12:23	

LABORATORY CONTROL SAMPLE: 1707432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	28.7	86	46-125	
Acenaphthylene	ug/kg	33.3	29.1	87	45-125	
Anthracene	ug/kg	33.3	29.7	89	56-125	
Benzo(a)anthracene	ug/kg	33.3	26.4	79	64-125	
Benzo(a)pyrene	ug/kg	33.3	28.3	85	66-125	
Benzo(b)fluoranthene	ug/kg	33.3	29.2	88	65-125	
Benzo(g,h,i)perylene	ug/kg	33.3	27.5	82	60-125	
Benzo(k)fluoranthene	ug/kg	33.3	25.2	76	60-125	
Chrysene	ug/kg	33.3	28.4	85	60-125	
Dibenz(a,h)anthracene	ug/kg	33.3	26.2	79	59-125	
Fluoranthene	ug/kg	33.3	27.2	82	70-125	
Fluorene	ug/kg	33.3	29.3	88	55-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	26.6	80	60-125	
Naphthalene	ug/kg	33.3	28.3	85	43-125	
Phenanthrene	ug/kg	33.3	29.1	87	60-125	
Pyrene	ug/kg	33.3	30.5	92	67-125	
2-Fluorobiphenyl (S)	%			89	30-150	
Terphenyl-d14 (S)	%			87	30-150	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Parameter	Units	10270630001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec							
Acenaphthene	ug/kg		35.4	35.3	27.3	27.4	77	78	30-150	.2	30					
Acenaphthylene	ug/kg		35.4	35.3	29.9	29.3	84	83	30-150	2	30					
Anthracene	ug/kg		35.4	35.3	32.6	31.7	92	90	30-150	3	30					
Benzo(a)anthracene	ug/kg		35.4	35.3	34.0	33.2	96	94	30-150	2	30					
Benzo(a)pyrene	ug/kg	0.0058J mg/kg	35.4	35.3	33.7	31.4	79	72	30-150	7	30					
Benzo(b)fluoranthene	ug/kg	0.015 mg/kg	35.4	35.3	40.0	36.9	71	63	30-150	8	30					
Benzo(g,h,i)perylene	ug/kg		35.4	35.3	39.9	33.7	83	65	30-150	17	30					
Benzo(k)fluoranthene	ug/kg		35.4	35.3	33.9	32.5	80	76	30-150	4	30					
Chrysene	ug/kg		35.4	35.3	36.2	34.7	77	73	30-150	4	30					
Dibenz(a,h)anthracene	ug/kg	<0.0053 mg/kg	35.4	35.3	29.4	28.4	83	80	30-150	3	30					
Fluoranthene	ug/kg		35.4	35.3	34.4	31.7	69	62	30-150	8	30					
Fluorene	ug/kg		35.4	35.3	28.6	29.9	81	85	30-150	5	30					
Indeno(1,2,3-cd)pyrene	ug/kg		35.4	35.3	36.1	31.8	81	69	30-150	13	30					
Naphthalene	ug/kg		35.4	35.3	23.5	23.2	66	66	30-150	1	30					
Phenanthrene	ug/kg		35.4	35.3	35.3	34.8	78	77	30-150	1	30					
Pyrene	ug/kg		35.4	35.3	41.9	39.4	86	79	30-150	6	30					
2-Fluorobiphenyl (S)	%						76	73	30-150							
Terphenyl-d14 (S)	%						82	85	30-150							

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

QC Batch: OEXT/25375 Analysis Method: WI MOD DRO
 QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
 Associated Lab Samples: 10270417001, 10270417002, 10270417003, 10270417005, 10270417006, 10270417007, 10270417009,
 10270417010, 10270417011, 10270417013, 10270417014, 10270417015, 10270417016, 10270417017,
 10270417018, 10270417019, 10270417020, 10270417021

METHOD BLANK: 1708455 Matrix: Solid
 Associated Lab Samples: 10270417001, 10270417002, 10270417003, 10270417005, 10270417006, 10270417007, 10270417009,
 10270417010, 10270417011, 10270417013, 10270417014, 10270417015, 10270417016, 10270417017,
 10270417018, 10270417019, 10270417020, 10270417021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	10.0	06/17/14 07:40	
n-Triacontane (S)	%.	98	50-150	06/17/14 07:40	

LABORATORY CONTROL SAMPLE & LCSD: 1708456 1708457

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	80	66.8	68.8	84	86	70-120	3	20	
n-Triacontane (S)	%.				88	89	50-150			

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QUALIFIERS

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10270417

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice, indicating the cool down process had begun.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P3 Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.

R1 RPD value was outside control limits.

S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

T6 High boiling point hydrocarbons are present in the sample.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2013-P0183-0061 FMR GROSS-GIVE
Pace Project No.: 10270417

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10270417012	GP-16 1.5'	EPA 3550	OEXT/25360	EPA 8082	GCSV/13418
10270417013	GP-17 1.5'	EPA 3550	OEXT/25360	EPA 8082	GCSV/13418
10270417016	GP-21 1.5'	EPA 3550	OEXT/25360	EPA 8082	GCSV/13418
10270417017	HA-1 1.5'	EPA 3550	OEXT/25360	EPA 8082	GCSV/13418
10270417018	HA-2 1.5'	EPA 3550	OEXT/25360	EPA 8082	GCSV/13418
10270417019	HA-3 3'	EPA 3550	OEXT/25360	EPA 8082	GCSV/13418
10270417020	HA-4 3'	EPA 3550	OEXT/25360	EPA 8082	GCSV/13418
10270417021	HA-5 3'	EPA 3550	OEXT/25360	EPA 8082	GCSV/13418
10270417001	GP-1 5'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417002	GP-1 15'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417003	GP-3 2'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417005	GP-7 3'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417006	GP-11 1.5'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417007	GP-12 1.5'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417009	GP-13 1.5'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417010	GP-14 1.5'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417011	GP-15 1.5'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417013	GP-17 1.5'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417014	GP-18 1.5'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417015	GP-19 1.5'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417016	GP-21 1.5'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417017	HA-1 1.5'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417018	HA-2 1.5'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417019	HA-3 3'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417020	HA-4 3'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417021	HA-5 3'	WI MOD DRO	OEXT/25375	WI MOD DRO	GCSV/13421
10270417001	GP-1 5'	TPH GRO/PVOC WI ext.	GCV/12196	WI MOD GRO	GCV/12200
10270417002	GP-1 15'	TPH GRO/PVOC WI ext.	GCV/12205	WI MOD GRO	GCV/12213
10270417004	GP-7 1.5'	TPH GRO/PVOC WI ext.	GCV/12205	WI MOD GRO	GCV/12213
10270417005	GP-7 3'	TPH GRO/PVOC WI ext.	GCV/12205	WI MOD GRO	GCV/12213
10270417013	GP-17 1.5'	TPH GRO/PVOC WI ext.	GCV/12205	WI MOD GRO	GCV/12213
10270417014	GP-18 1.5'	TPH GRO/PVOC WI ext.	GCV/12217	WI MOD GRO	GCV/12220
10270417015	GP-19 1.5'	TPH GRO/PVOC WI ext.	GCV/12218	WI MOD GRO	GCV/12223
10270417016	GP-21 1.5'	TPH GRO/PVOC WI ext.	GCV/12218	WI MOD GRO	GCV/12223
10270417017	HA-1 1.5'	TPH GRO/PVOC WI ext.	GCV/12218	WI MOD GRO	GCV/12223
10270417018	HA-2 1.5'	TPH GRO/PVOC WI ext.	GCV/12218	WI MOD GRO	GCV/12223
10270417019	HA-3 3'	TPH GRO/PVOC WI ext.	GCV/12218	WI MOD GRO	GCV/12223
10270417020	HA-4 3'	TPH GRO/PVOC WI ext.	GCV/12218	WI MOD GRO	GCV/12223
10270417021	HA-5 3'	TPH GRO/PVOC WI ext.	GCV/12218	WI MOD GRO	GCV/12223
10270417001	GP-1 5'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417003	GP-3 2'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417004	GP-7 1.5'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417005	GP-7 3'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417006	GP-11 1.5'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417007	GP-12 1.5'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417008	GP-12 8'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10270417009	GP-13 1.5'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417010	GP-14 1.5'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417011	GP-15 1.5	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417012	GP-16 1.5'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417013	GP-17 1.5'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417014	GP-18 1.5'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417015	GP-19 1.5'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417017	HA-1 1.5'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417018	HA-2 1.5'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417019	HA-3 3'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417020	HA-4 3'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417021	HA-5 3'	EPA 3050	MPRP/46600	EPA 6010C	ICP/19805
10270417001	GP-1 5'	ASTM D2974	MPRP/46583		
10270417002	GP-1 15'	ASTM D2974	MPRP/46584		
10270417003	GP-3 2'	ASTM D2974	MPRP/46584		
10270417004	GP-7 1.5'	ASTM D2974	MPRP/46584		
10270417005	GP-7 3'	ASTM D2974	MPRP/46584		
10270417006	GP-11 1.5'	ASTM D2974	MPRP/46584		
10270417007	GP-12 1.5'	ASTM D2974	MPRP/46584		
10270417008	GP-12 8'	ASTM D2974	MPRP/46584		
10270417009	GP-13 1.5'	ASTM D2974	MPRP/46584		
10270417010	GP-14 1.5'	ASTM D2974	MPRP/46584		
10270417011	GP-15 1.5	ASTM D2974	MPRP/46584		
10270417012	GP-16 1.5'	ASTM D2974	MPRP/46584		
10270417013	GP-17 1.5'	ASTM D2974	MPRP/46584		
10270417014	GP-18 1.5'	ASTM D2974	MPRP/46584		
10270417015	GP-19 1.5'	ASTM D2974	MPRP/46584		
10270417016	GP-21 1.5'	ASTM D2974	MPRP/46584		
10270417017	HA-1 1.5'	ASTM D2974	MPRP/46584		
10270417018	HA-2 1.5'	ASTM D2974	MPRP/46584		
10270417019	HA-3 3'	ASTM D2974	MPRP/46584		
10270417020	HA-4 3'	ASTM D2974	MPRP/46584		
10270417021	HA-5 3'	ASTM D2974	MPRP/46584		
10270417003	GP-3 2'	EPA 3550	OEXT/25363	EPA 8270 by SIM	MSSV/10703
10270417006	GP-11 1.5'	EPA 3550	OEXT/25363	EPA 8270 by SIM	MSSV/10703
10270417007	GP-12 1.5'	EPA 3550	OEXT/25363	EPA 8270 by SIM	MSSV/10703
10270417008	GP-12 8'	EPA 3550	OEXT/25363	EPA 8270 by SIM	MSSV/10703
10270417009	GP-13 1.5'	EPA 3550	OEXT/25363	EPA 8270 by SIM	MSSV/10703
10270417011	GP-15 1.5	EPA 3550	OEXT/25363	EPA 8270 by SIM	MSSV/10703
10270417012	GP-16 1.5'	EPA 3550	OEXT/25363	EPA 8270 by SIM	MSSV/10703
10270417013	GP-17 1.5'	EPA 3550	OEXT/25363	EPA 8270 by SIM	MSSV/10703
10270417014	GP-18 1.5'	EPA 3550	OEXT/25363	EPA 8270 by SIM	MSSV/10703
10270417015	GP-19 1.5'	EPA 3550	OEXT/25363	EPA 8270 by SIM	MSSV/10703
10270417016	GP-21 1.5'	EPA 3550	OEXT/25363	EPA 8270 by SIM	MSSV/10703
10270417017	HA-1 1.5'	EPA 3550	OEXT/25363	EPA 8270 by SIM	MSSV/10703
10270417018	HA-2 1.5'	EPA 3550	OEXT/25364	EPA 8270 by SIM	MSSV/10692
10270417019	HA-3 3'	EPA 3550	OEXT/25364	EPA 8270 by SIM	MSSV/10692

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2013-P0183-0061 FMR GROSS-GIVE

Pace Project No.: 10270417

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10270417020	HA-4 3'	EPA 3550	OEXT/25364	EPA 8270 by SIM	MSSV/10692
10270417021	HA-5 3'	EPA 3550	OEXT/25364	EPA 8270 by SIM	MSSV/10692
10270417001	GP-1 5'	EPA 5035/5030B	MSV/27469	EPA 8260	MSV/27478
10270417004	GP-7 1.5'	EPA 5035/5030B	MSV/27469	EPA 8260	MSV/27478
10270417005	GP-7 3'	EPA 5035/5030B	MSV/27469	EPA 8260	MSV/27478
10270417007	GP-12 1.5'	EPA 5035/5030B	MSV/27469	EPA 8260	MSV/27478
10270417008	GP-12 8'	EPA 5035/5030B	MSV/27469	EPA 8260	MSV/27478
10270417010	GP-14 1.5'	EPA 5035/5030B	MSV/27469	EPA 8260	MSV/27478
10270417011	GP-15 1.5	EPA 5035/5030B	MSV/27472	EPA 8260	MSV/27479
10270417012	GP-16 1.5'	EPA 5035/5030B	MSV/27472	EPA 8260	MSV/27479
10270417013	GP-17 1.5'	EPA 5035/5030B	MSV/27472	EPA 8260	MSV/27479
10270417014	GP-18 1.5'	EPA 5035/5030B	MSV/27472	EPA 8260	MSV/27479
10270417016	GP-21 1.5'	EPA 5035/5030B	MSV/27472	EPA 8260	MSV/27479
10270417017	HA-1 1.5'	EPA 5035/5030B	MSV/27472	EPA 8260	MSV/27479
10270417018	HA-2 1.5'	EPA 5035/5030B	MSV/27472	EPA 8260	MSV/27479
10270417019	HA-3 3'	EPA 5035/5030B	MSV/27472	EPA 8260	MSV/27479
10270417020	HA-4 3'	EPA 5035/5030B	MSV/27472	EPA 8260	MSV/27479
10270417021	HA-5 3'	EPA 5035/5030B	MSV/27472	EPA 8260	MSV/27479
10270417022	TRIP BLANK	EPA 5035/5030B	MSV/27472	EPA 8260	MSV/27479

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: **10270417** of **1822941**

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: The Jewelers Group	Report To: Kevia Plesan	Company Name: Some	Attention:	Address: 10125 Crestline Circle	REGULATORY AGENCY
Address: Eden Prairie, MN 55344	Copy To:	Address: ↓		City/State: Eden Prairie, MN	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
Phone: 952-380-3460	Project Name: For Green - Given MF	Project Name: Kabar Xiang	Pace Quote Reference:	Site Location: MN	<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER
Requested Due Date/TAT: Normal	Project Number: 2013-0183-0061	Pace Project Manager:	Pace Profile #:	Requested Analysis Filtered (Y/N)	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)		Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB							DATE	TIME	
1	6P-1 5'	DW			S/G								001
2	6P-1 15'	WT											002
3	6P-3 2'	WW											003
4	6P-7 1.5'	P											004
5	6P-7 3'	SL											005
6	6P-11 1.5'	OL											006
7	6P-12 1.5'	WP											007
8	6P-12 8'	AR											008
9	6P-13 1.5'	TS											009
10	6P-14 1.5'	OT											010
11	6P-15 1.5'												011
12	6P-16 1.5'												012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brad M. Corone	6/11/14	1737	Brad M. Corone	6/11/14	1737	20.1 X AC X
							18.6
							21.9

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Brad M. Corone**

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed (MM/DD/YYYY): **06/11/14**

ORIGINAL

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: **2** of **1822940**

Section A

Required Client Information:

Company: **The Jewel in Grand**
 Address: **10125 Coonstown Circle**
Eden Prairie, MN 55349
 Email To: _____
 Phone: **952-380-7668**
 Fax: _____
 Requested Due Date/TAT: **Normal**

Section B

Required Project Information:

Report To: **Kevin Pierson**
 Copy To: _____
 Purchase Order No.: _____
 Project Name: **For. Coors Given Mfg.**
 Project Number: **2013-PA183-0061**

Section C

Invoice Information:

Attention: **Same**
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: **Kabar Xiong**
 Pace Profile #: _____

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location

STATE: _____

ITEM #

Section D

Required Client Information

Matrix Codes
 MATRIX_CODE
 DW Drinking Water
 WT Water
 WW Wastes Water
 P Product
 SL Soil/Solid
 OL Oil
 WP Wipe
 AR Air
 TS Tissue
 OT Other

SAMPLE ID

(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

MATRIX CODE (see valid codes to left)

SAMPLE TYPE (G=GRAB C=COMP)

COLLECTED

COMPOSITE START

DATE

TIME

COMPOSITE END/GRAB

DATE

TIME

OF CONTAINERS

Preservatives

Unpreserved

H₂SO₄

HNO₃

HCl

NaOH

Na₂O₃

Methanol

Other

Analysis Test ↓

Y/N ↑

Requested Analysis Filtered (Y/N)

Residual Chlorine (Y/N)

Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE CONDITIONS

Received on

Ice (Y/N)

Custody

Sealed Cooler

(Y/N)

Temp in °C

Samples Intact

(Y/N)

F-ALL-Q-020rev.07, 15-May-2007

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

ORIGINAL

SAMPLER NAME AND SIGNATURE


PRINT Name of SAMPLER: **Brad M. Cordova**

SIGNATURE of SAMPLER: *Brad M. Cordova*

DATE Signed (MM/DD/YY): **06/11/14**

ITEM #	MATRIX CODE	SAMPLE TYPE	COLLECTED	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered	Residual Chlorine	Pace Project No./ Lab I.D.	ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Received on	Ice (Y/N)	Custody	Sealed Cooler	(Y/N)	Temp in °C	Samples Intact	(Y/N)
1	GP-17	1.5'																							013
2	GP-18	1.5'																							014
3	GP-19	1.5'																							015
4	GP-21	1.5'																							016
5	HA-1	1.5'																							017
6	HA-2	3'																							018
7	HA-3	3'																							019
8	HA-4	3'																							020
9	HA-5	3'																							021
10																									022
11																									
12																									

Additional handwritten notes and signatures in the table area, including dates like 6/11/2014 and 6/11/14, and names like Brad M. Cordova.

Sample Condition Upon Receipt	Client Name: <u>The Samelin Group</u>	Project #: <u>WO# : 10270417</u>
	Courier: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input checked="" type="checkbox"/> Client <input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input type="checkbox"/> SpeedDee <input type="checkbox"/> Other: _____	

Tracking Number: _____
 Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: _____ Proj. Name: _____
 Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No
 Thermom. Used: B88A9130516413 B88A912167504 B88A9132521491 Type of Ice: Wet Blue None Samples on ice, cooling process has begun
 Cooler Temp Read (°C): 20.5, 18.6 Cooler Temp Corrected (°C): 20.1, 18.6, 21.8 Biological Tissue Frozen? Yes No N/A
 Temp should be above freezing to 6°C Correction Factor: True, -0.4 Date and Initials of Person Examining Contents: 6-11-14/MS

			Comments:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	12. <u>GP-15 not received sample received w/no labels</u>
-Includes Date/Time/ID/Analysis Matrix: <u>82</u>			
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>010814-3</u>			

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: Kevin Pierson Date/Time: 6-12-14 9:03
 Comments/Resolution: client confirmed containers with no labels one sample GP-15 1.5. Temp ch, cooling process.

Project Manager Review: Kathy Young Date: June 12, 2014
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

June 25, 2014

Kevin Pierson
The Javelin Group
10125 Crosstown Circle
Suite 107
Eden Prairie, MN 55344

RE: Project: 2012-P0183-0061 Former Gross G
Pace Project No.: 10270522

Dear Kevin Pierson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dennsa Mohamed for
Kabor Xiong
kabor.xiong@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #40770

Alabama Certification #40770

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #: Pace

Georgia Certification #: 959

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

Wisconsin Certification #: 999407970

West Virginia Certification #: 382

West Virginia TO-15 Approval

West Virginia DHHR #:9952C

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10270522001	GP-1 (10-15)	Water	06/11/14 11:00	06/12/14 10:42
10270522002	GP-3 (10-15)	Water	06/11/14 11:05	06/12/14 10:42
10270522003	GP-11 (10-15)	Water	06/11/14 11:10	06/12/14 10:42
10270522004	GP-12 (5-10)	Water	06/11/14 11:15	06/12/14 10:42
10270522005	GP-13 (10-15)	Water	06/11/14 11:20	06/12/14 10:42
10270522006	GP-14 (10-15)	Water	06/11/14 11:25	06/12/14 10:42
10270522007	GP-15 (10-15)	Water	06/11/14 11:30	06/12/14 10:42
10270522008	GP-16 (10-15)	Water	06/11/14 11:35	06/12/14 10:42
10270522009	GP-17 (10-15)	Water	06/11/14 11:40	06/12/14 10:42
10270522010	GP-7 (10-15)	Water	06/11/14 11:45	06/12/14 10:42
10270522011	Trip Blank	Water	06/11/14 00:00	06/12/14 10:42

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2012-P0183-0061 Former Gross G
Pace Project No.: 10270522

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10270522001	GP-1 (10-15)	WI MOD DRO	JRH	2
		WI MOD GRO	LLC	2
		EPA 8270 by SIM	HBP	18
10270522002	GP-3 (10-15)	EPA 8260	SH2	70
		EPA 8270 by SIM	HBP	18
10270522003	GP-11 (10-15)	EPA 8260	SH2	70
		WI MOD DRO	JRH	2
		EPA 8270 by SIM	HBP	18
10270522004	GP-12 (5-10)	EPA 8260	SH2	70
		WI MOD DRO	JRH	2
		EPA 8270 by SIM	HBP	18
10270522005	GP-13 (10-15)	EPA 8260	SH2	70
		WI MOD DRO	JRH	2
		WI MOD GRO	LLC	2
10270522006	GP-14 (10-15)	EPA 8270 by SIM	HBP	18
		WI MOD DRO	JRH	2
		WI MOD GRO	LLC	2
10270522007	GP-15 (10-15)	EPA 8270 by SIM	HBP	18
		EPA 8260	SH2	70
		WI MOD DRO	JRH	2
10270522008	GP-16 (10-15)	WI MOD GRO	LLC	2
		EPA 8260	SH2	70
		EPA 8270 by SIM	HBP	18
10270522009	GP-17 (10-15)	EPA 8260	SH2	70
		WI MOD DRO	JRH	2
		WI MOD GRO	LLC	2
10270522010	GP-7 (10-15)	EPA 8270 by SIM	HBP	18
		EPA 8260	SH2	70
		WI MOD DRO	JRH	2
10270522011	Trip Blank	WI MOD GRO	MS2	2
		EPA 8260	SH2	70

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Method: WI MOD DRO

Description: WIDRO GCS

Client: The Javelin Group

Date: June 25, 2014

General Information:

8 samples were analyzed for WI MOD DRO. All samples were received in acceptable condition with any exceptions noted below.

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.

- GP-1 (10-15) (Lab ID: 10270522001)
- GP-11 (10-15) (Lab ID: 10270522003)
- GP-12 (5-10) (Lab ID: 10270522004)
- GP-13 (10-15) (Lab ID: 10270522005)
- GP-15 (10-15) (Lab ID: 10270522007)
- GP-7 (10-15) (Lab ID: 10270522010)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/25359

T7: Low boiling point hydrocarbons are present in the sample.

- GP-7 (10-15) (Lab ID: 10270522010)
 - Diesel Range Organics

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Method: WI MOD GRO

Description: WIGRO GCV

Client: The Javelin Group

Date: June 25, 2014

General Information:

7 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Method: EPA 8270 by SIM

Description: 8270 MSSV PAH by SIM

Client: The Javelin Group

Date: June 25, 2014

General Information:

9 samples were analyzed for EPA 8270 by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/25374

S5: Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

- GP-15 (10-15) (Lab ID: 10270522007)
- Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/25374

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10270714007

R1: RPD value was outside control limits.

- MSD (Lab ID: 1708255)
 - Benzo(g,h,i)perylene
 - Dibenz(a,h)anthracene
 - Fluoranthene
 - Indeno(1,2,3-cd)pyrene

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PROJECT NARRATIVE

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Method: EPA 8270 by SIM

Description: 8270 MSSV PAH by SIM

Client: The Javelin Group

Date: June 25, 2014

Additional Comments:

Analyte Comments:

QC Batch: OEXT/25374

1M: Low surrogate recovery due to emulsion being present during extraction.

- GP-15 (10-15) (Lab ID: 10270522007)

- Terphenyl-d14 (S)

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PROJECT NARRATIVE

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Method: EPA 8260

Description: 8260 VOC

Client: The Javelin Group

Date: June 25, 2014

General Information:

10 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Sample Project No.: 10270522

Sample: GP-1 (10-15)		Lab ID: 10270522001		Collected: 06/11/14 11:00		Received: 06/12/14 10:42		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	0.34	mg/L	0.11	0.023	1	06/13/14 07:06	06/14/14 20:13		
Surrogates									
n-Triacontane (S)	85	%	50-150		1	06/13/14 07:06	06/14/14 20:13	638-68-6	P4
WIGRO GCV Analytical Method: WI MOD GRO									
Gasoline Range Organics	ND	ug/L	100	50.0	1		06/20/14 21:54		
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-125		1		06/20/14 21:54	98-08-8	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	0.046	0.0062	1	06/16/14 07:18	06/17/14 16:34	83-32-9	
Acenaphthylene	ND	ug/L	0.046	0.0063	1	06/16/14 07:18	06/17/14 16:34	208-96-8	
Anthracene	ND	ug/L	0.046	0.0060	1	06/16/14 07:18	06/17/14 16:34	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.046	0.0079	1	06/16/14 07:18	06/17/14 16:34	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.046	0.0076	1	06/16/14 07:18	06/17/14 16:34	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.046	0.0074	1	06/16/14 07:18	06/17/14 16:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.046	0.0067	1	06/16/14 07:18	06/17/14 16:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.046	0.0079	1	06/16/14 07:18	06/17/14 16:34	207-08-9	
Chrysene	ND	ug/L	0.046	0.0072	1	06/16/14 07:18	06/17/14 16:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.046	0.0064	1	06/16/14 07:18	06/17/14 16:34	53-70-3	
Fluoranthene	ND	ug/L	0.046	0.014	1	06/16/14 07:18	06/17/14 16:34	206-44-0	
Fluorene	ND	ug/L	0.046	0.0057	1	06/16/14 07:18	06/17/14 16:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.046	0.0059	1	06/16/14 07:18	06/17/14 16:34	193-39-5	
Naphthalene	0.066	ug/L	0.046	0.0097	1	06/16/14 07:18	06/17/14 16:34	91-20-3	
Phenanthrene	0.096	ug/L	0.046	0.0095	1	06/16/14 07:18	06/17/14 16:34	85-01-8	
Pyrene	ND	ug/L	0.046	0.015	1	06/16/14 07:18	06/17/14 16:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	89	%	54-125		1	06/16/14 07:18	06/17/14 16:34	321-60-8	
Terphenyl-d14 (S)	110	%	68-125		1	06/16/14 07:18	06/17/14 16:34	1718-51-0	
8260 VOC Analytical Method: EPA 8260									
Acetone	ND	ug/L	20.0	10.0	1		06/14/14 05:52	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.45	1		06/14/14 05:52	107-05-1	
Benzene	ND	ug/L	1.0	0.15	1		06/14/14 05:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.13	1		06/14/14 05:52	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.12	1		06/14/14 05:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.20	1		06/14/14 05:52	75-27-4	
Bromoform	ND	ug/L	4.0	2.0	1		06/14/14 05:52	75-25-2	
Bromomethane	ND	ug/L	4.0	2.0	1		06/14/14 05:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	2.5	1		06/14/14 05:52	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.50	1		06/14/14 05:52	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.50	1		06/14/14 05:52	135-98-8	
tert-Butylbenzene	1.2	ug/L	1.0	0.50	1		06/14/14 05:52	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.16	1		06/14/14 05:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.066	1		06/14/14 05:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.24	1		06/14/14 05:52	75-00-3	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Sample Project No.: 10270522

Sample: GP-1 (10-15) **Lab ID: 10270522001** Collected: 06/11/14 11:00 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
Chloroform	ND ug/L		1.0	0.16	1		06/14/14 05:52	67-66-3	
Chloromethane	ND ug/L		4.0	0.34	1		06/14/14 05:52	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.14	1		06/14/14 05:52	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.083	1		06/14/14 05:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	2.0	1		06/14/14 05:52	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.50	1		06/14/14 05:52	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.15	1		06/14/14 05:52	106-93-4	
Dibromomethane	ND ug/L		4.0	0.18	1		06/14/14 05:52	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.16	1		06/14/14 05:52	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 05:52	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 05:52	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.50	1		06/14/14 05:52	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.16	1		06/14/14 05:52	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.13	1		06/14/14 05:52	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.20	1		06/14/14 05:52	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.13	1		06/14/14 05:52	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.23	1		06/14/14 05:52	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.20	1		06/14/14 05:52	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.14	1		06/14/14 05:52	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.50	1		06/14/14 05:52	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.17	1		06/14/14 05:52	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.50	1		06/14/14 05:52	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.13	1		06/14/14 05:52	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	0.18	1		06/14/14 05:52	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	0.14	1		06/14/14 05:52	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.16	1		06/14/14 05:52	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.50	1		06/14/14 05:52	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.50	1		06/14/14 05:52	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.50	1		06/14/14 05:52	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		06/14/14 05:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		06/14/14 05:52	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.17	1		06/14/14 05:52	1634-04-4	
Naphthalene	ND ug/L		4.0	2.0	1		06/14/14 05:52	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.50	1		06/14/14 05:52	103-65-1	
Styrene	ND ug/L		1.0	0.063	1		06/14/14 05:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		06/14/14 05:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		06/14/14 05:52	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.16	1		06/14/14 05:52	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	2.0	1		06/14/14 05:52	109-99-9	
Toluene	ND ug/L		1.0	0.11	1		06/14/14 05:52	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 05:52	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 05:52	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.26	1		06/14/14 05:52	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.13	1		06/14/14 05:52	79-00-5	
Trichloroethene	ND ug/L		0.40	0.091	1		06/14/14 05:52	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.22	1		06/14/14 05:52	75-69-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-1 (10-15)		Lab ID: 10270522001		Collected: 06/11/14 11:00		Received: 06/12/14 10:42		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
1,2,3-Trichloropropane	ND ug/L		4.0	1.2	1		06/14/14 05:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.50	1		06/14/14 05:52	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	0.50	1		06/14/14 05:52	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.50	1		06/14/14 05:52	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.20	1		06/14/14 05:52	75-01-4	
Xylene (Total)	ND ug/L		3.0	0.40	1		06/14/14 05:52	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104 %.		75-125		1		06/14/14 05:52	17060-07-0	
Toluene-d8 (S)	99 %.		75-125		1		06/14/14 05:52	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125		1		06/14/14 05:52	460-00-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-3 (10-15) **Lab ID: 10270522002** Collected: 06/11/14 11:05 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM					Preparation Method: EPA 3510				
Acenaphthene	1.1 ug/L		0.053	0.0072	1	06/16/14 07:18	06/17/14 16:54	83-32-9	
Acenaphthylene	ND ug/L		0.053	0.0073	1	06/16/14 07:18	06/17/14 16:54	208-96-8	
Anthracene	0.47 ug/L		0.053	0.0069	1	06/16/14 07:18	06/17/14 16:54	120-12-7	
Benzo(a)anthracene	0.17 ug/L		0.053	0.0092	1	06/16/14 07:18	06/17/14 16:54	56-55-3	
Benzo(a)pyrene	0.17 ug/L		0.053	0.0088	1	06/16/14 07:18	06/17/14 16:54	50-32-8	
Benzo(b)fluoranthene	0.15 ug/L		0.053	0.0085	1	06/16/14 07:18	06/17/14 16:54	205-99-2	
Benzo(g,h,i)perylene	0.081 ug/L		0.053	0.0077	1	06/16/14 07:18	06/17/14 16:54	191-24-2	
Benzo(k)fluoranthene	0.074 ug/L		0.053	0.0092	1	06/16/14 07:18	06/17/14 16:54	207-08-9	
Chrysene	0.21 ug/L		0.053	0.0084	1	06/16/14 07:18	06/17/14 16:54	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.053	0.0075	1	06/16/14 07:18	06/17/14 16:54	53-70-3	
Fluoranthene	0.48 ug/L		0.053	0.016	1	06/16/14 07:18	06/17/14 16:54	206-44-0	
Fluorene	1.2 ug/L		0.053	0.0067	1	06/16/14 07:18	06/17/14 16:54	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.053	0.0068	1	06/16/14 07:18	06/17/14 16:54	193-39-5	
Naphthalene	15.1 ug/L		0.11	0.022	2	06/16/14 07:18	06/18/14 16:23	91-20-3	
Phenanthrene	2.3 ug/L		0.053	0.011	1	06/16/14 07:18	06/17/14 16:54	85-01-8	
Pyrene	0.52 ug/L		0.053	0.017	1	06/16/14 07:18	06/17/14 16:54	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76 %.		54-125		1	06/16/14 07:18	06/17/14 16:54	321-60-8	
Terphenyl-d14 (S)	73 %.		68-125		1	06/16/14 07:18	06/17/14 16:54	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	ND ug/L		20.0	10.0	1		06/14/14 06:06	67-64-1	
Allyl chloride	ND ug/L		4.0	0.45	1		06/14/14 06:06	107-05-1	
Benzene	ND ug/L		1.0	0.15	1		06/14/14 06:06	71-43-2	
Bromobenzene	ND ug/L		1.0	0.13	1		06/14/14 06:06	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.12	1		06/14/14 06:06	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.20	1		06/14/14 06:06	75-27-4	
Bromoform	ND ug/L		4.0	2.0	1		06/14/14 06:06	75-25-2	
Bromomethane	ND ug/L		4.0	2.0	1		06/14/14 06:06	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	2.5	1		06/14/14 06:06	78-93-3	
n-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:06	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:06	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:06	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	0.16	1		06/14/14 06:06	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.066	1		06/14/14 06:06	108-90-7	
Chloroethane	ND ug/L		1.0	0.24	1		06/14/14 06:06	75-00-3	
Chloroform	ND ug/L		1.0	0.16	1		06/14/14 06:06	67-66-3	
Chloromethane	ND ug/L		4.0	0.34	1		06/14/14 06:06	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.14	1		06/14/14 06:06	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.083	1		06/14/14 06:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	2.0	1		06/14/14 06:06	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.50	1		06/14/14 06:06	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.15	1		06/14/14 06:06	106-93-4	
Dibromomethane	ND ug/L		4.0	0.18	1		06/14/14 06:06	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.16	1		06/14/14 06:06	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 06:06	541-73-1	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Sample Project No.: 10270522

Sample: GP-3 (10-15) **Lab ID: 10270522002** Collected: 06/11/14 11:05 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
1,4-Dichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 06:06	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.50	1		06/14/14 06:06	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.16	1		06/14/14 06:06	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.13	1		06/14/14 06:06	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.20	1		06/14/14 06:06	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.13	1		06/14/14 06:06	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.23	1		06/14/14 06:06	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.20	1		06/14/14 06:06	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.14	1		06/14/14 06:06	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.50	1		06/14/14 06:06	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.17	1		06/14/14 06:06	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.50	1		06/14/14 06:06	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.13	1		06/14/14 06:06	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	0.18	1		06/14/14 06:06	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	0.14	1		06/14/14 06:06	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.16	1		06/14/14 06:06	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.50	1		06/14/14 06:06	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.50	1		06/14/14 06:06	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.50	1		06/14/14 06:06	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		06/14/14 06:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		06/14/14 06:06	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.17	1		06/14/14 06:06	1634-04-4	
Naphthalene	ND ug/L		4.0	2.0	1		06/14/14 06:06	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:06	103-65-1	
Styrene	ND ug/L		1.0	0.063	1		06/14/14 06:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		06/14/14 06:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		06/14/14 06:06	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.16	1		06/14/14 06:06	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	2.0	1		06/14/14 06:06	109-99-9	
Toluene	ND ug/L		1.0	0.11	1		06/14/14 06:06	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 06:06	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 06:06	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.26	1		06/14/14 06:06	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.13	1		06/14/14 06:06	79-00-5	
Trichloroethene	ND ug/L		0.40	0.091	1		06/14/14 06:06	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.22	1		06/14/14 06:06	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1.2	1		06/14/14 06:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.50	1		06/14/14 06:06	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:06	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:06	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.20	1		06/14/14 06:06	75-01-4	
Xylene (Total)	ND ug/L		3.0	0.40	1		06/14/14 06:06	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	105 %.		75-125		1		06/14/14 06:06	17060-07-0	
Toluene-d8 (S)	103 %.		75-125		1		06/14/14 06:06	2037-26-5	
4-Bromofluorobenzene (S)	96 %.		75-125		1		06/14/14 06:06	460-00-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-11 (10-15) **Lab ID: 10270522003** Collected: 06/11/14 11:10 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
WIDRO GCS									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	0.22 mg/L		0.11	0.024	1	06/13/14 07:06	06/14/14 20:20		
Surrogates									
n-Triacontane (S)	79 %.		50-150		1	06/13/14 07:06	06/14/14 20:20	638-68-6	P4
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	ND ug/L		0.045	0.0061	1	06/16/14 07:18	06/17/14 17:13	83-32-9	
Acenaphthylene	ND ug/L		0.045	0.0063	1	06/16/14 07:18	06/17/14 17:13	208-96-8	
Anthracene	ND ug/L		0.045	0.0059	1	06/16/14 07:18	06/17/14 17:13	120-12-7	
Benzo(a)anthracene	ND ug/L		0.045	0.0078	1	06/16/14 07:18	06/17/14 17:13	56-55-3	
Benzo(a)pyrene	ND ug/L		0.045	0.0075	1	06/16/14 07:18	06/17/14 17:13	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.045	0.0073	1	06/16/14 07:18	06/17/14 17:13	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.045	0.0066	1	06/16/14 07:18	06/17/14 17:13	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.045	0.0078	1	06/16/14 07:18	06/17/14 17:13	207-08-9	
Chrysene	ND ug/L		0.045	0.0072	1	06/16/14 07:18	06/17/14 17:13	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.045	0.0064	1	06/16/14 07:18	06/17/14 17:13	53-70-3	
Fluoranthene	ND ug/L		0.045	0.014	1	06/16/14 07:18	06/17/14 17:13	206-44-0	
Fluorene	ND ug/L		0.045	0.0057	1	06/16/14 07:18	06/17/14 17:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.045	0.0058	1	06/16/14 07:18	06/17/14 17:13	193-39-5	
Naphthalene	ND ug/L		0.045	0.0095	1	06/16/14 07:18	06/17/14 17:13	91-20-3	
Phenanthrene	ND ug/L		0.045	0.0094	1	06/16/14 07:18	06/17/14 17:13	85-01-8	
Pyrene	ND ug/L		0.045	0.015	1	06/16/14 07:18	06/17/14 17:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	93 %.		54-125		1	06/16/14 07:18	06/17/14 17:13	321-60-8	
Terphenyl-d14 (S)	101 %.		68-125		1	06/16/14 07:18	06/17/14 17:13	1718-51-0	
8260 VOC									
Analytical Method: EPA 8260									
Acetone	ND ug/L		20.0	10.0	1		06/14/14 06:21	67-64-1	
Allyl chloride	ND ug/L		4.0	0.45	1		06/14/14 06:21	107-05-1	
Benzene	ND ug/L		1.0	0.15	1		06/14/14 06:21	71-43-2	
Bromobenzene	ND ug/L		1.0	0.13	1		06/14/14 06:21	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.12	1		06/14/14 06:21	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.20	1		06/14/14 06:21	75-27-4	
Bromoform	ND ug/L		4.0	2.0	1		06/14/14 06:21	75-25-2	
Bromomethane	ND ug/L		4.0	2.0	1		06/14/14 06:21	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	2.5	1		06/14/14 06:21	78-93-3	
n-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:21	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:21	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:21	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	0.16	1		06/14/14 06:21	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.066	1		06/14/14 06:21	108-90-7	
Chloroethane	ND ug/L		1.0	0.24	1		06/14/14 06:21	75-00-3	
Chloroform	ND ug/L		1.0	0.16	1		06/14/14 06:21	67-66-3	
Chloromethane	ND ug/L		4.0	0.34	1		06/14/14 06:21	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.14	1		06/14/14 06:21	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.083	1		06/14/14 06:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	2.0	1		06/14/14 06:21	96-12-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-11 (10-15) **Lab ID: 10270522003** Collected: 06/11/14 11:10 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	ND ug/L		1.0	0.50	1		06/14/14 06:21	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.15	1		06/14/14 06:21	106-93-4	
Dibromomethane	ND ug/L		4.0	0.18	1		06/14/14 06:21	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.16	1		06/14/14 06:21	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 06:21	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 06:21	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.50	1		06/14/14 06:21	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.16	1		06/14/14 06:21	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.13	1		06/14/14 06:21	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.20	1		06/14/14 06:21	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.13	1		06/14/14 06:21	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.23	1		06/14/14 06:21	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.20	1		06/14/14 06:21	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.14	1		06/14/14 06:21	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.50	1		06/14/14 06:21	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.17	1		06/14/14 06:21	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.50	1		06/14/14 06:21	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.13	1		06/14/14 06:21	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	0.18	1		06/14/14 06:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	0.14	1		06/14/14 06:21	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.16	1		06/14/14 06:21	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.50	1		06/14/14 06:21	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.50	1		06/14/14 06:21	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.50	1		06/14/14 06:21	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		06/14/14 06:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		06/14/14 06:21	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.17	1		06/14/14 06:21	1634-04-4	
Naphthalene	ND ug/L		4.0	2.0	1		06/14/14 06:21	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:21	103-65-1	
Styrene	ND ug/L		1.0	0.063	1		06/14/14 06:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		06/14/14 06:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		06/14/14 06:21	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.16	1		06/14/14 06:21	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	2.0	1		06/14/14 06:21	109-99-9	
Toluene	ND ug/L		1.0	0.11	1		06/14/14 06:21	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 06:21	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 06:21	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.26	1		06/14/14 06:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.13	1		06/14/14 06:21	79-00-5	
Trichloroethene	ND ug/L		0.40	0.091	1		06/14/14 06:21	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.22	1		06/14/14 06:21	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1.2	1		06/14/14 06:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.50	1		06/14/14 06:21	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:21	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:21	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.20	1		06/14/14 06:21	75-01-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-11 (10-15)		Lab ID: 10270522003		Collected: 06/11/14 11:10		Received: 06/12/14 10:42		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	3.0	0.40	1		06/14/14 06:21	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	107 %.		75-125		1		06/14/14 06:21	17060-07-0	
Toluene-d8 (S)	98 %.		75-125		1		06/14/14 06:21	2037-26-5	
4-Bromofluorobenzene (S)	116 %.		75-125		1		06/14/14 06:21	460-00-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-12 (5-10) **Lab ID: 10270522004** Collected: 06/11/14 11:15 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	0.25 mg/L		0.12	0.025	1	06/13/14 07:06	06/14/14 18:47		
Surrogates									
n-Triacontane (S)	90 %.		50-150		1	06/13/14 07:06	06/14/14 18:47	638-68-6	P4
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	ND ug/L		0.051	0.0069	1	06/16/14 07:18	06/17/14 23:48	83-32-9	
Acenaphthylene	0.082 ug/L		0.051	0.0070	1	06/16/14 07:18	06/17/14 23:48	208-96-8	
Anthracene	0.10 ug/L		0.051	0.0066	1	06/16/14 07:18	06/17/14 23:48	120-12-7	
Benzo(a)anthracene	0.37 ug/L		0.051	0.0088	1	06/16/14 07:18	06/17/14 23:48	56-55-3	
Benzo(a)pyrene	0.58 ug/L		0.051	0.0084	1	06/16/14 07:18	06/17/14 23:48	50-32-8	
Benzo(b)fluoranthene	0.60 ug/L		0.051	0.0082	1	06/16/14 07:18	06/17/14 23:48	205-99-2	
Benzo(g,h,i)perylene	0.67 ug/L		0.051	0.0074	1	06/16/14 07:18	06/17/14 23:48	191-24-2	
Benzo(k)fluoranthene	0.22 ug/L		0.051	0.0088	1	06/16/14 07:18	06/17/14 23:48	207-08-9	
Chrysene	0.48 ug/L		0.051	0.0080	1	06/16/14 07:18	06/17/14 23:48	218-01-9	
Dibenz(a,h)anthracene	0.095 ug/L		0.051	0.0071	1	06/16/14 07:18	06/17/14 23:48	53-70-3	
Fluoranthene	0.56 ug/L		0.051	0.015	1	06/16/14 07:18	06/17/14 23:48	206-44-0	
Fluorene	ND ug/L		0.051	0.0064	1	06/16/14 07:18	06/17/14 23:48	86-73-7	
Indeno(1,2,3-cd)pyrene	0.32 ug/L		0.051	0.0065	1	06/16/14 07:18	06/17/14 23:48	193-39-5	
Naphthalene	0.061 ug/L		0.051	0.011	1	06/16/14 07:18	06/17/14 23:48	91-20-3	
Phenanthrene	0.28 ug/L		0.051	0.011	1	06/16/14 07:18	06/17/14 23:48	85-01-8	
Pyrene	0.74 ug/L		0.051	0.016	1	06/16/14 07:18	06/17/14 23:48	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	82 %.		54-125		1	06/16/14 07:18	06/17/14 23:48	321-60-8	
Terphenyl-d14 (S)	90 %.		68-125		1	06/16/14 07:18	06/17/14 23:48	1718-51-0	
8260 VOC Analytical Method: EPA 8260									
Acetone	ND ug/L		20.0	10.0	1		06/14/14 06:35	67-64-1	
Allyl chloride	ND ug/L		4.0	0.45	1		06/14/14 06:35	107-05-1	
Benzene	ND ug/L		1.0	0.15	1		06/14/14 06:35	71-43-2	
Bromobenzene	ND ug/L		1.0	0.13	1		06/14/14 06:35	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.12	1		06/14/14 06:35	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.20	1		06/14/14 06:35	75-27-4	
Bromoform	ND ug/L		4.0	2.0	1		06/14/14 06:35	75-25-2	
Bromomethane	ND ug/L		4.0	2.0	1		06/14/14 06:35	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	2.5	1		06/14/14 06:35	78-93-3	
n-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:35	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:35	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 06:35	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	0.16	1		06/14/14 06:35	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.066	1		06/14/14 06:35	108-90-7	
Chloroethane	ND ug/L		1.0	0.24	1		06/14/14 06:35	75-00-3	
Chloroform	ND ug/L		1.0	0.16	1		06/14/14 06:35	67-66-3	
Chloromethane	ND ug/L		4.0	0.34	1		06/14/14 06:35	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.14	1		06/14/14 06:35	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.083	1		06/14/14 06:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	2.0	1		06/14/14 06:35	96-12-8	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-12 (5-10) **Lab ID: 10270522004** Collected: 06/11/14 11:15 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
Dibromochloromethane	ND	ug/L	1.0	0.50	1		06/14/14 06:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.15	1		06/14/14 06:35	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.18	1		06/14/14 06:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.16	1		06/14/14 06:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.50	1		06/14/14 06:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.50	1		06/14/14 06:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.50	1		06/14/14 06:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.16	1		06/14/14 06:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.13	1		06/14/14 06:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		06/14/14 06:35	75-35-4	
cis-1,2-Dichloroethene	2.3	ug/L	1.0	0.13	1		06/14/14 06:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.23	1		06/14/14 06:35	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/14/14 06:35	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.14	1		06/14/14 06:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.50	1		06/14/14 06:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.17	1		06/14/14 06:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.50	1		06/14/14 06:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.13	1		06/14/14 06:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.18	1		06/14/14 06:35	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.14	1		06/14/14 06:35	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.16	1		06/14/14 06:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.50	1		06/14/14 06:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.50	1		06/14/14 06:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.50	1		06/14/14 06:35	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2.0	1		06/14/14 06:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	2.5	1		06/14/14 06:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		06/14/14 06:35	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.0	1		06/14/14 06:35	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.50	1		06/14/14 06:35	103-65-1	
Styrene	ND	ug/L	1.0	0.063	1		06/14/14 06:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/14/14 06:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/14/14 06:35	79-34-5	
Tetrachloroethene	8.3	ug/L	1.0	0.16	1		06/14/14 06:35	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2.0	1		06/14/14 06:35	109-99-9	
Toluene	ND	ug/L	1.0	0.11	1		06/14/14 06:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.50	1		06/14/14 06:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.50	1		06/14/14 06:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.26	1		06/14/14 06:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.13	1		06/14/14 06:35	79-00-5	
Trichloroethene	0.49	ug/L	0.40	0.091	1		06/14/14 06:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.22	1		06/14/14 06:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1.2	1		06/14/14 06:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.50	1		06/14/14 06:35	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.50	1		06/14/14 06:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.50	1		06/14/14 06:35	108-67-8	
Vinyl chloride	0.51	ug/L	0.40	0.20	1		06/14/14 06:35	75-01-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-12 (5-10)		Lab ID: 10270522004		Collected: 06/11/14 11:15	Received: 06/12/14 10:42	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	3.0	0.40	1		06/14/14 06:35	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	98 %.		75-125		1		06/14/14 06:35	17060-07-0	
Toluene-d8 (S)	117 %.		75-125		1		06/14/14 06:35	2037-26-5	
4-Bromofluorobenzene (S)	95 %.		75-125		1		06/14/14 06:35	460-00-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-13 (10-15) Lab ID: 10270522005 Collected: 06/11/14 11:20 Received: 06/12/14 10:42 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	ND	mg/L	0.11	0.024	1	06/13/14 07:06	06/14/14 19:16		
Surrogates									
n-Triacontane (S)	80 %.		50-150		1	06/13/14 07:06	06/14/14 19:16	638-68-6	P4
WIGRO GCV Analytical Method: WI MOD GRO									
Gasoline Range Organics	ND	ug/L	100	50.0	1		06/20/14 22:17		
Surrogates									
a,a,a-Trifluorotoluene (S)	97 %.		80-125		1		06/20/14 22:17	98-08-8	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	0.045	0.0061	1	06/16/14 07:18	06/17/14 17:33	83-32-9	
Acenaphthylene	ND	ug/L	0.045	0.0062	1	06/16/14 07:18	06/17/14 17:33	208-96-8	
Anthracene	ND	ug/L	0.045	0.0058	1	06/16/14 07:18	06/17/14 17:33	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.045	0.0078	1	06/16/14 07:18	06/17/14 17:33	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.045	0.0074	1	06/16/14 07:18	06/17/14 17:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.045	0.0072	1	06/16/14 07:18	06/17/14 17:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.045	0.0065	1	06/16/14 07:18	06/17/14 17:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.045	0.0078	1	06/16/14 07:18	06/17/14 17:33	207-08-9	
Chrysene	ND	ug/L	0.045	0.0071	1	06/16/14 07:18	06/17/14 17:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.045	0.0063	1	06/16/14 07:18	06/17/14 17:33	53-70-3	
Fluoranthene	ND	ug/L	0.045	0.014	1	06/16/14 07:18	06/17/14 17:33	206-44-0	
Fluorene	ND	ug/L	0.045	0.0056	1	06/16/14 07:18	06/17/14 17:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.045	0.0057	1	06/16/14 07:18	06/17/14 17:33	193-39-5	
Naphthalene	ND	ug/L	0.045	0.0094	1	06/16/14 07:18	06/17/14 17:33	91-20-3	
Phenanthrene	ND	ug/L	0.045	0.0093	1	06/16/14 07:18	06/17/14 17:33	85-01-8	
Pyrene	ND	ug/L	0.045	0.014	1	06/16/14 07:18	06/17/14 17:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	77 %.		54-125		1	06/16/14 07:18	06/17/14 17:33	321-60-8	
Terphenyl-d14 (S)	92 %.		68-125		1	06/16/14 07:18	06/17/14 17:33	1718-51-0	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-14 (10-15) Lab ID: 10270522006 Collected: 06/11/14 11:25 Received: 06/12/14 10:42 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	0.56	mg/L	0.11	0.023	1	06/13/14 07:06	06/14/14 20:28		
Surrogates									
n-Triacontane (S)	90 %.		50-150		1	06/13/14 07:06	06/14/14 20:28	638-68-6	
WIGRO GCV Analytical Method: WI MOD GRO									
Gasoline Range Organics	ND	ug/L	100	50.0	1		06/20/14 22:39		
Surrogates									
a,a,a-Trifluorotoluene (S)	97 %.		80-125		1		06/20/14 22:39	98-08-8	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	0.048	ug/L	0.045	0.0061	1	06/16/14 07:18	06/17/14 17:53	83-32-9	
Acenaphthylene	ND	ug/L	0.045	0.0062	1	06/16/14 07:18	06/17/14 17:53	208-96-8	
Anthracene	ND	ug/L	0.045	0.0058	1	06/16/14 07:18	06/17/14 17:53	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.045	0.0078	1	06/16/14 07:18	06/17/14 17:53	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.045	0.0074	1	06/16/14 07:18	06/17/14 17:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.045	0.0072	1	06/16/14 07:18	06/17/14 17:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.045	0.0065	1	06/16/14 07:18	06/17/14 17:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.045	0.0078	1	06/16/14 07:18	06/17/14 17:53	207-08-9	
Chrysene	ND	ug/L	0.045	0.0071	1	06/16/14 07:18	06/17/14 17:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.045	0.0063	1	06/16/14 07:18	06/17/14 17:53	53-70-3	
Fluoranthene	ND	ug/L	0.045	0.014	1	06/16/14 07:18	06/17/14 17:53	206-44-0	
Fluorene	ND	ug/L	0.045	0.0056	1	06/16/14 07:18	06/17/14 17:53	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.045	0.0057	1	06/16/14 07:18	06/17/14 17:53	193-39-5	
Naphthalene	ND	ug/L	0.045	0.0094	1	06/16/14 07:18	06/17/14 17:53	91-20-3	
Phenanthrene	0.077	ug/L	0.045	0.0093	1	06/16/14 07:18	06/17/14 17:53	85-01-8	
Pyrene	ND	ug/L	0.045	0.014	1	06/16/14 07:18	06/17/14 17:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	81 %.		54-125		1	06/16/14 07:18	06/17/14 17:53	321-60-8	
Terphenyl-d14 (S)	86 %.		68-125		1	06/16/14 07:18	06/17/14 17:53	1718-51-0	
8260 VOC Analytical Method: EPA 8260									
Acetone	ND	ug/L	20.0	10.0	1		06/16/14 09:53	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.45	1		06/16/14 09:53	107-05-1	
Benzene	ND	ug/L	1.0	0.15	1		06/16/14 09:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.13	1		06/16/14 09:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.12	1		06/16/14 09:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.20	1		06/16/14 09:53	75-27-4	
Bromoform	ND	ug/L	4.0	2.0	1		06/16/14 09:53	75-25-2	
Bromomethane	ND	ug/L	4.0	2.0	1		06/16/14 09:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	2.5	1		06/16/14 09:53	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.16	1		06/16/14 09:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.066	1		06/16/14 09:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.24	1		06/16/14 09:53	75-00-3	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Sample Project No.: 10270522

Sample: GP-14 (10-15) **Lab ID: 10270522006** Collected: 06/11/14 11:25 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
Chloroform	ND	ug/L	1.0	0.16	1		06/16/14 09:53	67-66-3	
Chloromethane	ND	ug/L	4.0	0.34	1		06/16/14 09:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.14	1		06/16/14 09:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.083	1		06/16/14 09:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2.0	1		06/16/14 09:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.50	1		06/16/14 09:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.15	1		06/16/14 09:53	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.18	1		06/16/14 09:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.16	1		06/16/14 09:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.50	1		06/16/14 09:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.16	1		06/16/14 09:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.13	1		06/16/14 09:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		06/16/14 09:53	75-35-4	
cis-1,2-Dichloroethene	2.7	ug/L	1.0	0.13	1		06/16/14 09:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.23	1		06/16/14 09:53	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/16/14 09:53	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.14	1		06/16/14 09:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.50	1		06/16/14 09:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.17	1		06/16/14 09:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.13	1		06/16/14 09:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.18	1		06/16/14 09:53	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.14	1		06/16/14 09:53	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.16	1		06/16/14 09:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.50	1		06/16/14 09:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2.0	1		06/16/14 09:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	2.5	1		06/16/14 09:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		06/16/14 09:53	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.0	1		06/16/14 09:53	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	103-65-1	
Styrene	ND	ug/L	1.0	0.063	1		06/16/14 09:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/16/14 09:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/16/14 09:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		06/16/14 09:53	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2.0	1		06/16/14 09:53	109-99-9	
Toluene	ND	ug/L	1.0	0.11	1		06/16/14 09:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.26	1		06/16/14 09:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.13	1		06/16/14 09:53	79-00-5	
Trichloroethene	10.9	ug/L	0.40	0.091	1		06/16/14 09:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.22	1		06/16/14 09:53	75-69-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-14 (10-15) **Lab ID: 10270522006** Collected: 06/11/14 11:25 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC									
Analytical Method: EPA 8260									
1,2,3-Trichloropropane	ND	ug/L	4.0	1.2	1		06/16/14 09:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.50	1		06/16/14 09:53	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.50	1		06/16/14 09:53	108-67-8	
Vinyl chloride	ND	ug/L	0.40	0.20	1		06/16/14 09:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.40	1		06/16/14 09:53	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		06/16/14 09:53	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1		06/16/14 09:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		06/16/14 09:53	460-00-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Sample Project No.: 10270522

Sample: GP-15 (10-15) Lab ID: 10270522007 Collected: 06/11/14 11:30 Received: 06/12/14 10:42 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	ND	mg/L	0.12	0.025	1	06/13/14 07:06	06/14/14 19:02		
Surrogates									
n-Triacontane (S)	87 %		50-150		1	06/13/14 07:06	06/14/14 19:02	638-68-6	P4
WIGRO GCV Analytical Method: WI MOD GRO									
Gasoline Range Organics	ND	ug/L	100	50.0	1		06/20/14 23:02		
Surrogates									
a,a,a-Trifluorotoluene (S)	99 %		80-125		1		06/20/14 23:02	98-08-8	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	0.041	0.0056	1	06/16/14 07:18	06/17/14 18:13	83-32-9	
Acenaphthylene	ND	ug/L	0.041	0.0057	1	06/16/14 07:18	06/17/14 18:13	208-96-8	
Anthracene	ND	ug/L	0.041	0.0054	1	06/16/14 07:18	06/17/14 18:13	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.041	0.0072	1	06/16/14 07:18	06/17/14 18:13	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.041	0.0068	1	06/16/14 07:18	06/17/14 18:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.041	0.0066	1	06/16/14 07:18	06/17/14 18:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.041	0.0060	1	06/16/14 07:18	06/17/14 18:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.041	0.0072	1	06/16/14 07:18	06/17/14 18:13	207-08-9	
Chrysene	ND	ug/L	0.041	0.0065	1	06/16/14 07:18	06/17/14 18:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.041	0.0058	1	06/16/14 07:18	06/17/14 18:13	53-70-3	
Fluoranthene	ND	ug/L	0.041	0.013	1	06/16/14 07:18	06/17/14 18:13	206-44-0	
Fluorene	ND	ug/L	0.041	0.0052	1	06/16/14 07:18	06/17/14 18:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.041	0.0053	1	06/16/14 07:18	06/17/14 18:13	193-39-5	
Naphthalene	ND	ug/L	0.041	0.0087	1	06/16/14 07:18	06/17/14 18:13	91-20-3	
Phenanthrene	ND	ug/L	0.041	0.0086	1	06/16/14 07:18	06/17/14 18:13	85-01-8	
Pyrene	ND	ug/L	0.041	0.013	1	06/16/14 07:18	06/17/14 18:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73 %		54-125		1	06/16/14 07:18	06/17/14 18:13	321-60-8	
Terphenyl-d14 (S)	63 %		68-125		1	06/16/14 07:18	06/17/14 18:13	1718-51-0	1M,S5
8260 VOC Analytical Method: EPA 8260									
Acetone	ND	ug/L	20.0	10.0	1		06/14/14 07:04	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.45	1		06/14/14 07:04	107-05-1	
Benzene	ND	ug/L	1.0	0.15	1		06/14/14 07:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.13	1		06/14/14 07:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.12	1		06/14/14 07:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.20	1		06/14/14 07:04	75-27-4	
Bromoform	ND	ug/L	4.0	2.0	1		06/14/14 07:04	75-25-2	
Bromomethane	ND	ug/L	4.0	2.0	1		06/14/14 07:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	2.5	1		06/14/14 07:04	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.50	1		06/14/14 07:04	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.50	1		06/14/14 07:04	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.50	1		06/14/14 07:04	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.16	1		06/14/14 07:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.066	1		06/14/14 07:04	108-90-7	
Chloroethane	ND	ug/L	1.0	0.24	1		06/14/14 07:04	75-00-3	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Sample Project No.: 10270522

Sample: GP-15 (10-15) **Lab ID: 10270522007** Collected: 06/11/14 11:30 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
Chloroform	ND ug/L		1.0	0.16	1		06/14/14 07:04	67-66-3	
Chloromethane	ND ug/L		4.0	0.34	1		06/14/14 07:04	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.14	1		06/14/14 07:04	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.083	1		06/14/14 07:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	2.0	1		06/14/14 07:04	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.50	1		06/14/14 07:04	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.15	1		06/14/14 07:04	106-93-4	
Dibromomethane	ND ug/L		4.0	0.18	1		06/14/14 07:04	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.16	1		06/14/14 07:04	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 07:04	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 07:04	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.50	1		06/14/14 07:04	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.16	1		06/14/14 07:04	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.13	1		06/14/14 07:04	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.20	1		06/14/14 07:04	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.13	1		06/14/14 07:04	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.23	1		06/14/14 07:04	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.20	1		06/14/14 07:04	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.14	1		06/14/14 07:04	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.50	1		06/14/14 07:04	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.17	1		06/14/14 07:04	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.50	1		06/14/14 07:04	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.13	1		06/14/14 07:04	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	0.18	1		06/14/14 07:04	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	0.14	1		06/14/14 07:04	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.16	1		06/14/14 07:04	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.50	1		06/14/14 07:04	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.50	1		06/14/14 07:04	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.50	1		06/14/14 07:04	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		06/14/14 07:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		06/14/14 07:04	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.17	1		06/14/14 07:04	1634-04-4	
Naphthalene	ND ug/L		4.0	2.0	1		06/14/14 07:04	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.50	1		06/14/14 07:04	103-65-1	
Styrene	ND ug/L		1.0	0.063	1		06/14/14 07:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		06/14/14 07:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		06/14/14 07:04	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.16	1		06/14/14 07:04	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	2.0	1		06/14/14 07:04	109-99-9	
Toluene	ND ug/L		1.0	0.11	1		06/14/14 07:04	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 07:04	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 07:04	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.26	1		06/14/14 07:04	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.13	1		06/14/14 07:04	79-00-5	
Trichloroethene	ND ug/L		0.40	0.091	1		06/14/14 07:04	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.22	1		06/14/14 07:04	75-69-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-15 (10-15)		Lab ID: 10270522007		Collected: 06/11/14 11:30	Received: 06/12/14 10:42	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
1,2,3-Trichloropropane	ND ug/L		4.0	1.2	1		06/14/14 07:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.50	1		06/14/14 07:04	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	0.50	1		06/14/14 07:04	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.50	1		06/14/14 07:04	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.20	1		06/14/14 07:04	75-01-4	
Xylene (Total)	ND ug/L		3.0	0.40	1		06/14/14 07:04	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96 %.		75-125		1		06/14/14 07:04	17060-07-0	
Toluene-d8 (S)	93 %.		75-125		1		06/14/14 07:04	2037-26-5	
4-Bromofluorobenzene (S)	94 %.		75-125		1		06/14/14 07:04	460-00-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Sample Project No.: 10270522

Sample: GP-16 (10-15) **Lab ID: 10270522008** Collected: 06/11/14 11:35 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC									
Analytical Method: EPA 8260									
Acetone	ND ug/L		20.0	10.0	1		06/14/14 07:18	67-64-1	
Allyl chloride	ND ug/L		4.0	0.45	1		06/14/14 07:18	107-05-1	
Benzene	ND ug/L		1.0	0.15	1		06/14/14 07:18	71-43-2	
Bromobenzene	ND ug/L		1.0	0.13	1		06/14/14 07:18	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.12	1		06/14/14 07:18	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.20	1		06/14/14 07:18	75-27-4	
Bromoform	ND ug/L		4.0	2.0	1		06/14/14 07:18	75-25-2	
Bromomethane	ND ug/L		4.0	2.0	1		06/14/14 07:18	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	2.5	1		06/14/14 07:18	78-93-3	
n-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 07:18	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 07:18	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 07:18	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	0.16	1		06/14/14 07:18	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.066	1		06/14/14 07:18	108-90-7	
Chloroethane	ND ug/L		1.0	0.24	1		06/14/14 07:18	75-00-3	
Chloroform	ND ug/L		1.0	0.16	1		06/14/14 07:18	67-66-3	
Chloromethane	ND ug/L		4.0	0.34	1		06/14/14 07:18	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.14	1		06/14/14 07:18	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.083	1		06/14/14 07:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	2.0	1		06/14/14 07:18	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.50	1		06/14/14 07:18	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.15	1		06/14/14 07:18	106-93-4	
Dibromomethane	ND ug/L		4.0	0.18	1		06/14/14 07:18	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.16	1		06/14/14 07:18	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 07:18	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 07:18	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.50	1		06/14/14 07:18	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.16	1		06/14/14 07:18	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.13	1		06/14/14 07:18	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.20	1		06/14/14 07:18	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.13	1		06/14/14 07:18	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.23	1		06/14/14 07:18	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.20	1		06/14/14 07:18	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.14	1		06/14/14 07:18	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.50	1		06/14/14 07:18	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.17	1		06/14/14 07:18	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.50	1		06/14/14 07:18	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.13	1		06/14/14 07:18	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	0.18	1		06/14/14 07:18	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	0.14	1		06/14/14 07:18	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.16	1		06/14/14 07:18	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.50	1		06/14/14 07:18	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.50	1		06/14/14 07:18	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.50	1		06/14/14 07:18	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		06/14/14 07:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		06/14/14 07:18	108-10-1	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-16 (10-15) **Lab ID: 10270522008** Collected: 06/11/14 11:35 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC Analytical Method: EPA 8260									
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		06/14/14 07:18	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.0	1		06/14/14 07:18	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.50	1		06/14/14 07:18	103-65-1	
Styrene	ND	ug/L	1.0	0.063	1		06/14/14 07:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/14/14 07:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/14/14 07:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		06/14/14 07:18	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2.0	1		06/14/14 07:18	109-99-9	
Toluene	ND	ug/L	1.0	0.11	1		06/14/14 07:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.50	1		06/14/14 07:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.50	1		06/14/14 07:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.26	1		06/14/14 07:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.13	1		06/14/14 07:18	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.091	1		06/14/14 07:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.22	1		06/14/14 07:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1.2	1		06/14/14 07:18	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.50	1		06/14/14 07:18	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.50	1		06/14/14 07:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.50	1		06/14/14 07:18	108-67-8	
Vinyl chloride	ND	ug/L	0.40	0.20	1		06/14/14 07:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.40	1		06/14/14 07:18	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	105 %		75-125		1		06/14/14 07:18	17060-07-0	
Toluene-d8 (S)	100 %		75-125		1		06/14/14 07:18	2037-26-5	
4-Bromofluorobenzene (S)	112 %		75-125		1		06/14/14 07:18	460-00-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-17 (10-15) Lab ID: 10270522009 Collected: 06/11/14 11:40 Received: 06/12/14 10:42 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	ND	mg/L	0.11	0.023	1	06/13/14 07:06	06/14/14 19:09		
Surrogates									
n-Triacontane (S)	81 %		50-150		1	06/13/14 07:06	06/14/14 19:09	638-68-6	
WIGRO GCV Analytical Method: WI MOD GRO									
Gasoline Range Organics	550	ug/L	100	50.0	1		06/20/14 23:24		
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-125		1		06/20/14 23:24	98-08-8	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	0.046	0.0062	1	06/16/14 07:18	06/17/14 18:33	83-32-9	
Acenaphthylene	ND	ug/L	0.046	0.0063	1	06/16/14 07:18	06/17/14 18:33	208-96-8	
Anthracene	ND	ug/L	0.046	0.0060	1	06/16/14 07:18	06/17/14 18:33	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.046	0.0079	1	06/16/14 07:18	06/17/14 18:33	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.046	0.0076	1	06/16/14 07:18	06/17/14 18:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.046	0.0074	1	06/16/14 07:18	06/17/14 18:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.046	0.0067	1	06/16/14 07:18	06/17/14 18:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.046	0.0079	1	06/16/14 07:18	06/17/14 18:33	207-08-9	
Chrysene	ND	ug/L	0.046	0.0072	1	06/16/14 07:18	06/17/14 18:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.046	0.0064	1	06/16/14 07:18	06/17/14 18:33	53-70-3	
Fluoranthene	ND	ug/L	0.046	0.014	1	06/16/14 07:18	06/17/14 18:33	206-44-0	
Fluorene	ND	ug/L	0.046	0.0057	1	06/16/14 07:18	06/17/14 18:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.046	0.0059	1	06/16/14 07:18	06/17/14 18:33	193-39-5	
Naphthalene	ND	ug/L	0.046	0.0097	1	06/16/14 07:18	06/17/14 18:33	91-20-3	
Phenanthrene	ND	ug/L	0.046	0.0095	1	06/16/14 07:18	06/17/14 18:33	85-01-8	
Pyrene	ND	ug/L	0.046	0.015	1	06/16/14 07:18	06/17/14 18:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	88 %		54-125		1	06/16/14 07:18	06/17/14 18:33	321-60-8	
Terphenyl-d14 (S)	88 %		68-125		1	06/16/14 07:18	06/17/14 18:33	1718-51-0	
8260 VOC Analytical Method: EPA 8260									
Acetone	ND	ug/L	20.0	10.0	1		06/16/14 10:08	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.45	1		06/16/14 10:08	107-05-1	
Benzene	ND	ug/L	1.0	0.15	1		06/16/14 10:08	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.13	1		06/16/14 10:08	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.12	1		06/16/14 10:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.20	1		06/16/14 10:08	75-27-4	
Bromoform	ND	ug/L	4.0	2.0	1		06/16/14 10:08	75-25-2	
Bromomethane	ND	ug/L	4.0	2.0	1		06/16/14 10:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	2.5	1		06/16/14 10:08	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.50	1		06/16/14 10:08	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.50	1		06/16/14 10:08	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.50	1		06/16/14 10:08	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.16	1		06/16/14 10:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.066	1		06/16/14 10:08	108-90-7	
Chloroethane	1.4	ug/L	1.0	0.24	1		06/16/14 10:08	75-00-3	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Sample Project No.: 10270522

Sample: **GP-17 (10-15)** Lab ID: **10270522009** Collected: 06/11/14 11:40 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
Chloroform	ND	ug/L	1.0	0.16	1		06/16/14 10:08	67-66-3	
Chloromethane	ND	ug/L	4.0	0.34	1		06/16/14 10:08	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.14	1		06/16/14 10:08	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.083	1		06/16/14 10:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2.0	1		06/16/14 10:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.50	1		06/16/14 10:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.15	1		06/16/14 10:08	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.18	1		06/16/14 10:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.16	1		06/16/14 10:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.50	1		06/16/14 10:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.50	1		06/16/14 10:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.50	1		06/16/14 10:08	75-71-8	
1,1-Dichloroethane	40.6	ug/L	1.0	0.16	1		06/16/14 10:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.13	1		06/16/14 10:08	107-06-2	
1,1-Dichloroethene	2.2	ug/L	1.0	0.20	1		06/16/14 10:08	75-35-4	
cis-1,2-Dichloroethene	1000	ug/L	10.0	1.3	10		06/17/14 22:31	156-59-2	
trans-1,2-Dichloroethene	7.1	ug/L	1.0	0.23	1		06/16/14 10:08	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/16/14 10:08	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.14	1		06/16/14 10:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.50	1		06/16/14 10:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.17	1		06/16/14 10:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.50	1		06/16/14 10:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.13	1		06/16/14 10:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.18	1		06/16/14 10:08	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.14	1		06/16/14 10:08	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.16	1		06/16/14 10:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.50	1		06/16/14 10:08	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.50	1		06/16/14 10:08	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.50	1		06/16/14 10:08	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2.0	1		06/16/14 10:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	2.5	1		06/16/14 10:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		06/16/14 10:08	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.0	1		06/16/14 10:08	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.50	1		06/16/14 10:08	103-65-1	
Styrene	ND	ug/L	1.0	0.063	1		06/16/14 10:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/16/14 10:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/16/14 10:08	79-34-5	
Tetrachloroethene	1.1	ug/L	1.0	0.16	1		06/16/14 10:08	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	2.0	1		06/16/14 10:08	109-99-9	
Toluene	ND	ug/L	1.0	0.11	1		06/16/14 10:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.50	1		06/16/14 10:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.50	1		06/16/14 10:08	120-82-1	
1,1,1-Trichloroethane	240	ug/L	1.0	0.26	1		06/16/14 10:08	71-55-6	
1,1,2-Trichloroethane	1.1	ug/L	1.0	0.13	1		06/16/14 10:08	79-00-5	
Trichloroethene	592	ug/L	4.0	0.91	10		06/17/14 22:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.22	1		06/16/14 10:08	75-69-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-17 (10-15)		Lab ID: 10270522009	Collected: 06/11/14 11:40	Received: 06/12/14 10:42	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
1,2,3-Trichloropropane	ND ug/L		4.0	1.2	1		06/16/14 10:08	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.50	1		06/16/14 10:08	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	0.50	1		06/16/14 10:08	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.50	1		06/16/14 10:08	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.20	1		06/16/14 10:08	75-01-4	
Xylene (Total)	ND ug/L		3.0	0.40	1		06/16/14 10:08	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102 %.		75-125		1		06/16/14 10:08	17060-07-0	
Toluene-d8 (S)	101 %.		75-125		1		06/16/14 10:08	2037-26-5	
4-Bromofluorobenzene (S)	100 %.		75-125		1		06/16/14 10:08	460-00-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Sample Project No.: 10270522

Sample: GP-7 (10-15) Lab ID: 10270522010 Collected: 06/11/14 11:45 Received: 06/12/14 10:42 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	10.2	mg/L	0.53	0.11	5	06/13/14 07:06	06/15/14 12:51		T7
Surrogates									
n-Triacontane (S)	82	%	50-150		5	06/13/14 07:06	06/15/14 12:51	638-68-6	P4
WIGRO GCV Analytical Method: WI MOD GRO									
Gasoline Range Organics	1350	ug/L	100	50.0	1		06/20/14 23:46		
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%	80-125		1		06/20/14 23:46	98-08-8	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	0.25	ug/L	0.043	0.0058	1	06/16/14 07:18	06/17/14 18:52	83-32-9	
Acenaphthylene	ND	ug/L	0.043	0.0059	1	06/16/14 07:18	06/17/14 18:52	208-96-8	
Anthracene	0.051	ug/L	0.043	0.0056	1	06/16/14 07:18	06/17/14 18:52	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.043	0.0074	1	06/16/14 07:18	06/17/14 18:52	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.043	0.0071	1	06/16/14 07:18	06/17/14 18:52	50-32-8	
Benzo(b)fluoranthene	0.045	ug/L	0.043	0.0069	1	06/16/14 07:18	06/17/14 18:52	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.043	0.0062	1	06/16/14 07:18	06/17/14 18:52	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.043	0.0074	1	06/16/14 07:18	06/17/14 18:52	207-08-9	
Chrysene	0.048	ug/L	0.043	0.0068	1	06/16/14 07:18	06/17/14 18:52	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.043	0.0060	1	06/16/14 07:18	06/17/14 18:52	53-70-3	
Fluoranthene	0.11	ug/L	0.043	0.013	1	06/16/14 07:18	06/17/14 18:52	206-44-0	
Fluorene	0.20	ug/L	0.043	0.0054	1	06/16/14 07:18	06/17/14 18:52	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.043	0.0055	1	06/16/14 07:18	06/17/14 18:52	193-39-5	
Naphthalene	136	ug/L	0.86	0.18	20	06/16/14 07:18	06/18/14 16:46	91-20-3	
Phenanthrene	0.26	ug/L	0.043	0.0089	1	06/16/14 07:18	06/17/14 18:52	85-01-8	
Pyrene	0.11	ug/L	0.043	0.014	1	06/16/14 07:18	06/17/14 18:52	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	86	%	54-125		1	06/16/14 07:18	06/17/14 18:52	321-60-8	
Terphenyl-d14 (S)	78	%	68-125		1	06/16/14 07:18	06/17/14 18:52	1718-51-0	
8260 VOC Analytical Method: EPA 8260									
Acetone	56.2	ug/L	40.0	20.0	2		06/16/14 15:55	67-64-1	
Allyl chloride	ND	ug/L	8.0	0.89	2		06/16/14 15:55	107-05-1	
Benzene	23.0	ug/L	2.0	0.30	2		06/16/14 15:55	71-43-2	
Bromobenzene	ND	ug/L	2.0	0.26	2		06/16/14 15:55	108-86-1	
Bromochloromethane	ND	ug/L	2.0	0.23	2		06/16/14 15:55	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	0.40	2		06/16/14 15:55	75-27-4	
Bromoform	ND	ug/L	8.0	4.0	2		06/16/14 15:55	75-25-2	
Bromomethane	ND	ug/L	8.0	4.0	2		06/16/14 15:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	2		06/16/14 15:55	78-93-3	
n-Butylbenzene	23.3	ug/L	2.0	1.0	2		06/16/14 15:55	104-51-8	
sec-Butylbenzene	28.7	ug/L	2.0	1.0	2		06/16/14 15:55	135-98-8	
tert-Butylbenzene	4.1	ug/L	2.0	1.0	2		06/16/14 15:55	98-06-6	
Carbon tetrachloride	ND	ug/L	2.0	0.32	2		06/16/14 15:55	56-23-5	
Chlorobenzene	ND	ug/L	2.0	0.13	2		06/16/14 15:55	108-90-7	
Chloroethane	ND	ug/L	2.0	0.48	2		06/16/14 15:55	75-00-3	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Sample Project No.: 10270522

Sample: GP-7 (10-15) **Lab ID: 10270522010** Collected: 06/11/14 11:45 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
Chloroform	ND ug/L		2.0	0.32	2		06/16/14 15:55	67-66-3	
Chloromethane	ND ug/L		8.0	0.68	2		06/16/14 15:55	74-87-3	
2-Chlorotoluene	ND ug/L		2.0	0.28	2		06/16/14 15:55	95-49-8	
4-Chlorotoluene	ND ug/L		2.0	0.17	2		06/16/14 15:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		8.0	4.0	2		06/16/14 15:55	96-12-8	
Dibromochloromethane	ND ug/L		2.0	1.0	2		06/16/14 15:55	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		2.0	0.30	2		06/16/14 15:55	106-93-4	
Dibromomethane	ND ug/L		8.0	0.37	2		06/16/14 15:55	74-95-3	
1,2-Dichlorobenzene	ND ug/L		2.0	0.32	2		06/16/14 15:55	95-50-1	
1,3-Dichlorobenzene	ND ug/L		2.0	1.0	2		06/16/14 15:55	541-73-1	
1,4-Dichlorobenzene	ND ug/L		2.0	1.0	2		06/16/14 15:55	106-46-7	
Dichlorodifluoromethane	ND ug/L		2.0	1.0	2		06/16/14 15:55	75-71-8	
1,1-Dichloroethane	ND ug/L		2.0	0.32	2		06/16/14 15:55	75-34-3	
1,2-Dichloroethane	ND ug/L		2.0	0.26	2		06/16/14 15:55	107-06-2	
1,1-Dichloroethene	ND ug/L		2.0	0.40	2		06/16/14 15:55	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		2.0	0.27	2		06/16/14 15:55	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		2.0	0.46	2		06/16/14 15:55	156-60-5	
Dichlorofluoromethane	ND ug/L		2.0	0.40	2		06/16/14 15:55	75-43-4	
1,2-Dichloropropane	ND ug/L		8.0	0.28	2		06/16/14 15:55	78-87-5	
1,3-Dichloropropane	ND ug/L		2.0	1.0	2		06/16/14 15:55	142-28-9	
2,2-Dichloropropane	ND ug/L		8.0	0.35	2		06/16/14 15:55	594-20-7	
1,1-Dichloropropene	ND ug/L		2.0	1.0	2		06/16/14 15:55	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		8.0	0.25	2		06/16/14 15:55	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		8.0	0.37	2		06/16/14 15:55	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		8.0	0.28	2		06/16/14 15:55	60-29-7	
Ethylbenzene	ND ug/L		2.0	0.33	2		06/16/14 15:55	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		2.0	1.0	2		06/16/14 15:55	87-68-3	
Isopropylbenzene (Cumene)	66.2 ug/L		2.0	1.0	2		06/16/14 15:55	98-82-8	
p-Isopropyltoluene	ND ug/L		2.0	1.0	2		06/16/14 15:55	99-87-6	
Methylene Chloride	ND ug/L		8.0	4.0	2		06/16/14 15:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	5.0	2		06/16/14 15:55	108-10-1	
Methyl-tert-butyl ether	ND ug/L		2.0	0.34	2		06/16/14 15:55	1634-04-4	
Naphthalene	249 ug/L		8.0	4.0	2		06/16/14 15:55	91-20-3	
n-Propylbenzene	87.3 ug/L		2.0	1.0	2		06/16/14 15:55	103-65-1	
Styrene	ND ug/L		2.0	0.13	2		06/16/14 15:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		2.0	1.0	2		06/16/14 15:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		2.0	1.0	2		06/16/14 15:55	79-34-5	
Tetrachloroethene	ND ug/L		2.0	0.31	2		06/16/14 15:55	127-18-4	
Tetrahydrofuran	ND ug/L		20.0	4.0	2		06/16/14 15:55	109-99-9	
Toluene	2.2 ug/L		2.0	0.22	2		06/16/14 15:55	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		2.0	1.0	2		06/16/14 15:55	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		2.0	1.0	2		06/16/14 15:55	120-82-1	
1,1,1-Trichloroethane	ND ug/L		2.0	0.53	2		06/16/14 15:55	71-55-6	
1,1,2-Trichloroethane	ND ug/L		2.0	0.25	2		06/16/14 15:55	79-00-5	
Trichloroethene	ND ug/L		0.80	0.18	2		06/16/14 15:55	79-01-6	
Trichlorofluoromethane	ND ug/L		2.0	0.43	2		06/16/14 15:55	75-69-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Sample: GP-7 (10-15)		Lab ID: 10270522010		Collected: 06/11/14 11:45		Received: 06/12/14 10:42		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC		Analytical Method: EPA 8260							
1,2,3-Trichloropropane	ND ug/L		8.0	2.4	2		06/16/14 15:55	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		2.0	1.0	2		06/16/14 15:55	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		2.0	1.0	2		06/16/14 15:55	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		2.0	1.0	2		06/16/14 15:55	108-67-8	
Vinyl chloride	ND ug/L		0.80	0.39	2		06/16/14 15:55	75-01-4	
Xylene (Total)	ND ug/L		6.0	0.81	2		06/16/14 15:55	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	97 %.		75-125		2		06/16/14 15:55	17060-07-0	
Toluene-d8 (S)	96 %.		75-125		2		06/16/14 15:55	2037-26-5	
4-Bromofluorobenzene (S)	107 %.		75-125		2		06/16/14 15:55	460-00-4	

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G

Sample Project No.: 10270522

Sample: Trip Blank									
Lab ID: 10270522011 Collected: 06/11/14 00:00 Received: 06/12/14 10:42 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Gasoline Range Organics	ND ug/L		100	50.0	1		06/23/14 20:42		
Surrogates									
a,a,a-Trifluorotoluene (S)	109 %.		80-125		1		06/23/14 20:42	98-08-8	
8260 VOC Analytical Method: EPA 8260									
Acetone	ND ug/L		20.0	10.0	1		06/14/14 04:11	67-64-1	
Allyl chloride	ND ug/L		4.0	0.45	1		06/14/14 04:11	107-05-1	
Benzene	ND ug/L		1.0	0.15	1		06/14/14 04:11	71-43-2	
Bromobenzene	ND ug/L		1.0	0.13	1		06/14/14 04:11	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.12	1		06/14/14 04:11	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.20	1		06/14/14 04:11	75-27-4	
Bromoform	ND ug/L		4.0	2.0	1		06/14/14 04:11	75-25-2	
Bromomethane	ND ug/L		4.0	2.0	1		06/14/14 04:11	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	2.5	1		06/14/14 04:11	78-93-3	
n-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 04:11	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 04:11	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	0.50	1		06/14/14 04:11	98-06-6	
Carbon tetrachloride	ND ug/L		1.0	0.16	1		06/14/14 04:11	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.066	1		06/14/14 04:11	108-90-7	
Chloroethane	ND ug/L		1.0	0.24	1		06/14/14 04:11	75-00-3	
Chloroform	ND ug/L		1.0	0.16	1		06/14/14 04:11	67-66-3	
Chloromethane	ND ug/L		4.0	0.34	1		06/14/14 04:11	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.14	1		06/14/14 04:11	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.083	1		06/14/14 04:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		4.0	2.0	1		06/14/14 04:11	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.50	1		06/14/14 04:11	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.15	1		06/14/14 04:11	106-93-4	
Dibromomethane	ND ug/L		4.0	0.18	1		06/14/14 04:11	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.16	1		06/14/14 04:11	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 04:11	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 04:11	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.50	1		06/14/14 04:11	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.16	1		06/14/14 04:11	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.13	1		06/14/14 04:11	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.20	1		06/14/14 04:11	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.13	1		06/14/14 04:11	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.23	1		06/14/14 04:11	156-60-5	
Dichlorofluoromethane	ND ug/L		1.0	0.20	1		06/14/14 04:11	75-43-4	
1,2-Dichloropropane	ND ug/L		4.0	0.14	1		06/14/14 04:11	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.50	1		06/14/14 04:11	142-28-9	
2,2-Dichloropropane	ND ug/L		4.0	0.17	1		06/14/14 04:11	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.50	1		06/14/14 04:11	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		4.0	0.13	1		06/14/14 04:11	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		4.0	0.18	1		06/14/14 04:11	10061-02-6	
Diethyl ether (Ethyl ether)	ND ug/L		4.0	0.14	1		06/14/14 04:11	60-29-7	
Ethylbenzene	ND ug/L		1.0	0.16	1		06/14/14 04:11	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2012-P0183-0061 Former Gross G
Pace Project No.: 10270522

Sample: Trip Blank **Lab ID: 10270522011** Collected: 06/11/14 00:00 Received: 06/12/14 10:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 VOC Analytical Method: EPA 8260									
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.50	1		06/14/14 04:11	87-68-3	
Isopropylbenzene (Cumene)	ND ug/L		1.0	0.50	1		06/14/14 04:11	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	0.50	1		06/14/14 04:11	99-87-6	
Methylene Chloride	ND ug/L		4.0	2.0	1		06/14/14 04:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	2.5	1		06/14/14 04:11	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.17	1		06/14/14 04:11	1634-04-4	
Naphthalene	ND ug/L		4.0	2.0	1		06/14/14 04:11	91-20-3	
n-Propylbenzene	ND ug/L		1.0	0.50	1		06/14/14 04:11	103-65-1	
Styrene	ND ug/L		1.0	0.063	1		06/14/14 04:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		06/14/14 04:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		06/14/14 04:11	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.16	1		06/14/14 04:11	127-18-4	
Tetrahydrofuran	ND ug/L		10.0	2.0	1		06/14/14 04:11	109-99-9	
Toluene	ND ug/L		1.0	0.11	1		06/14/14 04:11	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 04:11	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.50	1		06/14/14 04:11	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.26	1		06/14/14 04:11	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.13	1		06/14/14 04:11	79-00-5	
Trichloroethene	ND ug/L		0.40	0.091	1		06/14/14 04:11	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.22	1		06/14/14 04:11	75-69-4	
1,2,3-Trichloropropane	ND ug/L		4.0	1.2	1		06/14/14 04:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		1.0	0.50	1		06/14/14 04:11	76-13-1	
1,2,4-Trimethylbenzene	ND ug/L		1.0	0.50	1		06/14/14 04:11	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	0.50	1		06/14/14 04:11	108-67-8	
Vinyl chloride	ND ug/L		0.40	0.20	1		06/14/14 04:11	75-01-4	
Xylene (Total)	ND ug/L		3.0	0.40	1		06/14/14 04:11	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	108 %.		75-125		1		06/14/14 04:11	17060-07-0	
Toluene-d8 (S)	100 %.		75-125		1		06/14/14 04:11	2037-26-5	
4-Bromofluorobenzene (S)	103 %.		75-125		1		06/14/14 04:11	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

QC Batch: GCV/12207

Analysis Method: WI MOD GRO

QC Batch Method: WI MOD GRO

Analysis Description: WIGRO GCV Water

Associated Lab Samples: 10270522001, 10270522005, 10270522006, 10270522007, 10270522009, 10270522010

METHOD BLANK: 1711572

Matrix: Water

Associated Lab Samples: 10270522001, 10270522005, 10270522006, 10270522007, 10270522009, 10270522010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	100	06/20/14 20:24	
a,a,a-Trifluorotoluene (S)	%.	100	80-125	06/20/14 20:24	

LABORATORY CONTROL SAMPLE & LCSD: 1711573

1711574

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	1000	1020	992	102	99	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%.				100	100	80-125			

SAMPLE DUPLICATE: 1711586

Parameter	Units	10270382002 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		20	
a,a,a-Trifluorotoluene (S)	%.	112	115	3		

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

QC Batch:	GCV/12222	Analysis Method:	WI MOD GRO
QC Batch Method:	WI MOD GRO	Analysis Description:	WIGRO GCV Water
Associated Lab Samples:	10270522011		

METHOD BLANK: 1714604 Matrix: Water
Associated Lab Samples: 10270522011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	100	06/23/14 20:02	
a,a,a-Trifluorotoluene (S)	%.	108	80-125	06/23/14 20:02	

LABORATORY CONTROL SAMPLE & LCSD: 1714605

Parameter	Units	1714605		1714606		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Gasoline Range Organics	ug/L	1000	1030	918	103	92	80-120	11	20
a,a,a-Trifluorotoluene (S)	%.				104	104	80-125		

MATRIX SPIKE SAMPLE: 1715173

Parameter	Units	10270592001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	ND	1000	1070	107	80-120	
a,a,a-Trifluorotoluene (S)	%.				102	80-125	

SAMPLE DUPLICATE: 1715174

Parameter	Units	10270592002 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		20	
a,a,a-Trifluorotoluene (S)	%.	106	106	.2		

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

QC Batch: MSV/27422 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
 Associated Lab Samples: 10270522001, 10270522002, 10270522003, 10270522004, 10270522007, 10270522008, 10270522011

METHOD BLANK: 1707038 Matrix: Water
 Associated Lab Samples: 10270522001, 10270522002, 10270522003, 10270522004, 10270522007, 10270522008, 10270522011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/14/14 03:57	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/14/14 03:57	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/14/14 03:57	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/14/14 03:57	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	06/14/14 03:57	
1,1-Dichloroethane	ug/L	ND	1.0	06/14/14 03:57	
1,1-Dichloroethene	ug/L	ND	1.0	06/14/14 03:57	
1,1-Dichloropropene	ug/L	ND	1.0	06/14/14 03:57	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/14/14 03:57	
1,2,3-Trichloropropane	ug/L	ND	4.0	06/14/14 03:57	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/14/14 03:57	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/14/14 03:57	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	06/14/14 03:57	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/14/14 03:57	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/14/14 03:57	
1,2-Dichloroethane	ug/L	ND	1.0	06/14/14 03:57	
1,2-Dichloropropane	ug/L	ND	4.0	06/14/14 03:57	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/14/14 03:57	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/14/14 03:57	
1,3-Dichloropropane	ug/L	ND	1.0	06/14/14 03:57	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/14/14 03:57	
2,2-Dichloropropane	ug/L	ND	4.0	06/14/14 03:57	
2-Butanone (MEK)	ug/L	ND	5.0	06/14/14 03:57	
2-Chlorotoluene	ug/L	ND	1.0	06/14/14 03:57	
4-Chlorotoluene	ug/L	ND	1.0	06/14/14 03:57	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/14/14 03:57	
Acetone	ug/L	ND	20.0	06/14/14 03:57	
Allyl chloride	ug/L	ND	4.0	06/14/14 03:57	
Benzene	ug/L	ND	1.0	06/14/14 03:57	
Bromobenzene	ug/L	ND	1.0	06/14/14 03:57	
Bromochloromethane	ug/L	ND	1.0	06/14/14 03:57	
Bromodichloromethane	ug/L	ND	1.0	06/14/14 03:57	
Bromoform	ug/L	ND	4.0	06/14/14 03:57	
Bromomethane	ug/L	ND	4.0	06/14/14 03:57	
Carbon tetrachloride	ug/L	ND	1.0	06/14/14 03:57	
Chlorobenzene	ug/L	ND	1.0	06/14/14 03:57	
Chloroethane	ug/L	ND	1.0	06/14/14 03:57	
Chloroform	ug/L	ND	1.0	06/14/14 03:57	
Chloromethane	ug/L	ND	4.0	06/14/14 03:57	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/14/14 03:57	
cis-1,3-Dichloropropene	ug/L	ND	4.0	06/14/14 03:57	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

METHOD BLANK: 1707038

Matrix: Water

Associated Lab Samples: 10270522001, 10270522002, 10270522003, 10270522004, 10270522007, 10270522008, 10270522011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	06/14/14 03:57	
Dibromomethane	ug/L	ND	4.0	06/14/14 03:57	
Dichlorodifluoromethane	ug/L	ND	1.0	06/14/14 03:57	
Dichlorofluoromethane	ug/L	ND	1.0	06/14/14 03:57	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	06/14/14 03:57	
Ethylbenzene	ug/L	ND	1.0	06/14/14 03:57	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/14/14 03:57	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/14/14 03:57	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/14/14 03:57	
Methylene Chloride	ug/L	ND	4.0	06/14/14 03:57	
n-Butylbenzene	ug/L	ND	1.0	06/14/14 03:57	
n-Propylbenzene	ug/L	ND	1.0	06/14/14 03:57	
Naphthalene	ug/L	ND	4.0	06/14/14 03:57	
p-Isopropyltoluene	ug/L	ND	1.0	06/14/14 03:57	
sec-Butylbenzene	ug/L	ND	1.0	06/14/14 03:57	
Styrene	ug/L	ND	1.0	06/14/14 03:57	
tert-Butylbenzene	ug/L	ND	1.0	06/14/14 03:57	
Tetrachloroethene	ug/L	ND	1.0	06/14/14 03:57	
Tetrahydrofuran	ug/L	ND	10.0	06/14/14 03:57	
Toluene	ug/L	ND	1.0	06/14/14 03:57	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/14/14 03:57	
trans-1,3-Dichloropropene	ug/L	ND	4.0	06/14/14 03:57	
Trichloroethene	ug/L	ND	0.40	06/14/14 03:57	
Trichlorofluoromethane	ug/L	ND	1.0	06/14/14 03:57	
Vinyl chloride	ug/L	ND	0.40	06/14/14 03:57	
Xylene (Total)	ug/L	ND	3.0	06/14/14 03:57	
1,2-Dichloroethane-d4 (S)	%	102	75-125	06/14/14 03:57	
4-Bromofluorobenzene (S)	%	103	75-125	06/14/14 03:57	
Toluene-d8 (S)	%	88	75-125	06/14/14 03:57	

LABORATORY CONTROL SAMPLE: 1707039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.8	109	75-125	
1,1,1-Trichloroethane	ug/L	20	21.9	110	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	21.6	108	74-125	
1,1,2-Trichloroethane	ug/L	20	20.9	105	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	22.6	113	56-133	
1,1-Dichloroethane	ug/L	20	22.0	110	75-125	
1,1-Dichloroethene	ug/L	20	18.1	91	70-125	
1,1-Dichloropropene	ug/L	20	20.7	104	73-125	
1,2,3-Trichlorobenzene	ug/L	20	21.1	106	75-125	
1,2,3-Trichloropropane	ug/L	20	21.8	109	75-125	
1,2,4-Trichlorobenzene	ug/L	20	16.7	83	75-125	

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

LABORATORY CONTROL SAMPLE: 1707039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.8	104	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	51.7	103	70-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.6	103	75-125	
1,2-Dichlorobenzene	ug/L	20	20.6	103	75-125	
1,2-Dichloroethane	ug/L	20	20.7	103	75-125	
1,2-Dichloropropane	ug/L	20	19.5	97	75-125	
1,3,5-Trimethylbenzene	ug/L	20	20.0	100	75-125	
1,3-Dichlorobenzene	ug/L	20	19.5	98	75-125	
1,3-Dichloropropane	ug/L	20	20.6	103	75-125	
1,4-Dichlorobenzene	ug/L	20	19.5	98	75-125	
2,2-Dichloropropane	ug/L	20	20.8	104	66-130	
2-Butanone (MEK)	ug/L	100	124	124	64-126	
2-Chlorotoluene	ug/L	20	19.5	98	73-125	
4-Chlorotoluene	ug/L	20	20.4	102	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	71-125	
Acetone	ug/L	100	116	116	66-131	
Allyl chloride	ug/L	20	18.1	91	70-129	
Benzene	ug/L	20	20.8	104	75-125	
Bromobenzene	ug/L	20	20.8	104	75-125	
Bromochloromethane	ug/L	20	21.0	105	75-125	
Bromodichloromethane	ug/L	20	20.8	104	75-125	
Bromoform	ug/L	20	20.5	102	70-125	
Bromomethane	ug/L	20	13.7	69	30-150	
Carbon tetrachloride	ug/L	20	19.8	99	68-129	
Chlorobenzene	ug/L	20	20.7	104	75-125	
Chloroethane	ug/L	20	19.9	100	68-133	
Chloroform	ug/L	20	20.5	102	75-125	
Chloromethane	ug/L	20	17.6	88	57-140	
cis-1,2-Dichloroethene	ug/L	20	20.5	103	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	75-125	
Dibromochloromethane	ug/L	20	19.4	97	75-125	
Dibromomethane	ug/L	20	20.5	102	75-125	
Dichlorodifluoromethane	ug/L	20	19.3	96	50-134	
Dichlorofluoromethane	ug/L	20	19.1	96	74-125	
Diethyl ether (Ethyl ether)	ug/L	20	19.6	98	75-125	
Ethylbenzene	ug/L	20	18.5	92	75-125	
Hexachloro-1,3-butadiene	ug/L	20	17.3	86	74-128	
Isopropylbenzene (Cumene)	ug/L	20	20.3	101	73-125	
Methyl-tert-butyl ether	ug/L	20	21.5	107	75-125	
Methylene Chloride	ug/L	20	20.1	101	75-125	
n-Butylbenzene	ug/L	20	20.5	103	73-125	
n-Propylbenzene	ug/L	20	20.3	102	72-125	
Naphthalene	ug/L	20	21.2	106	74-125	
p-Isopropyltoluene	ug/L	20	21.5	107	74-125	
sec-Butylbenzene	ug/L	20	21.1	105	74-125	
Styrene	ug/L	20	20.2	101	75-125	
tert-Butylbenzene	ug/L	20	20.8	104	74-125	

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

LABORATORY CONTROL SAMPLE: 1707039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	17.6	88	71-125	
Tetrahydrofuran	ug/L	200	205	102	70-125	
Toluene	ug/L	20	18.5	93	75-125	
trans-1,2-Dichloroethene	ug/L	20	18.3	92	73-125	
trans-1,3-Dichloropropene	ug/L	20	21.1	105	75-125	
Trichloroethene	ug/L	20	20.4	102	75-125	
Trichlorofluoromethane	ug/L	20	20.0	100	70-128	
Vinyl chloride	ug/L	20	18.0	90	70-130	
Xylene (Total)	ug/L	60	59.7	100	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE SAMPLE: 1708643

Parameter	Units	10270160009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.2	106	74-131	
1,1,1-Trichloroethane	ug/L	ND	20	23.5	117	73-139	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.2	106	72-125	
1,1,2-Trichloroethane	ug/L	ND	20	19.5	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	23.0	115	68-150	
1,1-Dichloroethane	ug/L	ND	20	21.5	107	73-132	
1,1-Dichloroethene	ug/L	ND	20	23.6	118	71-142	
1,1-Dichloropropene	ug/L	ND	20	23.8	119	73-139	
1,2,3-Trichlorobenzene	ug/L	ND	20	20.3	101	70-129	
1,2,3-Trichloropropane	ug/L	ND	20	21.9	109	74-125	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.9	95	70-129	
1,2,4-Trimethylbenzene	ug/L	ND	20	21.6	108	72-136	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	51.6	103	66-127	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.6	103	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	20.2	101	75-125	
1,2-Dichloroethane	ug/L	ND	20	20.5	102	68-128	
1,2-Dichloropropane	ug/L	ND	20	19.7	99	74-131	
1,3,5-Trimethylbenzene	ug/L	ND	20	21.6	108	75-131	
1,3-Dichlorobenzene	ug/L	ND	20	20.3	101	73-125	
1,3-Dichloropropane	ug/L	ND	20	20.2	101	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	19.4	97	73-125	
2,2-Dichloropropane	ug/L	ND	20	21.0	105	58-150	
2-Butanone (MEK)	ug/L	ND	100	115	115	56-140	
2-Chlorotoluene	ug/L	ND	20	20.2	101	70-130	
4-Chlorotoluene	ug/L	ND	20	21.2	106	73-126	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	98.3	98	69-128	
Acetone	ug/L	ND	100	124	124	57-143	
Allyl chloride	ug/L	ND	20	23.1	116	65-146	
Benzene	ug/L	ND	20	20.7	103	75-129	

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

MATRIX SPIKE SAMPLE:	1708643	10270160009	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/L	ND	20	21.4	107	74-125	
Bromochloromethane	ug/L	ND	20	22.0	110	75-126	
Bromodichloromethane	ug/L	ND	20	20.7	104	75-128	
Bromoform	ug/L	ND	20	21.0	105	66-130	
Bromomethane	ug/L	ND	20	17.4	87	30-150	
Carbon tetrachloride	ug/L	ND	20	23.2	116	69-148	
Chlorobenzene	ug/L	ND	20	20.3	102	75-125	
Chloroethane	ug/L	ND	20	23.2	116	71-143	
Chloroform	ug/L	ND	20	20.6	103	75-126	
Chloromethane	ug/L	ND	20	21.7	109	55-150	
cis-1,2-Dichloroethene	ug/L	ND	20	21.7	109	75-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.1	96	72-129	
Dibromochloromethane	ug/L	ND	20	19.7	98	73-129	
Dibromomethane	ug/L	ND	20	17.4	87	75-125	
Dichlorodifluoromethane	ug/L	ND	20	26.1	131	70-150	
Dichlorofluoromethane	ug/L	ND	20	20.7	103	75-135	
Diethyl ether (Ethyl ether)	ug/L	ND	20	19.7	98	72-126	
Ethylbenzene	ug/L	ND	20	20.1	101	75-128	
Hexachloro-1,3-butadiene	ug/L	ND	20	19.7	99	65-144	
Isopropylbenzene (Cumene)	ug/L	ND	20	21.8	109	75-131	
Methyl-tert-butyl ether	ug/L	ND	20	21.7	108	74-128	
Methylene Chloride	ug/L	ND	20	23.0	115	69-125	
n-Butylbenzene	ug/L	ND	20	22.2	111	70-137	
n-Propylbenzene	ug/L	ND	20	21.6	108	72-131	
Naphthalene	ug/L	ND	20	20.7	103	70-132	
p-Isopropyltoluene	ug/L	ND	20	21.6	108	73-133	
sec-Butylbenzene	ug/L	ND	20	22.3	111	74-133	
Styrene	ug/L	ND	20	21.1	106	75-128	
tert-Butylbenzene	ug/L	ND	20	22.3	111	74-130	
Tetrachloroethene	ug/L	ND	20	16.5	82	68-140	
Tetrahydrofuran	ug/L	ND	200	199	99	65-131	
Toluene	ug/L	ND	20	20.0	100	75-129	
trans-1,2-Dichloroethene	ug/L	ND	20	22.2	111	70-136	
trans-1,3-Dichloropropene	ug/L	ND	20	19.9	100	71-125	
Trichloroethene	ug/L	ND	20	21.3	106	72-135	
Trichlorofluoromethane	ug/L	ND	20	24.9	125	75-150	
Vinyl chloride	ug/L	ND	20	23.8	119	73-150	
Xylene (Total)	ug/L	ND	60	63.6	106	75-129	
1,2-Dichloroethane-d4 (S)	%				109	75-125	
4-Bromofluorobenzene (S)	%				100	75-125	
Toluene-d8 (S)	%				104	75-125	

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

SAMPLE DUPLICATE: 1708644

Parameter	Units	10270160008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	.75J		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	.3J		30	

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

SAMPLE DUPLICATE: 1708644

Parameter	Units	10270160008 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	.19J		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	104	99	5		
4-Bromofluorobenzene (S)	%.	104	103	2		
Toluene-d8 (S)	%.	85	96	12		

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

QC Batch: MSV/27436 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10270522006, 10270522009, 10270522010

METHOD BLANK: 1708198 Matrix: Water

Associated Lab Samples: 10270522006, 10270522009, 10270522010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/16/14 09:10	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/16/14 09:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/16/14 09:10	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/16/14 09:10	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	06/16/14 09:10	
1,1-Dichloroethane	ug/L	ND	1.0	06/16/14 09:10	
1,1-Dichloroethene	ug/L	ND	1.0	06/16/14 09:10	
1,1-Dichloropropene	ug/L	ND	1.0	06/16/14 09:10	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/16/14 09:10	
1,2,3-Trichloropropane	ug/L	ND	4.0	06/16/14 09:10	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/16/14 09:10	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/16/14 09:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	06/16/14 09:10	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/16/14 09:10	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/16/14 09:10	
1,2-Dichloroethane	ug/L	ND	1.0	06/16/14 09:10	
1,2-Dichloropropane	ug/L	ND	4.0	06/16/14 09:10	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/16/14 09:10	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/16/14 09:10	
1,3-Dichloropropane	ug/L	ND	1.0	06/16/14 09:10	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/16/14 09:10	
2,2-Dichloropropane	ug/L	ND	4.0	06/16/14 09:10	
2-Butanone (MEK)	ug/L	ND	5.0	06/16/14 09:10	
2-Chlorotoluene	ug/L	ND	1.0	06/16/14 09:10	
4-Chlorotoluene	ug/L	ND	1.0	06/16/14 09:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/16/14 09:10	
Acetone	ug/L	ND	20.0	06/16/14 09:10	
Allyl chloride	ug/L	ND	4.0	06/16/14 09:10	
Benzene	ug/L	ND	1.0	06/16/14 09:10	
Bromobenzene	ug/L	ND	1.0	06/16/14 09:10	
Bromochloromethane	ug/L	ND	1.0	06/16/14 09:10	
Bromodichloromethane	ug/L	ND	1.0	06/16/14 09:10	
Bromoform	ug/L	ND	4.0	06/16/14 09:10	
Bromomethane	ug/L	ND	4.0	06/16/14 09:10	
Carbon tetrachloride	ug/L	ND	1.0	06/16/14 09:10	
Chlorobenzene	ug/L	ND	1.0	06/16/14 09:10	
Chloroethane	ug/L	ND	1.0	06/16/14 09:10	
Chloroform	ug/L	ND	1.0	06/16/14 09:10	
Chloromethane	ug/L	ND	4.0	06/16/14 09:10	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/16/14 09:10	
cis-1,3-Dichloropropene	ug/L	ND	4.0	06/16/14 09:10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

METHOD BLANK: 1708198

Matrix: Water

Associated Lab Samples: 10270522006, 10270522009, 10270522010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	06/16/14 09:10	
Dibromomethane	ug/L	ND	4.0	06/16/14 09:10	
Dichlorodifluoromethane	ug/L	ND	1.0	06/16/14 09:10	
Dichlorofluoromethane	ug/L	ND	1.0	06/16/14 09:10	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	06/16/14 09:10	
Ethylbenzene	ug/L	ND	1.0	06/16/14 09:10	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/16/14 09:10	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/16/14 09:10	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/16/14 09:10	
Methylene Chloride	ug/L	ND	4.0	06/16/14 09:10	
n-Butylbenzene	ug/L	ND	1.0	06/16/14 09:10	
n-Propylbenzene	ug/L	ND	1.0	06/16/14 09:10	
Naphthalene	ug/L	ND	4.0	06/16/14 09:10	
p-Isopropyltoluene	ug/L	ND	1.0	06/16/14 09:10	
sec-Butylbenzene	ug/L	ND	1.0	06/16/14 09:10	
Styrene	ug/L	ND	1.0	06/16/14 09:10	
tert-Butylbenzene	ug/L	ND	1.0	06/16/14 09:10	
Tetrachloroethane	ug/L	ND	1.0	06/16/14 09:10	
Tetrahydrofuran	ug/L	ND	10.0	06/16/14 09:10	
Toluene	ug/L	ND	1.0	06/16/14 09:10	
trans-1,2-Dichloroethane	ug/L	ND	1.0	06/16/14 09:10	
trans-1,3-Dichloropropene	ug/L	ND	4.0	06/16/14 09:10	
Trichloroethene	ug/L	ND	0.40	06/16/14 09:10	
Trichlorofluoromethane	ug/L	ND	1.0	06/16/14 09:10	
Vinyl chloride	ug/L	ND	0.40	06/16/14 09:10	
Xylene (Total)	ug/L	ND	3.0	06/16/14 09:10	
1,2-Dichloroethane-d4 (S)	%	96	75-125	06/16/14 09:10	
4-Bromofluorobenzene (S)	%	103	75-125	06/16/14 09:10	
Toluene-d8 (S)	%	101	75-125	06/16/14 09:10	

LABORATORY CONTROL SAMPLE: 1708199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.2	111	75-125	
1,1,1-Trichloroethane	ug/L	20	20.6	103	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	74-125	
1,1,2-Trichloroethane	ug/L	20	21.7	109	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	22.3	111	56-133	
1,1-Dichloroethane	ug/L	20	22.4	112	75-125	
1,1-Dichloroethene	ug/L	20	19.8	99	70-125	
1,1-Dichloropropene	ug/L	20	19.1	96	73-125	
1,2,3-Trichlorobenzene	ug/L	20	20.0	100	75-125	
1,2,3-Trichloropropane	ug/L	20	20.7	103	75-125	
1,2,4-Trichlorobenzene	ug/L	20	18.9	94	75-125	

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

LABORATORY CONTROL SAMPLE: 1708199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.5	103	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	53.0	106	70-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	105	75-125	
1,2-Dichlorobenzene	ug/L	20	20.1	101	75-125	
1,2-Dichloroethane	ug/L	20	20.4	102	75-125	
1,2-Dichloropropane	ug/L	20	20.1	101	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.8	99	75-125	
1,3-Dichlorobenzene	ug/L	20	19.6	98	75-125	
1,3-Dichloropropane	ug/L	20	21.0	105	75-125	
1,4-Dichlorobenzene	ug/L	20	19.0	95	75-125	
2,2-Dichloropropane	ug/L	20	22.9	115	66-130	
2-Butanone (MEK)	ug/L	100	119	119	64-126	
2-Chlorotoluene	ug/L	20	19.2	96	73-125	
4-Chlorotoluene	ug/L	20	20.1	100	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	71-125	
Acetone	ug/L	100	107	107	66-131	
Allyl chloride	ug/L	20	20.2	101	70-129	
Benzene	ug/L	20	20.1	101	75-125	
Bromobenzene	ug/L	20	20.5	102	75-125	
Bromochloromethane	ug/L	20	20.8	104	75-125	
Bromodichloromethane	ug/L	20	21.2	106	75-125	
Bromoform	ug/L	20	22.0	110	70-125	
Bromomethane	ug/L	20	14.3	72	30-150	
Carbon tetrachloride	ug/L	20	18.8	94	68-129	
Chlorobenzene	ug/L	20	20.8	104	75-125	
Chloroethane	ug/L	20	23.9	119	68-133	
Chloroform	ug/L	20	20.6	103	75-125	
Chloromethane	ug/L	20	20.6	103	57-140	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.9	99	75-125	
Dibromochloromethane	ug/L	20	21.2	106	75-125	
Dibromomethane	ug/L	20	20.6	103	75-125	
Dichlorodifluoromethane	ug/L	20	22.2	111	50-134	
Dichlorofluoromethane	ug/L	20	22.6	113	74-125	
Diethyl ether (Ethyl ether)	ug/L	20	24.4	122	75-125	
Ethylbenzene	ug/L	20	19.0	95	75-125	
Hexachloro-1,3-butadiene	ug/L	20	18.0	90	74-128	
Isopropylbenzene (Cumene)	ug/L	20	20.5	102	73-125	
Methyl-tert-butyl ether	ug/L	20	21.7	109	75-125	
Methylene Chloride	ug/L	20	20.6	103	75-125	
n-Butylbenzene	ug/L	20	21.0	105	73-125	
n-Propylbenzene	ug/L	20	19.7	98	72-125	
Naphthalene	ug/L	20	19.6	98	74-125	
p-Isopropyltoluene	ug/L	20	21.2	106	74-125	
sec-Butylbenzene	ug/L	20	20.6	103	74-125	
Styrene	ug/L	20	21.1	106	75-125	
tert-Butylbenzene	ug/L	20	19.9	99	74-125	

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

LABORATORY CONTROL SAMPLE: 1708199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	19.1	96	71-125	
Tetrahydrofuran	ug/L	200	176	88	70-125	
Toluene	ug/L	20	19.0	95	75-125	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	73-125	
trans-1,3-Dichloropropene	ug/L	20	22.5	112	75-125	
Trichloroethene	ug/L	20	19.9	100	75-125	
Trichlorofluoromethane	ug/L	20	23.2	116	70-128	
Vinyl chloride	ug/L	20	22.8	114	70-130	
Xylene (Total)	ug/L	60	61.1	102	75-125	
1,2-Dichloroethane-d4 (S)	%			104	75-125	
4-Bromofluorobenzene (S)	%			96	75-125	
Toluene-d8 (S)	%			103	75-125	

MATRIX SPIKE SAMPLE: 1709583

Parameter	Units	10270522006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.0	105	74-131	
1,1,1-Trichloroethane	ug/L	ND	20	22.0	106	73-139	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.0	100	72-125	
1,1,2-Trichloroethane	ug/L	ND	20	20.0	100	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	24.0	120	68-150	
1,1-Dichloroethane	ug/L	ND	20	21.0	102	73-132	
1,1-Dichloroethene	ug/L	ND	20	19.3	96	71-142	
1,1-Dichloropropene	ug/L	ND	20	19.6	98	73-139	
1,2,3-Trichlorobenzene	ug/L	ND	20	18.3	91	70-129	
1,2,3-Trichloropropane	ug/L	ND	20	19.3	96	74-125	
1,2,4-Trichlorobenzene	ug/L	ND	20	15.8	79	70-129	
1,2,4-Trimethylbenzene	ug/L	ND	20	19.8	99	72-136	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	42.9	86	66-127	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.5	97	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	19.8	99	75-125	
1,2-Dichloroethane	ug/L	ND	20	18.7	94	68-128	
1,2-Dichloropropane	ug/L	ND	20	19.0	95	74-131	
1,3,5-Trimethylbenzene	ug/L	ND	20	19.8	99	75-131	
1,3-Dichlorobenzene	ug/L	ND	20	19.1	96	73-125	
1,3-Dichloropropane	ug/L	ND	20	19.4	97	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	18.6	93	73-125	
2,2-Dichloropropane	ug/L	ND	20	22.6	113	58-150	
2-Butanone (MEK)	ug/L	ND	100	98.9	99	56-140	
2-Chlorotoluene	ug/L	ND	20	19.1	95	70-130	
4-Chlorotoluene	ug/L	ND	20	20.1	100	73-126	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	96.7	97	69-128	
Acetone	ug/L	ND	100	108	102	57-143	
Allyl chloride	ug/L	ND	20	18.3	91	65-146	
Benzene	ug/L	ND	20	18.7	93	75-129	

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

MATRIX SPIKE SAMPLE:	1709583	10270522006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/L	ND	20	19.8	99	74-125	
Bromochloromethane	ug/L	ND	20	19.6	98	75-126	
Bromodichloromethane	ug/L	ND	20	20.5	102	75-128	
Bromoform	ug/L	ND	20	19.6	98	66-130	
Bromomethane	ug/L	ND	20	14.3	72	30-150	
Carbon tetrachloride	ug/L	ND	20	19.8	99	69-148	
Chlorobenzene	ug/L	ND	20	20.3	101	75-125	
Chloroethane	ug/L	ND	20	22.9	115	71-143	
Chloroform	ug/L	ND	20	19.6	98	75-126	
Chloromethane	ug/L	ND	20	20.9	105	55-150	
cis-1,2-Dichloroethene	ug/L	2.7	20	22.6	100	75-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.0	95	72-129	
Dibromochloromethane	ug/L	ND	20	19.8	99	73-129	
Dibromomethane	ug/L	ND	20	19.0	95	75-125	
Dichlorodifluoromethane	ug/L	ND	20	24.2	121	70-150	
Dichlorofluoromethane	ug/L	ND	20	22.1	111	75-135	
Diethyl ether (Ethyl ether)	ug/L	ND	20	19.4	97	72-126	
Ethylbenzene	ug/L	ND	20	18.2	91	75-128	
Hexachloro-1,3-butadiene	ug/L	ND	20	14.0	70	65-144	
Isopropylbenzene (Cumene)	ug/L	ND	20	20.1	100	75-131	
Methyl-tert-butyl ether	ug/L	ND	20	20.5	102	74-128	
Methylene Chloride	ug/L	ND	20	18.2	91	69-125	
n-Butylbenzene	ug/L	ND	20	20.8	104	70-137	
n-Propylbenzene	ug/L	ND	20	20.1	101	72-131	
Naphthalene	ug/L	ND	20	18.2	91	70-132	
p-Isopropyltoluene	ug/L	ND	20	21.1	105	73-133	
sec-Butylbenzene	ug/L	ND	20	21.1	106	74-133	
Styrene	ug/L	ND	20	19.9	100	75-128	
tert-Butylbenzene	ug/L	ND	20	20.9	105	74-130	
Tetrachloroethene	ug/L	ND	20	18.0	89	68-140	
Tetrahydrofuran	ug/L	ND	200	194	97	65-131	
Toluene	ug/L	ND	20	17.7	88	75-129	
trans-1,2-Dichloroethene	ug/L	ND	20	17.2	86	70-136	
trans-1,3-Dichloropropene	ug/L	ND	20	20.3	101	71-125	
Trichloroethene	ug/L	10.9	20	31.0	101	72-135	
Trichlorofluoromethane	ug/L	ND	20	24.0	120	75-150	
Vinyl chloride	ug/L	ND	20	23.3	116	73-150	
Xylene (Total)	ug/L	ND	60	58.0	97	75-129	
1,2-Dichloroethane-d4 (S)	%				99	75-125	
4-Bromofluorobenzene (S)	%				100	75-125	
Toluene-d8 (S)	%				100	75-125	

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

SAMPLE DUPLICATE: 1709584

Parameter	Units	10270522009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	240	241	.4	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	1.1	1.2	9	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	40.6	41.0	.8	30	
1,1-Dichloroethene	ug/L	2.2	2.2	.4	30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	1.4	.93J		30	
Chloroform	ug/L	ND	.51J		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	1000	799	22	30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

SAMPLE DUPLICATE: 1709584

Parameter	Units	10270522009 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	1.1	.98J		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	7.1	6.6	7	30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	592	614	4	30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	102	98	3		
4-Bromofluorobenzene (S)	%.	100	102	2		
Toluene-d8 (S)	%.	101	104	3		

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

QC Batch: OEXT/25374 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV
 Associated Lab Samples: 10270522001, 10270522002, 10270522003, 10270522004, 10270522005, 10270522006, 10270522007,
 10270522009, 10270522010

METHOD BLANK: 1708252 Matrix: Water
 Associated Lab Samples: 10270522001, 10270522002, 10270522003, 10270522004, 10270522005, 10270522006, 10270522007,
 10270522009, 10270522010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	06/17/14 15:54	
Acenaphthylene	ug/L	ND	0.040	06/17/14 15:54	
Anthracene	ug/L	ND	0.040	06/17/14 15:54	
Benzo(a)anthracene	ug/L	ND	0.040	06/17/14 15:54	
Benzo(a)pyrene	ug/L	ND	0.040	06/17/14 15:54	
Benzo(b)fluoranthene	ug/L	ND	0.040	06/17/14 15:54	
Benzo(g,h,i)perylene	ug/L	ND	0.040	06/17/14 15:54	
Benzo(k)fluoranthene	ug/L	ND	0.040	06/17/14 15:54	
Chrysene	ug/L	ND	0.040	06/17/14 15:54	
Dibenz(a,h)anthracene	ug/L	ND	0.040	06/17/14 15:54	
Fluoranthene	ug/L	ND	0.040	06/17/14 15:54	
Fluorene	ug/L	ND	0.040	06/17/14 15:54	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	06/17/14 15:54	
Naphthalene	ug/L	ND	0.040	06/17/14 15:54	
Phenanthrene	ug/L	ND	0.040	06/17/14 15:54	
Pyrene	ug/L	ND	0.040	06/17/14 15:54	
2-Fluorobiphenyl (S)	%	81	54-125	06/17/14 15:54	
Terphenyl-d14 (S)	%	94	68-125	06/17/14 15:54	

LABORATORY CONTROL SAMPLE: 1708253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	1	0.81	81	46-125	
Acenaphthylene	ug/L	1	0.81	81	45-125	
Anthracene	ug/L	1	0.87	87	54-125	
Benzo(a)anthracene	ug/L	1	0.84	84	59-125	
Benzo(a)pyrene	ug/L	1	0.87	87	58-125	
Benzo(b)fluoranthene	ug/L	1	0.89	89	61-125	
Benzo(g,h,i)perylene	ug/L	1	0.72	72	55-125	
Benzo(k)fluoranthene	ug/L	1	0.84	84	63-125	
Chrysene	ug/L	1	0.92	92	59-125	
Dibenz(a,h)anthracene	ug/L	1	0.59	59	59-125	
Fluoranthene	ug/L	1	0.87	87	63-125	
Fluorene	ug/L	1	0.84	84	52-125	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.65	65	59-125	
Naphthalene	ug/L	1	0.74	74	44-125	
Phenanthrene	ug/L	1	0.92	92	55-125	
Pyrene	ug/L	1	0.96	96	66-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

LABORATORY CONTROL SAMPLE: 1708253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			75	54-125	
Terphenyl-d14 (S)	%.			95	68-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1708254 1708255

Parameter	10270714007		MS	MSD	MS		MSD		% Rec	Max	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Acenaphthene	ug/L	0.043 U	1	1.1	0.85	0.86	83	81	45-125	2	30
Acenaphthylene	ug/L	0.043 U	1	1.1	0.90	0.89	88	84	35-125	.7	30
Anthracene	ug/L	0.043 U	1	1.1	0.92	0.80	90	75	56-125	13	30
Benzo(a)anthracene	ug/L	0.043 U	1	1.1	0.91	0.80	90	75	53-125	14	30
Benzo(a)pyrene	ug/L	0.043 U	1	1.1	1.1	0.96	106	90	39-132	12	30
Benzo(b)fluoranthene	ug/L	0.043 U	1	1.1	0.77	0.80	76	75	39-131	3	30
Benzo(g,h,i)perylene	ug/L	0.043 U	1	1.1	1.2	0.51	117	48	30-137	80	30 R1
Benzo(k)fluoranthene	ug/L	0.043 U	1	1.1	0.72	0.77	71	72	38-126	6	30
Chrysene	ug/L	0.043 U	1	1.1	0.97	0.86	96	81	42-125	12	30
Dibenz(a,h)anthracene	ug/L	0.043 U	1	1.1	0.94	0.51	92	48	30-141	60	30 R1
Fluoranthene	ug/L	0.043 U	1	1.1	1.3	0.84	123	79	61-125	40	30 R1
Fluorene	ug/L	0.043 U	1	1.1	0.91	0.81	90	76	51-125	11	30
Indeno(1,2,3-cd)pyrene	ug/L	0.043 U	1	1.1	0.96	0.54	95	50	30-137	57	30 R1
Naphthalene	ug/L	0.043 U	1	1.1	0.82	0.82	81	77	30-125	.02	30
Phenanthrene	ug/L	0.043 U	1	1.1	0.94	0.86	93	81	54-125	9	30
Pyrene	ug/L	0.043 U	1	1.1	1.0	0.78	99	74	43-130	25	30
2-Fluorobiphenyl (S)	%.						87	108	54-125		
Terphenyl-d14 (S)	%.						96	72	68-125		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

QC Batch:	OEXT/25359	Analysis Method:	WI MOD DRO
QC Batch Method:	WI MOD DRO	Analysis Description:	WIDRO GCS
Associated Lab Samples:	10270522001, 10270522003, 10270522004, 10270522005, 10270522006, 10270522007, 10270522009, 10270522010		

METHOD BLANK:	1706922	Matrix:	Water
Associated Lab Samples:	10270522001, 10270522003, 10270522004, 10270522005, 10270522006, 10270522007, 10270522009, 10270522010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/L	ND	0.10	06/14/14 18:11	
n-Triacontane (S)	%.	83	50-150	06/14/14 18:11	

LABORATORY CONTROL SAMPLE & LCSD: 1706923

1706924

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/L	2	1.7	1.8	85	88	75-115	3	20	
n-Triacontane (S)	%.				91	94	50-150			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1M Low surrogate recovery due to emulsion being present during extraction.

P4 Sample field preservation does not meet EPA or method recommendations for this analysis.

R1 RPD value was outside control limits.

S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

T7 Low boiling point hydrocarbons are present in the sample.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2012-P0183-0061 Former Gross G

Pace Project No.: 10270522

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10270522001	GP-1 (10-15)	WI MOD DRO	OEXT/25359	WI MOD DRO	GCSV/13409
10270522003	GP-11 (10-15)	WI MOD DRO	OEXT/25359	WI MOD DRO	GCSV/13409
10270522004	GP-12 (5-10)	WI MOD DRO	OEXT/25359	WI MOD DRO	GCSV/13409
10270522005	GP-13 (10-15)	WI MOD DRO	OEXT/25359	WI MOD DRO	GCSV/13409
10270522006	GP-14 (10-15)	WI MOD DRO	OEXT/25359	WI MOD DRO	GCSV/13409
10270522007	GP-15 (10-15)	WI MOD DRO	OEXT/25359	WI MOD DRO	GCSV/13409
10270522009	GP-17 (10-15)	WI MOD DRO	OEXT/25359	WI MOD DRO	GCSV/13409
10270522010	GP-7 (10-15)	WI MOD DRO	OEXT/25359	WI MOD DRO	GCSV/13409
10270522001	GP-1 (10-15)	WI MOD GRO	GCV/12207		
10270522005	GP-13 (10-15)	WI MOD GRO	GCV/12207		
10270522006	GP-14 (10-15)	WI MOD GRO	GCV/12207		
10270522007	GP-15 (10-15)	WI MOD GRO	GCV/12207		
10270522009	GP-17 (10-15)	WI MOD GRO	GCV/12207		
10270522010	GP-7 (10-15)	WI MOD GRO	GCV/12207		
10270522011	Trip Blank	WI MOD GRO	GCV/12222		
10270522001	GP-1 (10-15)	EPA 3510	OEXT/25374	EPA 8270 by SIM	MSSV/10699
10270522002	GP-3 (10-15)	EPA 3510	OEXT/25374	EPA 8270 by SIM	MSSV/10699
10270522003	GP-11 (10-15)	EPA 3510	OEXT/25374	EPA 8270 by SIM	MSSV/10699
10270522004	GP-12 (5-10)	EPA 3510	OEXT/25374	EPA 8270 by SIM	MSSV/10699
10270522005	GP-13 (10-15)	EPA 3510	OEXT/25374	EPA 8270 by SIM	MSSV/10699
10270522006	GP-14 (10-15)	EPA 3510	OEXT/25374	EPA 8270 by SIM	MSSV/10699
10270522007	GP-15 (10-15)	EPA 3510	OEXT/25374	EPA 8270 by SIM	MSSV/10699
10270522009	GP-17 (10-15)	EPA 3510	OEXT/25374	EPA 8270 by SIM	MSSV/10699
10270522010	GP-7 (10-15)	EPA 3510	OEXT/25374	EPA 8270 by SIM	MSSV/10699
10270522001	GP-1 (10-15)	EPA 8260	MSV/27422		
10270522002	GP-3 (10-15)	EPA 8260	MSV/27422		
10270522003	GP-11 (10-15)	EPA 8260	MSV/27422		
10270522004	GP-12 (5-10)	EPA 8260	MSV/27422		
10270522006	GP-14 (10-15)	EPA 8260	MSV/27436		
10270522007	GP-15 (10-15)	EPA 8260	MSV/27422		
10270522008	GP-16 (10-15)	EPA 8260	MSV/27422		
10270522009	GP-17 (10-15)	EPA 8260	MSV/27436		
10270522010	GP-7 (10-15)	EPA 8260	MSV/27436		
10270522011	Trip Blank	EPA 8260	MSV/27422		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 10270522 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: The Jewel in Corp.	Report To: Kevin Pierson	Attention: Same	Company Name: Same	Address: Same	REGULATORY AGENCY: 1822942
Address: 10125 Cranston Circle	Copy To:	Address: Same	Address: Same	Address: Same	REGULATORY AGENCY: NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>
Email To: Eden Prairie, MN 55344	Purchase Order No.:	Face Quote Reference: Same	Face Project Manager: Kaber Xiang	Face Profile #: Same	Site Location STATE: MN
Phone: 952.380.3668	Project Name: Former Grass Coiven	Face Quote Reference: Kaber Xiang	Face Project Manager: Kaber Xiang	Face Profile #: Same	Site Location STATE: MN
Requested Due Date/TAT: Normal	Project Number: 2012-90183-0061	Face Quote Reference: Kaber Xiang	Face Project Manager: Kaber Xiang	Face Profile #: Same	Site Location STATE: MN

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives					Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE	TIME	H ₂ SO ₄			
1	GP-1 (10-15)	DW	6/11/11	1100		1	X							001
2	GP-3 (10-15)	WT		1105		1	X							002
3	GP-11 (10-15)	W		1110		1	X							003
4	GP-12 (5-10)	P		1120		1	X							004
5	GP-13 (10-15)	SL		1125		1	X							005
6	GP-14 (10-15)	OL		1130		1	X							006
7	GP-15 (10-15)	WP		1135		1	X							007
8	GP-16 (10-15)	AR		1140		1	X							008
9	GP-17 (10-15)	TS		1145		1	X							009
10	GP-7 (10-15)	OT				1	X							010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Received on	Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Bruce Mead / Jan 6/12/14	6/11/14	1042	B. Hill / PAC	6/11/14	1042	5.2 Y N Y	Temp In			
							5.5				
							3.5				
							4.0				
							2.0				

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Brad M. Cordate
SIGNATURE of SAMPLER: Brad M. Cordate

DATE SIGNED (MM/DD/YY): 06/11/14

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt **Client Name:** The Jurein Group **Project #:** **WO# : 10270522**

Courier: Fed Ex UPS USPS Client
 Commercial Pace SpeedDee Other: _____

Tracking Number: _____



Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No

Packing Material: Bubble Wrap Bubble Bags None Other: _____ **Temp Blank?** Yes No

Thermom. Used: B88A9130516413 B88A912167504 B88A9132521491 **Type of Ice:** Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): 52, 55, 35, 49, 20 **Cooler Temp Corrected (°C):** 2, 5.5, 3.5, 4.9, 2.0 **Biological Tissue Frozen?** Yes No N/A

Temp should be above freezing to 6°C **Correction Factor:** 00 **Date and Initials of Person Examining Contents:** 6/12/14 RB

Item	Yes	No	N/A	Comments
Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Samples Arrived within Hold Time?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. Spd in vials 02, 04, 08, 10
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. Spd in AGIUS & AGIUS, 01, 02, 03, 04, 05, 07, 10
-Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11.
Sample Labels Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.
-Includes Date/Time/ID/Analysis Matrix:				
All containers needing acid/base preservation have been checked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH >12 Cyanide)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sample #
Exceptions: (VOA) Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14. 03, 04, 07
Trip Blank Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pace Trip Blank Lot # (if purchased):				051019-01

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kelvin Xiong **Date:** June 12, 2014

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

APPENDIX D

SOIL VAPOR

LABORATORY ANALYTICAL REPORT

June 20, 2014

Kevin Pierson
The Javelin Group
10125 Crosstown Circle
Suite 107
Eden Prairie, MN 55344

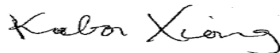
RE: Project: Grass Given Mfg
Pace Project No.: 10270553

Dear Kevin Pierson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong
kabor.xiong@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Grass Given Mfg

Pace Project No.: 10270553

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #40770

Alabama Certification #40770

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #: Pace

Georgia Certification #: 959

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

Wisconsin Certification #: 999407970

West Virginia Certification #: 382

West Virginia TO-15 Approval

West Virginia DHHR #:9952C

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Grass Given Mfg

Pace Project No.: 10270553

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10270553001	SS-1	Air	06/12/14 14:53	06/12/14 16:09
10270553002	SS-3	Air	06/12/14 14:57	06/12/14 16:09
10270553003	SS-2	Air	06/12/14 15:02	06/12/14 16:09
10270553004	SS-4	Air	06/12/14 15:07	06/12/14 16:09
10270553005	SS-5	Air	06/12/14 15:10	06/12/14 16:09

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SAMPLE ANALYTE COUNT

Project: Grass Given Mfg

Pace Project No.: 10270553

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10270553001	SS-1	TO-15	DR1	61
10270553002	SS-3	TO-15	DR1	61
10270553003	SS-2	TO-15	DR1	61
10270553004	SS-4	TO-15	AH2	61
10270553005	SS-5	TO-15	DR1	61

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Grass Given Mfg

Pace Project No.: 10270553

Method: TO-15

Description: TO15 MSV AIR

Client: The Javelin Group

Date: June 20, 2014

General Information:

5 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

- SS-1 (Lab ID: 10270553001)
- SS-3 (Lab ID: 10270553002)
- SS-2 (Lab ID: 10270553003)

K1: The Total Hydrocarbon (THC) pattern occurred in the first half of the chromatogram (before toluene).

- SS-4 (Lab ID: 10270553004)

K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

- SS-5 (Lab ID: 10270553005)

A3: This result is reported from a serial dilution.

- SS-4 (Lab ID: 10270553004)
- SS-5 (Lab ID: 10270553005)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Grass Given Mfg

Pace Project No.: 10270553

Method: TO-15

Description: TO15 MSV AIR

Client: The Javelin Group

Date: June 20, 2014

Analyte Comments:

QC Batch: AIR/20582

1M: Analyte recovered high in the laboratory control sample (LCS) at 139.01% exceeding QC limits of 68%-127%. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 1711359)
- Bromomethane

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Grass Given Mfg

Pace Project No.: 10270553

Sample: SS-1 **Lab ID: 10270553001** Collected: 06/12/14 14:53 Received: 06/12/14 16:09 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR Analytical Method: TO-15									
Acetone	6.2	ug/m3	4.3	2.2	1.8		06/20/14 09:43	67-64-1	
Benzene	ND	ug/m3	0.58	0.21	1.8		06/20/14 09:43	71-43-2	
Benzyl chloride	ND	ug/m3	1.9	0.95	1.8		06/20/14 09:43	100-44-7	
Bromodichloromethane	ND	ug/m3	2.4	0.33	1.8		06/20/14 09:43	75-27-4	
Bromoform	ND	ug/m3	3.8	0.58	1.8		06/20/14 09:43	75-25-2	
Bromomethane	ND	ug/m3	1.4	0.49	1.8		06/20/14 09:43	74-83-9	
1,3-Butadiene	ND	ug/m3	0.81	0.15	1.8		06/20/14 09:43	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1.1	0.49	1.8		06/20/14 09:43	78-93-3	
Carbon disulfide	ND	ug/m3	1.1	0.13	1.8		06/20/14 09:43	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.2	0.58	1.8		06/20/14 09:43	56-23-5	
Chlorobenzene	ND	ug/m3	1.7	0.19	1.8		06/20/14 09:43	108-90-7	
Chloroethane	ND	ug/m3	0.97	0.29	1.8		06/20/14 09:43	75-00-3	
Chloroform	ND	ug/m3	1.8	0.32	1.8		06/20/14 09:43	67-66-3	
Chloromethane	ND	ug/m3	0.76	0.35	1.8		06/20/14 09:43	74-87-3	
Cyclohexane	ND	ug/m3	1.3	0.23	1.8		06/20/14 09:43	110-82-7	
Dibromochloromethane	ND	ug/m3	3.1	1.6	1.8		06/20/14 09:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.8	0.42	1.8		06/20/14 09:43	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.2	0.25	1.8		06/20/14 09:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.2	0.42	1.8		06/20/14 09:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.2	0.36	1.8		06/20/14 09:43	106-46-7	
Dichlorodifluoromethane	1.9	ug/m3	1.8	0.20	1.8		06/20/14 09:43	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.5	0.25	1.8		06/20/14 09:43	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.74	0.21	1.8		06/20/14 09:43	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.5	0.19	1.8		06/20/14 09:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	0.35	1.8		06/20/14 09:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.5	0.29	1.8		06/20/14 09:43	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.7	0.27	1.8		06/20/14 09:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.7	0.24	1.8		06/20/14 09:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.7	0.27	1.8		06/20/14 09:43	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.6	0.45	1.8		06/20/14 09:43	76-14-2	
Ethanol	5.6	ug/m3	1.7	0.57	1.8		06/20/14 09:43	64-17-5	
Ethyl acetate	ND	ug/m3	1.3	0.23	1.8		06/20/14 09:43	141-78-6	
Ethylbenzene	ND	ug/m3	1.6	0.32	1.8		06/20/14 09:43	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.8	0.31	1.8		06/20/14 09:43	622-96-8	
n-Heptane	ND	ug/m3	1.5	0.29	1.8		06/20/14 09:43	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	4.0	0.74	1.8		06/20/14 09:43	87-68-3	
n-Hexane	ND	ug/m3	1.3	0.18	1.8		06/20/14 09:43	110-54-3	
2-Hexanone	ND	ug/m3	1.5	0.38	1.8		06/20/14 09:43	591-78-6	
Methylene Chloride	ND	ug/m3	6.4	0.42	1.8		06/20/14 09:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.5	0.31	1.8		06/20/14 09:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.3	0.16	1.8		06/20/14 09:43	1634-04-4	
Naphthalene	ND	ug/m3	4.8	0.46	1.8		06/20/14 09:43	91-20-3	
2-Propanol	ND	ug/m3	2.2	0.17	1.8		06/20/14 09:43	67-63-0	
Propylene	0.84	ug/m3	0.63	0.20	1.8		06/20/14 09:43	115-07-1	
Styrene	ND	ug/m3	1.6	0.24	1.8		06/20/14 09:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.3	0.42	1.8		06/20/14 09:43	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Grass Given Mfg

Pace Project No.: 10270553

Sample: SS-1 **Lab ID: 10270553001** Collected: 06/12/14 14:53 Received: 06/12/14 16:09 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	1.2	0.34	1.8		06/20/14 09:43	127-18-4	
Tetrahydrofuran	ND	ug/m3	1.1	0.25	1.8		06/20/14 09:43	109-99-9	
Toluene	ND	ug/m3	1.4	0.24	1.8		06/20/14 09:43	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.7	0.66	1.8		06/20/14 09:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2.0	0.25	1.8		06/20/14 09:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.99	0.44	1.8		06/20/14 09:43	79-00-5	
Trichloroethene	ND	ug/m3	0.99	0.32	1.8		06/20/14 09:43	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.1	0.25	1.8		06/20/14 09:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.9	0.29	1.8		06/20/14 09:43	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.8	0.22	1.8		06/20/14 09:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.8	0.37	1.8		06/20/14 09:43	108-67-8	
Vinyl acetate	ND	ug/m3	1.3	0.63	1.8		06/20/14 09:43	108-05-4	
Vinyl chloride	ND	ug/m3	0.47	0.17	1.8		06/20/14 09:43	75-01-4	
m&p-Xylene	ND	ug/m3	3.2	0.25	1.8		06/20/14 09:43	179601-23-1	
o-Xylene	ND	ug/m3	1.6	0.79	1.8		06/20/14 09:43	95-47-6	

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ANALYTICAL RESULTS

Project: Grass Given Mfg

Pace Project No.: 10270553

Sample: SS-3 **Lab ID: 10270553002** Collected: 06/12/14 14:57 Received: 06/12/14 16:09 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR Analytical Method: TO-15									
Acetone	ND	ug/m3	4.2	2.1	1.74		06/20/14 04:48	67-64-1	
Benzene	ND	ug/m3	0.57	0.21	1.74		06/20/14 04:48	71-43-2	
Benzyl chloride	ND	ug/m3	1.8	0.92	1.74		06/20/14 04:48	100-44-7	
Bromodichloromethane	ND	ug/m3	2.4	0.32	1.74		06/20/14 04:48	75-27-4	
Bromoform	ND	ug/m3	3.7	0.56	1.74		06/20/14 04:48	75-25-2	
Bromomethane	ND	ug/m3	1.4	0.47	1.74		06/20/14 04:48	74-83-9	
1,3-Butadiene	ND	ug/m3	0.78	0.15	1.74		06/20/14 04:48	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1.0	0.48	1.74		06/20/14 04:48	78-93-3	
Carbon disulfide	ND	ug/m3	1.1	0.13	1.74		06/20/14 04:48	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.1	0.56	1.74		06/20/14 04:48	56-23-5	
Chlorobenzene	ND	ug/m3	1.6	0.18	1.74		06/20/14 04:48	108-90-7	
Chloroethane	ND	ug/m3	0.94	0.28	1.74		06/20/14 04:48	75-00-3	
Chloroform	ND	ug/m3	1.7	0.31	1.74		06/20/14 04:48	67-66-3	
Chloromethane	ND	ug/m3	0.73	0.33	1.74		06/20/14 04:48	74-87-3	
Cyclohexane	ND	ug/m3	1.2	0.22	1.74		06/20/14 04:48	110-82-7	
Dibromochloromethane	ND	ug/m3	3.0	1.5	1.74		06/20/14 04:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.7	0.41	1.74		06/20/14 04:48	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.1	0.25	1.74		06/20/14 04:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.1	0.40	1.74		06/20/14 04:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.1	0.34	1.74		06/20/14 04:48	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.8	0.19	1.74		06/20/14 04:48	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.4	0.24	1.74		06/20/14 04:48	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.71	0.21	1.74		06/20/14 04:48	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	0.18	1.74		06/20/14 04:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	0.34	1.74		06/20/14 04:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	0.28	1.74		06/20/14 04:48	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.6	0.26	1.74		06/20/14 04:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.6	0.24	1.74		06/20/14 04:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.6	0.26	1.74		06/20/14 04:48	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.5	0.43	1.74		06/20/14 04:48	76-14-2	
Ethanol	ND	ug/m3	1.7	0.55	1.74		06/20/14 04:48	64-17-5	
Ethyl acetate	ND	ug/m3	1.3	0.22	1.74		06/20/14 04:48	141-78-6	
Ethylbenzene	ND	ug/m3	1.5	0.31	1.74		06/20/14 04:48	100-41-4	
4-Ethyltoluene	5.5	ug/m3	1.7	0.30	1.74		06/20/14 04:48	622-96-8	
n-Heptane	ND	ug/m3	1.4	0.28	1.74		06/20/14 04:48	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.8	0.72	1.74		06/20/14 04:48	87-68-3	
n-Hexane	ND	ug/m3	1.3	0.18	1.74		06/20/14 04:48	110-54-3	
2-Hexanone	ND	ug/m3	1.4	0.37	1.74		06/20/14 04:48	591-78-6	
Methylene Chloride	ND	ug/m3	6.1	0.40	1.74		06/20/14 04:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.4	0.30	1.74		06/20/14 04:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.3	0.15	1.74		06/20/14 04:48	1634-04-4	
Naphthalene	ND	ug/m3	4.6	0.45	1.74		06/20/14 04:48	91-20-3	
2-Propanol	ND	ug/m3	2.2	0.16	1.74		06/20/14 04:48	67-63-0	
Propylene	ND	ug/m3	0.61	0.19	1.74		06/20/14 04:48	115-07-1	
Styrene	ND	ug/m3	1.5	0.23	1.74		06/20/14 04:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.2	0.41	1.74		06/20/14 04:48	79-34-5	

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ANALYTICAL RESULTS

Project: Grass Given Mfg

Pace Project No.: 10270553

Sample: SS-3 **Lab ID: 10270553002** Collected: 06/12/14 14:57 Received: 06/12/14 16:09 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR									
Analytical Method: TO-15									
Tetrachloroethene	2.8	ug/m3	1.2	0.33	1.74		06/20/14 04:48	127-18-4	
Tetrahydrofuran	ND	ug/m3	1.0	0.24	1.74		06/20/14 04:48	109-99-9	
Toluene	ND	ug/m3	1.3	0.23	1.74		06/20/14 04:48	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.6	0.63	1.74		06/20/14 04:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.9	0.24	1.74		06/20/14 04:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	0.42	1.74		06/20/14 04:48	79-00-5	
Trichloroethene	ND	ug/m3	0.96	0.31	1.74		06/20/14 04:48	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.0	0.24	1.74		06/20/14 04:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.8	0.28	1.74		06/20/14 04:48	76-13-1	
1,2,4-Trimethylbenzene	3.6	ug/m3	1.7	0.21	1.74		06/20/14 04:48	95-63-6	
1,3,5-Trimethylbenzene	5.8	ug/m3	1.7	0.36	1.74		06/20/14 04:48	108-67-8	
Vinyl acetate	ND	ug/m3	1.2	0.61	1.74		06/20/14 04:48	108-05-4	
Vinyl chloride	ND	ug/m3	0.45	0.16	1.74		06/20/14 04:48	75-01-4	
m&p-Xylene	3.7	ug/m3	3.1	0.24	1.74		06/20/14 04:48	179601-23-1	
o-Xylene	4.2	ug/m3	1.5	0.77	1.74		06/20/14 04:48	95-47-6	

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ANALYTICAL RESULTS

Project: Grass Given Mfg

Pace Project No.: 10270553

Sample: SS-2 **Lab ID: 10270553003** Collected: 06/12/14 15:02 Received: 06/12/14 16:09 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR Analytical Method: TO-15									
Acetone	5.3	ug/m3	4.2	2.1	1.74		06/20/14 04:16	67-64-1	
Benzene	ND	ug/m3	0.57	0.21	1.74		06/20/14 04:16	71-43-2	
Benzyl chloride	ND	ug/m3	1.8	0.92	1.74		06/20/14 04:16	100-44-7	
Bromodichloromethane	ND	ug/m3	2.4	0.32	1.74		06/20/14 04:16	75-27-4	
Bromoform	ND	ug/m3	3.7	0.56	1.74		06/20/14 04:16	75-25-2	
Bromomethane	ND	ug/m3	1.4	0.47	1.74		06/20/14 04:16	74-83-9	
1,3-Butadiene	ND	ug/m3	0.78	0.15	1.74		06/20/14 04:16	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1.0	0.48	1.74		06/20/14 04:16	78-93-3	
Carbon disulfide	ND	ug/m3	1.1	0.13	1.74		06/20/14 04:16	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.1	0.56	1.74		06/20/14 04:16	56-23-5	
Chlorobenzene	2.5	ug/m3	1.6	0.18	1.74		06/20/14 04:16	108-90-7	
Chloroethane	ND	ug/m3	0.94	0.28	1.74		06/20/14 04:16	75-00-3	
Chloroform	ND	ug/m3	1.7	0.31	1.74		06/20/14 04:16	67-66-3	
Chloromethane	ND	ug/m3	0.73	0.33	1.74		06/20/14 04:16	74-87-3	
Cyclohexane	1.5	ug/m3	1.2	0.22	1.74		06/20/14 04:16	110-82-7	
Dibromochloromethane	ND	ug/m3	3.0	1.5	1.74		06/20/14 04:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.7	0.41	1.74		06/20/14 04:16	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.1	0.25	1.74		06/20/14 04:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.1	0.40	1.74		06/20/14 04:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.1	0.34	1.74		06/20/14 04:16	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.8	0.19	1.74		06/20/14 04:16	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.4	0.24	1.74		06/20/14 04:16	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.71	0.21	1.74		06/20/14 04:16	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	0.18	1.74		06/20/14 04:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	0.34	1.74		06/20/14 04:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	0.28	1.74		06/20/14 04:16	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.6	0.26	1.74		06/20/14 04:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.6	0.24	1.74		06/20/14 04:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.6	0.26	1.74		06/20/14 04:16	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.5	0.43	1.74		06/20/14 04:16	76-14-2	
Ethanol	ND	ug/m3	1.7	0.55	1.74		06/20/14 04:16	64-17-5	
Ethyl acetate	ND	ug/m3	1.3	0.22	1.74		06/20/14 04:16	141-78-6	
Ethylbenzene	ND	ug/m3	1.5	0.31	1.74		06/20/14 04:16	100-41-4	
4-Ethyltoluene	12.6	ug/m3	1.7	0.30	1.74		06/20/14 04:16	622-96-8	
n-Heptane	ND	ug/m3	1.4	0.28	1.74		06/20/14 04:16	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.8	0.72	1.74		06/20/14 04:16	87-68-3	
n-Hexane	ND	ug/m3	1.3	0.18	1.74		06/20/14 04:16	110-54-3	
2-Hexanone	ND	ug/m3	1.4	0.37	1.74		06/20/14 04:16	591-78-6	
Methylene Chloride	ND	ug/m3	6.1	0.40	1.74		06/20/14 04:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1.4	0.30	1.74		06/20/14 04:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.3	0.15	1.74		06/20/14 04:16	1634-04-4	
Naphthalene	ND	ug/m3	4.6	0.45	1.74		06/20/14 04:16	91-20-3	
2-Propanol	ND	ug/m3	2.2	0.16	1.74		06/20/14 04:16	67-63-0	
Propylene	ND	ug/m3	0.61	0.19	1.74		06/20/14 04:16	115-07-1	
Styrene	ND	ug/m3	1.5	0.23	1.74		06/20/14 04:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.2	0.41	1.74		06/20/14 04:16	79-34-5	

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ANALYTICAL RESULTS

Project: Grass Given Mfg

Pace Project No.: 10270553

Sample: SS-2 **Lab ID: 10270553003** Collected: 06/12/14 15:02 Received: 06/12/14 16:09 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR		Analytical Method: TO-15							
Tetrachloroethene	44.3	ug/m3	1.2	0.33	1.74		06/20/14 04:16	127-18-4	
Tetrahydrofuran	ND	ug/m3	1.0	0.24	1.74		06/20/14 04:16	109-99-9	
Toluene	1.4	ug/m3	1.3	0.23	1.74		06/20/14 04:16	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.6	0.63	1.74		06/20/14 04:16	120-82-1	
1,1,1-Trichloroethane	19.2	ug/m3	1.9	0.24	1.74		06/20/14 04:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	0.42	1.74		06/20/14 04:16	79-00-5	
Trichloroethene	20.2	ug/m3	0.96	0.31	1.74		06/20/14 04:16	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.0	0.24	1.74		06/20/14 04:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.8	0.28	1.74		06/20/14 04:16	76-13-1	
1,2,4-Trimethylbenzene	10.0	ug/m3	1.7	0.21	1.74		06/20/14 04:16	95-63-6	
1,3,5-Trimethylbenzene	13.8	ug/m3	1.7	0.36	1.74		06/20/14 04:16	108-67-8	
Vinyl acetate	ND	ug/m3	1.2	0.61	1.74		06/20/14 04:16	108-05-4	
Vinyl chloride	ND	ug/m3	0.45	0.16	1.74		06/20/14 04:16	75-01-4	
m&p-Xylene	7.4	ug/m3	3.1	0.24	1.74		06/20/14 04:16	179601-23-1	
o-Xylene	8.4	ug/m3	1.5	0.77	1.74		06/20/14 04:16	95-47-6	

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ANALYTICAL RESULTS

Project: Grass Given Mfg

Pace Project No.: 10270553

Sample: SS-4 **Lab ID: 10270553004** Collected: 06/12/14 15:07 Received: 06/12/14 16:09 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR Analytical Method: TO-15									
Acetone	ND	ug/m3	5380	2690	2227.2		06/19/14 02:10	67-64-1	
Benzene	ND	ug/m3	1450	263	2227.2		06/19/14 02:10	71-43-2	
Benzyl chloride	ND	ug/m3	2340	1170	2227.2		06/19/14 02:10	100-44-7	
Bromodichloromethane	ND	ug/m3	3030	405	2227.2		06/19/14 02:10	75-27-4	
Bromoform	ND	ug/m3	4680	719	2227.2		06/19/14 02:10	75-25-2	
Bromomethane	ND	ug/m3	1760	601	2227.2		06/19/14 02:10	74-83-9	
1,3-Butadiene	ND	ug/m3	1000	189	2227.2		06/19/14 02:10	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1340	608	2227.2		06/19/14 02:10	78-93-3	
Carbon disulfide	ND	ug/m3	1400	160	2227.2		06/19/14 02:10	75-15-0	
Carbon tetrachloride	ND	ug/m3	1430	713	2227.2		06/19/14 02:10	56-23-5	
Chlorobenzene	ND	ug/m3	2090	236	2227.2		06/19/14 02:10	108-90-7	
Chloroethane	ND	ug/m3	1200	359	2227.2		06/19/14 02:10	75-00-3	
Chloroform	ND	ug/m3	2200	399	2227.2		06/19/14 02:10	67-66-3	
Chloromethane	ND	ug/m3	935	428	2227.2		06/19/14 02:10	74-87-3	
Cyclohexane	ND	ug/m3	1560	281	2227.2		06/19/14 02:10	110-82-7	
Dibromochloromethane	ND	ug/m3	3850	1930	2227.2		06/19/14 02:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	3470	521	2227.2		06/19/14 02:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2720	314	2227.2		06/19/14 02:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2720	517	2227.2		06/19/14 02:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2720	441	2227.2		06/19/14 02:10	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	2250	243	2227.2		06/19/14 02:10	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1830	312	2227.2		06/19/14 02:10	75-34-3	
1,2-Dichloroethane	ND	ug/m3	913	265	2227.2		06/19/14 02:10	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1800	229	2227.2		06/19/14 02:10	75-35-4	
cis-1,2-Dichloroethene	2310	ug/m3	1800	437	2227.2		06/19/14 02:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1800	363	2227.2		06/19/14 02:10	156-60-5	
1,2-Dichloropropane	ND	ug/m3	2090	339	2227.2		06/19/14 02:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2050	303	2227.2		06/19/14 02:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	5140	336	2227.2		06/19/14 02:10	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	3160	555	2227.2		06/19/14 02:10	76-14-2	
Ethanol	ND	ug/m3	2140	702	2227.2		06/19/14 02:10	64-17-5	
Ethyl acetate	ND	ug/m3	1630	281	2227.2		06/19/14 02:10	141-78-6	
Ethylbenzene	ND	ug/m3	1960	399	2227.2		06/19/14 02:10	100-41-4	
4-Ethyltoluene	ND	ug/m3	2230	388	2227.2		06/19/14 02:10	622-96-8	
n-Heptane	ND	ug/m3	1850	361	2227.2		06/19/14 02:10	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	4900	915	2227.2		06/19/14 02:10	87-68-3	
n-Hexane	ND	ug/m3	1600	225	2227.2		06/19/14 02:10	110-54-3	
2-Hexanone	ND	ug/m3	3340	474	2227.2		06/19/14 02:10	591-78-6	
Methylene Chloride	ND	ug/m3	7860	514	2227.2		06/19/14 02:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1850	381	2227.2		06/19/14 02:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1630	198	2227.2		06/19/14 02:10	1634-04-4	
Naphthalene	ND	ug/m3	5920	575	2227.2		06/19/14 02:10	91-20-3	
2-Propanol	ND	ug/m3	2780	207	2227.2		06/19/14 02:10	67-63-0	
Propylene	ND	ug/m3	780	245	2227.2		06/19/14 02:10	115-07-1	
Styrene	ND	ug/m3	1940	301	2227.2		06/19/14 02:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	3110	519	2227.2		06/19/14 02:10	79-34-5	

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ANALYTICAL RESULTS

Project: Grass Given Mfg

Pace Project No.: 10270553

Sample: SS-4 **Lab ID: 10270553004** Collected: 06/12/14 15:07 Received: 06/12/14 16:09 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR									
Analytical Method: TO-15									
Tetrachloroethene	6380	ug/m3	1530	419	2227.2		06/19/14 02:10	127-18-4	
Tetrahydrofuran	ND	ug/m3	1340	310	2227.2		06/19/14 02:10	109-99-9	
Toluene	ND	ug/m3	1710	301	2227.2		06/19/14 02:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3360	811	2227.2		06/19/14 02:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2470	310	2227.2		06/19/14 02:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1220	541	2227.2		06/19/14 02:10	79-00-5	
Trichloroethene	169000	ug/m3	1220	396	2227.2		06/19/14 02:10	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2540	307	2227.2		06/19/14 02:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	3560	356	2227.2		06/19/14 02:10	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	2220	272	2227.2		06/19/14 02:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	2220	461	2227.2		06/19/14 02:10	108-67-8	
Vinyl acetate	ND	ug/m3	1590	775	2227.2		06/19/14 02:10	108-05-4	
Vinyl chloride	ND	ug/m3	579	207	2227.2		06/19/14 02:10	75-01-4	
m&p-Xylene	ND	ug/m3	3920	312	2227.2		06/19/14 02:10	179601-23-1	
o-Xylene	ND	ug/m3	1960	982	2227.2		06/19/14 02:10	95-47-6	

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ANALYTICAL RESULTS

Project: Grass Given Mfg

Pace Project No.: 10270553

Sample: SS-5 **Lab ID: 10270553005** Collected: 06/12/14 15:10 Received: 06/12/14 16:09 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR Analytical Method: TO-15									
Acetone	ND	ug/m3	695	348	288		06/19/14 12:59	67-64-1	
Benzene	ND	ug/m3	93.6	34.0	288		06/19/14 12:59	71-43-2	
Benzyl chloride	ND	ug/m3	302	151	288		06/19/14 12:59	100-44-7	
Bromodichloromethane	ND	ug/m3	392	52.4	288		06/19/14 12:59	75-27-4	
Bromoform	ND	ug/m3	605	93.0	288		06/19/14 12:59	75-25-2	
Bromomethane	ND	ug/m3	228	77.8	288		06/19/14 12:59	74-83-9	
1,3-Butadiene	ND	ug/m3	130	24.5	288		06/19/14 12:59	106-99-0	
2-Butanone (MEK)	ND	ug/m3	173	78.6	288		06/19/14 12:59	78-93-3	
Carbon disulfide	ND	ug/m3	181	20.7	288		06/19/14 12:59	75-15-0	
Carbon tetrachloride	ND	ug/m3	184	92.2	288		06/19/14 12:59	56-23-5	
Chlorobenzene	ND	ug/m3	271	30.5	288		06/19/14 12:59	108-90-7	
Chloroethane	ND	ug/m3	156	46.4	288		06/19/14 12:59	75-00-3	
Chloroform	ND	ug/m3	285	51.6	288		06/19/14 12:59	67-66-3	
Chloromethane	ND	ug/m3	121	55.3	288		06/19/14 12:59	74-87-3	
Cyclohexane	ND	ug/m3	202	36.3	288		06/19/14 12:59	110-82-7	
Dibromochloromethane	ND	ug/m3	498	249	288		06/19/14 12:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	449	67.4	288		06/19/14 12:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	351	40.6	288		06/19/14 12:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	351	66.8	288		06/19/14 12:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	351	57.0	288		06/19/14 12:59	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	291	31.4	288		06/19/14 12:59	75-71-8	
1,1-Dichloroethane	ND	ug/m3	236	40.3	288		06/19/14 12:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	118	34.3	288		06/19/14 12:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	233	29.7	288		06/19/14 12:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	233	56.4	288		06/19/14 12:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	233	46.9	288		06/19/14 12:59	156-60-5	
1,2-Dichloropropane	ND	ug/m3	271	43.8	288		06/19/14 12:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	265	39.2	288		06/19/14 12:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	265	43.5	288		06/19/14 12:59	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	409	71.7	288		06/19/14 12:59	76-14-2	
Ethanol	ND	ug/m3	276	90.7	288		06/19/14 12:59	64-17-5	
Ethyl acetate	ND	ug/m3	210	36.3	288		06/19/14 12:59	141-78-6	
Ethylbenzene	ND	ug/m3	253	51.6	288		06/19/14 12:59	100-41-4	
4-Ethyltoluene	ND	ug/m3	288	50.1	288		06/19/14 12:59	622-96-8	
n-Heptane	ND	ug/m3	239	46.7	288		06/19/14 12:59	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	634	118	288		06/19/14 12:59	87-68-3	
n-Hexane	ND	ug/m3	207	29.1	288		06/19/14 12:59	110-54-3	
2-Hexanone	ND	ug/m3	239	61.3	288		06/19/14 12:59	591-78-6	
Methylene Chloride	ND	ug/m3	1020	66.5	288		06/19/14 12:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	239	49.2	288		06/19/14 12:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	210	25.6	288		06/19/14 12:59	1634-04-4	
Naphthalene	ND	ug/m3	766	74.3	288		06/19/14 12:59	91-20-3	
2-Propanol	ND	ug/m3	360	26.8	288		06/19/14 12:59	67-63-0	
Propylene	ND	ug/m3	101	31.7	288		06/19/14 12:59	115-07-1	
Styrene	ND	ug/m3	251	38.9	288		06/19/14 12:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	201	67.1	288		06/19/14 12:59	79-34-5	

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ANALYTICAL RESULTS

Project: Grass Given Mfg

Pace Project No.: 10270553

Sample: SS-5 **Lab ID: 10270553005** Collected: 06/12/14 15:10 Received: 06/12/14 16:09 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR		Analytical Method: TO-15							
Tetrachloroethene	5230	ug/m3	198	54.1	288		06/19/14 12:59	127-18-4	
Tetrahydrofuran	ND	ug/m3	173	40.0	288		06/19/14 12:59	109-99-9	
Toluene	ND	ug/m3	222	38.9	288		06/19/14 12:59	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	435	105	288		06/19/14 12:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	320	40.0	288		06/19/14 12:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	158	70.0	288		06/19/14 12:59	79-00-5	
Trichloroethene	6330	ug/m3	158	51.3	288		06/19/14 12:59	79-01-6	
Trichlorofluoromethane	ND	ug/m3	328	39.7	288		06/19/14 12:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	461	46.1	288		06/19/14 12:59	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	288	35.1	288		06/19/14 12:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	288	59.6	288		06/19/14 12:59	108-67-8	
Vinyl acetate	ND	ug/m3	206	100	288		06/19/14 12:59	108-05-4	
Vinyl chloride	ND	ug/m3	74.9	26.8	288		06/19/14 12:59	75-01-4	
m&p-Xylene	ND	ug/m3	507	40.3	288		06/19/14 12:59	179601-23-1	
o-Xylene	ND	ug/m3	253	127	288		06/19/14 12:59	95-47-6	

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QUALITY CONTROL DATA

Project: Grass Given Mfg

Pace Project No.: 10270553

QC Batch: AIR/20582

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10270553004

METHOD BLANK: 1711358

Matrix: Air

Associated Lab Samples: 10270553004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/18/14 16:04	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.4	06/18/14 16:04	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/18/14 16:04	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	06/18/14 16:04	
1,1-Dichloroethane	ug/m3	ND	0.82	06/18/14 16:04	
1,1-Dichloroethene	ug/m3	ND	0.81	06/18/14 16:04	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	06/18/14 16:04	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	06/18/14 16:04	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	06/18/14 16:04	
1,2-Dichlorobenzene	ug/m3	ND	1.2	06/18/14 16:04	
1,2-Dichloroethane	ug/m3	ND	0.41	06/18/14 16:04	
1,2-Dichloropropane	ug/m3	ND	0.94	06/18/14 16:04	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	06/18/14 16:04	
1,3-Butadiene	ug/m3	ND	0.45	06/18/14 16:04	
1,3-Dichlorobenzene	ug/m3	ND	1.2	06/18/14 16:04	
1,4-Dichlorobenzene	ug/m3	ND	1.2	06/18/14 16:04	
2-Butanone (MEK)	ug/m3	ND	0.60	06/18/14 16:04	
2-Hexanone	ug/m3	ND	1.5	06/18/14 16:04	
2-Propanol	ug/m3	ND	1.2	06/18/14 16:04	
4-Ethyltoluene	ug/m3	ND	1.0	06/18/14 16:04	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	06/18/14 16:04	
Acetone	ug/m3	ND	2.4	06/18/14 16:04	
Benzene	ug/m3	ND	0.65	06/18/14 16:04	
Benzyl chloride	ug/m3	ND	1.0	06/18/14 16:04	
Bromodichloromethane	ug/m3	ND	1.4	06/18/14 16:04	
Bromoform	ug/m3	ND	2.1	06/18/14 16:04	
Bromomethane	ug/m3	ND	0.79	06/18/14 16:04	
Carbon disulfide	ug/m3	ND	0.63	06/18/14 16:04	
Carbon tetrachloride	ug/m3	ND	0.64	06/18/14 16:04	
Chlorobenzene	ug/m3	ND	0.94	06/18/14 16:04	
Chloroethane	ug/m3	ND	0.54	06/18/14 16:04	
Chloroform	ug/m3	ND	0.99	06/18/14 16:04	
Chloromethane	ug/m3	ND	0.42	06/18/14 16:04	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/18/14 16:04	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	06/18/14 16:04	
Cyclohexane	ug/m3	ND	0.70	06/18/14 16:04	
Dibromochloromethane	ug/m3	ND	1.7	06/18/14 16:04	
Dichlorodifluoromethane	ug/m3	ND	1.0	06/18/14 16:04	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	06/18/14 16:04	
Ethanol	ug/m3	ND	0.96	06/18/14 16:04	
Ethyl acetate	ug/m3	ND	0.73	06/18/14 16:04	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Grass Given Mfg

Pace Project No.: 10270553

METHOD BLANK: 1711358

Matrix: Air

Associated Lab Samples: 10270553004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	06/18/14 16:04	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	06/18/14 16:04	
m&p-Xylene	ug/m3	ND	1.8	06/18/14 16:04	
Methyl-tert-butyl ether	ug/m3	ND	0.73	06/18/14 16:04	
Methylene Chloride	ug/m3	ND	3.5	06/18/14 16:04	
n-Heptane	ug/m3	ND	0.83	06/18/14 16:04	
n-Hexane	ug/m3	ND	0.72	06/18/14 16:04	
Naphthalene	ug/m3	ND	2.7	06/18/14 16:04	
o-Xylene	ug/m3	ND	0.88	06/18/14 16:04	
Propylene	ug/m3	ND	0.35	06/18/14 16:04	
Styrene	ug/m3	ND	0.87	06/18/14 16:04	
Tetrachloroethene	ug/m3	ND	0.69	06/18/14 16:04	
Tetrahydrofuran	ug/m3	ND	0.60	06/18/14 16:04	
Toluene	ug/m3	ND	0.77	06/18/14 16:04	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/18/14 16:04	
trans-1,3-Dichloropropene	ug/m3	ND	2.3	06/18/14 16:04	
Trichloroethene	ug/m3	ND	0.55	06/18/14 16:04	
Trichlorofluoromethane	ug/m3	ND	1.1	06/18/14 16:04	
Vinyl acetate	ug/m3	ND	0.72	06/18/14 16:04	
Vinyl chloride	ug/m3	ND	0.26	06/18/14 16:04	

LABORATORY CONTROL SAMPLE: 1711359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	50.1	90	72-128	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.4	95	72-136	
1,1,2-Trichloroethane	ug/m3	55.5	50.9	92	72-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	71.2	91	68-126	
1,1-Dichloroethane	ug/m3	41.2	37.5	91	68-128	
1,1-Dichloroethene	ug/m3	40.3	44.2	110	68-130	
1,2,4-Trichlorobenzene	ug/m3	75.5	81.1	107	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	49.6	99	71-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	74.4	95	73-136	
1,2-Dichlorobenzene	ug/m3	61.2	62.8	103	63-150	
1,2-Dichloroethane	ug/m3	41.2	38.5	94	71-132	
1,2-Dichloropropane	ug/m3	47	43.4	92	72-130	
1,3,5-Trimethylbenzene	ug/m3	50	50.1	100	73-136	
1,3-Butadiene	ug/m3	22.5	25.7	114	72-130	
1,3-Dichlorobenzene	ug/m3	61.2	61.3	100	69-142	
1,4-Dichlorobenzene	ug/m3	61.2	64.7	106	65-142	
2-Butanone (MEK)	ug/m3	30	31.3	104	71-135	
2-Hexanone	ug/m3	41.7	37.1	89	75-133	
2-Propanol	ug/m3	25	24.7	99	68-135	
4-Ethyltoluene	ug/m3	50	51.1	102	73-134	

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QUALITY CONTROL DATA

Project: Grass Given Mfg

Pace Project No.: 10270553

LABORATORY CONTROL SAMPLE: 1711359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	47.0	113	72-137	
Acetone	ug/m3	24.2	19.8	82	68-136	
Benzene	ug/m3	32.5	33.9	104	69-134	
Benzyl chloride	ug/m3	52.5	56.4	107	71-136	
Bromodichloromethane	ug/m3	68.2	62.3	91	74-129	
Bromoform	ug/m3	105	95.7	91	69-138	
Bromomethane	ug/m3	39.5	54.9	139	68-127	1M
Carbon disulfide	ug/m3	31.7	27.5	87	68-130	
Carbon tetrachloride	ug/m3	64	58.2	91	66-134	
Chlorobenzene	ug/m3	46.8	49.1	105	72-137	
Chloroethane	ug/m3	26.8	24.9	93	69-128	
Chloroform	ug/m3	49.7	48.8	98	72-127	
Chloromethane	ug/m3	21	20.5	98	69-125	
cis-1,2-Dichloroethene	ug/m3	40.3	42.2	105	71-135	
cis-1,3-Dichloropropene	ug/m3	46.2	50.4	109	74-134	
Cyclohexane	ug/m3	35	40.7	116	72-130	
Dibromochloromethane	ug/m3	86.6	79.9	92	73-133	
Dichlorodifluoromethane	ug/m3	50.3	45.0	90	69-125	
Dichlorotetrafluoroethane	ug/m3	71.1	65.2	92	68-128	
Ethanol	ug/m3	19.2	20.8	108	70-134	
Ethyl acetate	ug/m3	36.6	38.7	106	71-134	
Ethylbenzene	ug/m3	44.2	44.8	101	73-139	
Hexachloro-1,3-butadiene	ug/m3	108	112	103	30-150	
m&p-Xylene	ug/m3	44.2	48.9	111	73-139	
Methyl-tert-butyl ether	ug/m3	36.7	38.3	104	72-132	
Methylene Chloride	ug/m3	35.3	28.9	82	64-134	
n-Heptane	ug/m3	41.7	44.6	107	70-130	
n-Hexane	ug/m3	35.8	37.1	104	69-128	
Naphthalene	ug/m3	53.3	55.8	105	61-150	
o-Xylene	ug/m3	44.2	43.9	99	71-138	
Propylene	ug/m3	17.5	16.9	97	69-133	
Styrene	ug/m3	43.3	44.3	102	74-136	
Tetrachloroethene	ug/m3	69	74.1	107	69-136	
Tetrahydrofuran	ug/m3	30	29.4	98	73-131	
Toluene	ug/m3	38.3	42.9	112	67-133	
trans-1,2-Dichloroethene	ug/m3	40.3	45.6	113	70-131	
trans-1,3-Dichloropropene	ug/m3	46.2	45.7	99	72-135	
Trichloroethene	ug/m3	54.6	58.4	107	70-135	
Trichlorofluoromethane	ug/m3	57.1	50.8	89	67-125	
Vinyl acetate	ug/m3	35.8	40.3	113	72-133	
Vinyl chloride	ug/m3	26	28.7	110	69-132	

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QUALITY CONTROL DATA

Project: Grass Given Mfg

Pace Project No.: 10270553

SAMPLE DUPLICATE: 1711844

Parameter	Units	10270532006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	38.6	38.0	1	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	19.9J		25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	ND	ND		25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	222	226	2	25	
Benzene	ug/m3	ND	ND		25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	91.9	79.0	15	25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	33.1	26.6	22	25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	ND		25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	136	139	3	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	40.8J		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	58.8J		25	
n-Heptane	ug/m3	39.7	42.0	6	25	

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QUALITY CONTROL DATA

Project: Grass Given Mfg

Pace Project No.: 10270553

SAMPLE DUPLICATE: 1711844

Parameter	Units	10270532006 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	53.1	58.5	10	25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	35.6	37.5	5	25	
Propylene	ug/m3	71.3	62.1	14	25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	5920	5930	.1	25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	228	236	4	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	245	228	7	25	
Trichlorofluoromethane	ug/m3	ND	ND		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: Grass Given Mfg

Pace Project No.: 10270553

QC Batch: AIR/20586

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10270553005

METHOD BLANK: 1712237

Matrix: Air

Associated Lab Samples: 10270553005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/18/14 23:25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	06/18/14 23:25	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/18/14 23:25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	06/18/14 23:25	
1,1-Dichloroethane	ug/m3	ND	0.82	06/18/14 23:25	
1,1-Dichloroethene	ug/m3	ND	0.81	06/18/14 23:25	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	06/18/14 23:25	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	06/18/14 23:25	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	06/18/14 23:25	
1,2-Dichlorobenzene	ug/m3	ND	1.2	06/18/14 23:25	
1,2-Dichloroethane	ug/m3	ND	0.41	06/18/14 23:25	
1,2-Dichloropropane	ug/m3	ND	0.94	06/18/14 23:25	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	06/18/14 23:25	
1,3-Butadiene	ug/m3	ND	0.45	06/18/14 23:25	
1,3-Dichlorobenzene	ug/m3	ND	1.2	06/18/14 23:25	
1,4-Dichlorobenzene	ug/m3	ND	1.2	06/18/14 23:25	
2-Butanone (MEK)	ug/m3	ND	0.60	06/18/14 23:25	
2-Hexanone	ug/m3	ND	0.83	06/18/14 23:25	
2-Propanol	ug/m3	ND	1.2	06/18/14 23:25	
4-Ethyltoluene	ug/m3	ND	1.0	06/18/14 23:25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	06/18/14 23:25	
Acetone	ug/m3	ND	2.4	06/18/14 23:25	
Benzene	ug/m3	ND	0.32	06/18/14 23:25	
Benzyl chloride	ug/m3	ND	1.0	06/18/14 23:25	
Bromodichloromethane	ug/m3	ND	1.4	06/18/14 23:25	
Bromoform	ug/m3	ND	2.1	06/18/14 23:25	
Bromomethane	ug/m3	ND	0.79	06/18/14 23:25	
Carbon disulfide	ug/m3	ND	0.63	06/18/14 23:25	
Carbon tetrachloride	ug/m3	ND	0.64	06/18/14 23:25	
Chlorobenzene	ug/m3	ND	0.94	06/18/14 23:25	
Chloroethane	ug/m3	ND	0.54	06/18/14 23:25	
Chloroform	ug/m3	ND	0.99	06/18/14 23:25	
Chloromethane	ug/m3	ND	0.42	06/18/14 23:25	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/18/14 23:25	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	06/18/14 23:25	
Cyclohexane	ug/m3	ND	0.70	06/18/14 23:25	
Dibromochloromethane	ug/m3	ND	1.7	06/18/14 23:25	
Dichlorodifluoromethane	ug/m3	ND	1.0	06/18/14 23:25	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	06/18/14 23:25	
Ethanol	ug/m3	ND	0.96	06/18/14 23:25	
Ethyl acetate	ug/m3	ND	0.73	06/18/14 23:25	

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QUALITY CONTROL DATA

Project: Grass Given Mfg
Pace Project No.: 10270553

METHOD BLANK: 1712237 Matrix: Air
Associated Lab Samples: 10270553005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	06/18/14 23:25	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	06/18/14 23:25	
m&p-Xylene	ug/m3	ND	1.8	06/18/14 23:25	
Methyl-tert-butyl ether	ug/m3	ND	0.73	06/18/14 23:25	
Methylene Chloride	ug/m3	ND	3.5	06/18/14 23:25	
n-Heptane	ug/m3	ND	0.83	06/18/14 23:25	
n-Hexane	ug/m3	ND	0.72	06/18/14 23:25	
Naphthalene	ug/m3	ND	2.7	06/18/14 23:25	
o-Xylene	ug/m3	ND	0.88	06/18/14 23:25	
Propylene	ug/m3	ND	0.35	06/18/14 23:25	
Styrene	ug/m3	ND	0.87	06/18/14 23:25	
Tetrachloroethene	ug/m3	ND	0.69	06/18/14 23:25	
Tetrahydrofuran	ug/m3	ND	0.60	06/18/14 23:25	
Toluene	ug/m3	ND	0.77	06/18/14 23:25	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/18/14 23:25	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	06/18/14 23:25	
Trichloroethene	ug/m3	ND	0.55	06/18/14 23:25	
Trichlorofluoromethane	ug/m3	ND	1.1	06/18/14 23:25	
Vinyl acetate	ug/m3	ND	0.72	06/18/14 23:25	
Vinyl chloride	ug/m3	ND	0.26	06/18/14 23:25	

LABORATORY CONTROL SAMPLE: 1712238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	53.6	97	72-128	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	64.2	92	72-136	
1,1,2-Trichloroethane	ug/m3	55.5	52.3	94	72-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	74.7	96	68-126	
1,1-Dichloroethane	ug/m3	41.2	40.1	97	68-128	
1,1-Dichloroethene	ug/m3	40.3	40.5	101	68-130	
1,2,4-Trichlorobenzene	ug/m3	75.5	66.3	88	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	52.0	104	71-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	78.8	101	73-136	
1,2-Dichlorobenzene	ug/m3	61.2	58.1	95	63-150	
1,2-Dichloroethane	ug/m3	41.2	40.8	99	71-132	
1,2-Dichloropropane	ug/m3	47	43.1	92	72-130	
1,3,5-Trimethylbenzene	ug/m3	50	54.2	108	73-136	
1,3-Butadiene	ug/m3	22.5	22.4	100	72-130	
1,3-Dichlorobenzene	ug/m3	61.2	59.7	98	69-142	
1,4-Dichlorobenzene	ug/m3	61.2	53.0	87	65-142	
2-Butanone (MEK)	ug/m3	30	29.6	99	71-135	
2-Hexanone	ug/m3	41.7	47.3	114	75-133	
2-Propanol	ug/m3	25	24.8	99	68-135	
4-Ethyltoluene	ug/m3	50	57.1	114	73-134	

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QUALITY CONTROL DATA

Project: Grass Given Mfg

Pace Project No.: 10270553

LABORATORY CONTROL SAMPLE: 1712238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	46.3	111	72-137	
Acetone	ug/m3	24.2	19.2	80	68-136	
Benzene	ug/m3	32.5	33.4	103	69-134	
Benzyl chloride	ug/m3	52.5	51.7	98	71-136	
Bromodichloromethane	ug/m3	68.2	67.4	99	74-129	
Bromoform	ug/m3	105	105	100	69-138	
Bromomethane	ug/m3	39.5	37.3	95	68-127	
Carbon disulfide	ug/m3	31.7	28.4	90	68-130	
Carbon tetrachloride	ug/m3	64	61.7	96	66-134	
Chlorobenzene	ug/m3	46.8	44.0	94	72-137	
Chloroethane	ug/m3	26.8	25.7	96	69-128	
Chloroform	ug/m3	49.7	47.1	95	72-127	
Chloromethane	ug/m3	21	20.4	97	69-125	
cis-1,2-Dichloroethene	ug/m3	40.3	42.9	106	71-135	
cis-1,3-Dichloropropene	ug/m3	46.2	49.6	107	74-134	
Cyclohexane	ug/m3	35	38.4	110	72-130	
Dibromochloromethane	ug/m3	86.6	85.2	98	73-133	
Dichlorodifluoromethane	ug/m3	50.3	47.4	94	69-125	
Dichlorotetrafluoroethane	ug/m3	71.1	67.6	95	68-128	
Ethanol	ug/m3	19.2	19.6	102	70-134	
Ethyl acetate	ug/m3	36.6	37.9	103	71-134	
Ethylbenzene	ug/m3	44.2	49.9	113	73-139	
Hexachloro-1,3-butadiene	ug/m3	108	92.5	85	30-150	
m&p-Xylene	ug/m3	44.2	47.9	109	73-139	
Methyl-tert-butyl ether	ug/m3	36.7	38.2	104	72-132	
Methylene Chloride	ug/m3	35.3	30.6	87	64-134	
n-Heptane	ug/m3	41.7	46.4	111	70-130	
n-Hexane	ug/m3	35.8	35.9	100	69-128	
Naphthalene	ug/m3	53.3	51.1	96	61-150	
o-Xylene	ug/m3	44.2	47.5	108	71-138	
Propylene	ug/m3	17.5	20.3	116	69-133	
Styrene	ug/m3	43.3	48.9	113	74-136	
Tetrachloroethene	ug/m3	69	67.3	98	69-136	
Tetrahydrofuran	ug/m3	30	33.3	111	73-131	
Toluene	ug/m3	38.3	38.7	101	67-133	
trans-1,2-Dichloroethene	ug/m3	40.3	39.1	97	70-131	
trans-1,3-Dichloropropene	ug/m3	46.2	54.2	117	72-135	
Trichloroethene	ug/m3	54.6	54.4	100	70-135	
Trichlorofluoromethane	ug/m3	57.1	54.7	96	67-125	
Vinyl acetate	ug/m3	35.8	38.3	107	72-133	
Vinyl chloride	ug/m3	26	25.7	99	69-132	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Grass Given Mfg

Pace Project No.: 10270553

METHOD BLANK: 1712588

Matrix: Air

Associated Lab Samples: 10270553001, 10270553002, 10270553003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	06/19/14 21:13	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	06/19/14 21:13	
m&p-Xylene	ug/m3	ND	1.8	06/19/14 21:13	
Methyl-tert-butyl ether	ug/m3	ND	0.73	06/19/14 21:13	
Methylene Chloride	ug/m3	ND	3.5	06/19/14 21:13	
n-Heptane	ug/m3	ND	0.83	06/19/14 21:13	
n-Hexane	ug/m3	ND	0.72	06/19/14 21:13	
Naphthalene	ug/m3	ND	2.7	06/19/14 21:13	
o-Xylene	ug/m3	ND	0.88	06/19/14 21:13	
Propylene	ug/m3	ND	0.35	06/19/14 21:13	
Styrene	ug/m3	ND	0.87	06/19/14 21:13	
Tetrachloroethene	ug/m3	ND	0.69	06/19/14 21:13	
Tetrahydrofuran	ug/m3	ND	0.60	06/19/14 21:13	
Toluene	ug/m3	ND	0.77	06/19/14 21:13	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/19/14 21:13	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	06/19/14 21:13	
Trichloroethene	ug/m3	ND	0.55	06/19/14 21:13	
Trichlorofluoromethane	ug/m3	ND	1.1	06/19/14 21:13	
Vinyl acetate	ug/m3	ND	0.72	06/19/14 21:13	
Vinyl chloride	ug/m3	ND	0.26	06/19/14 21:13	

LABORATORY CONTROL SAMPLE: 1712589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	45.9	83	72-128	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	51.9	74	72-136	
1,1,2-Trichloroethane	ug/m3	55.5	42.7	77	72-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	62.4	80	68-126	
1,1-Dichloroethane	ug/m3	41.2	33.4	81	68-128	
1,1-Dichloroethene	ug/m3	40.3	34.6	86	68-130	
1,2,4-Trichlorobenzene	ug/m3	75.5	58.0	77	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	43.3	87	71-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	62.6	80	73-136	
1,2-Dichlorobenzene	ug/m3	61.2	47.8	78	63-150	
1,2-Dichloroethane	ug/m3	41.2	36.0	88	71-132	
1,2-Dichloropropane	ug/m3	47	38.3	82	72-130	
1,3,5-Trimethylbenzene	ug/m3	50	42.5	85	73-136	
1,3-Butadiene	ug/m3	22.5	19.5	87	72-130	
1,3-Dichlorobenzene	ug/m3	61.2	50.0	82	69-142	
1,4-Dichlorobenzene	ug/m3	61.2	44.3	73	65-142	
2-Butanone (MEK)	ug/m3	30	24.2	81	71-135	
2-Hexanone	ug/m3	41.7	38.6	93	75-133	
2-Propanol	ug/m3	25	21.0	84	68-135	
4-Ethyltoluene	ug/m3	50	47.0	94	73-134	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Grass Given Mfg

Pace Project No.: 10270553

LABORATORY CONTROL SAMPLE: 1712589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	38.3	92	72-137	
Acetone	ug/m3	24.2	17.3	72	68-136	
Benzene	ug/m3	32.5	27.9	86	69-134	
Benzyl chloride	ug/m3	52.5	41.9	80	71-136	
Bromodichloromethane	ug/m3	68.2	56.6	83	74-129	
Bromoform	ug/m3	105	86.4	82	69-138	
Bromomethane	ug/m3	39.5	32.0	81	68-127	
Carbon disulfide	ug/m3	31.7	24.2	77	68-130	
Carbon tetrachloride	ug/m3	64	52.0	81	66-134	
Chlorobenzene	ug/m3	46.8	35.8	76	72-137	
Chloroethane	ug/m3	26.8	22.3	83	69-128	
Chloroform	ug/m3	49.7	41.4	83	72-127	
Chloromethane	ug/m3	21	17.5	83	69-125	
cis-1,2-Dichloroethene	ug/m3	40.3	35.1	87	71-135	
cis-1,3-Dichloropropene	ug/m3	46.2	41.2	89	74-134	
Cyclohexane	ug/m3	35	30.7	88	72-130	
Dibromochloromethane	ug/m3	86.6	71.2	82	73-133	
Dichlorodifluoromethane	ug/m3	50.3	42.3	84	69-125	
Dichlorotetrafluoroethane	ug/m3	71.1	58.3	82	68-128	
Ethanol	ug/m3	19.2	15.7	82	70-134	
Ethyl acetate	ug/m3	36.6	31.5	86	71-134	
Ethylbenzene	ug/m3	44.2	41.2	93	73-139	
Hexachloro-1,3-butadiene	ug/m3	108	79.2	73	30-150	
m&p-Xylene	ug/m3	44.2	39.7	90	73-139	
Methyl-tert-butyl ether	ug/m3	36.7	30.6	83	72-132	
Methylene Chloride	ug/m3	35.3	26.2	74	64-134	
n-Heptane	ug/m3	41.7	39.9	96	70-130	
n-Hexane	ug/m3	35.8	29.8	83	69-128	
Naphthalene	ug/m3	53.3	44.5	83	61-150	
o-Xylene	ug/m3	44.2	38.3	87	71-138	
Propylene	ug/m3	17.5	17.3	99	69-133	
Styrene	ug/m3	43.3	39.1	90	74-136	
Tetrachloroethene	ug/m3	69	55.0	80	69-136	
Tetrahydrofuran	ug/m3	30	26.6	89	73-131	
Toluene	ug/m3	38.3	32.0	84	67-133	
trans-1,2-Dichloroethene	ug/m3	40.3	32.8	81	70-131	
trans-1,3-Dichloropropene	ug/m3	46.2	43.9	95	72-135	
Trichloroethene	ug/m3	54.6	46.0	84	70-135	
Trichlorofluoromethane	ug/m3	57.1	49.0	86	67-125	
Vinyl acetate	ug/m3	35.8	31.7	89	72-133	
Vinyl chloride	ug/m3	26	22.1	85	69-132	

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QUALITY CONTROL DATA

Project: Grass Given Mfg

Pace Project No.: 10270553

SAMPLE DUPLICATE: 1713615

Parameter	Units	10270016001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	1.3	1.1	10	25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	ND	1J		25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	9.9	9.1	9	25	
Benzene	ug/m3	ND	ND		25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	1.0	0.86	16	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.4	2.1	13	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	4.7	4.2	11	25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	2.1J		25	
n-Heptane	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: Grass Given Mfg

Pace Project No.: 10270553

SAMPLE DUPLICATE: 1713615

Parameter	Units	10270016001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.1	1J		25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	ND		25	
Propylene	ug/m3	ND	0.70		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	ND	1J		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	1.6	1.4	15	25	
Trichlorofluoromethane	ug/m3	ND	1.1J		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Grass Given Mfg
Pace Project No.: 10270553

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10270553001

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10270553002

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10270553003

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10270553004

[1] The Total Hydrocarbon (THC) pattern occurred in the first half of the chromatogram (before toluene).

[2] This result is reported from a serial dilution.

Sample: 10270553005

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

[2] This result is reported from a serial dilution.

ANALYTE QUALIFIERS

1M Analyte recovered high in the laboratory control sample (LCS) at 139.01% exceeding QC limits of 68%-127%. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Grass Given Mfg

Pace Project No.: 10270553

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10270553001	SS-1	TO-15	AIR/20591		
10270553002	SS-3	TO-15	AIR/20591		
10270553003	SS-2	TO-15	AIR/20591		
10270553004	SS-4	TO-15	AIR/20582		
10270553005	SS-5	TO-15	AIR/20586		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10270553002
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-JUN-2014 04:48

Client SDG: 061914.b
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.004	131	J
2. 541-05-9	Cyclotrisiloxane, hexamethy	9.133	1.32	NJ
3.	Unknown	10.287	5.27	J
4. 629-64-1	Heptane, 1,1'-oxybis-	10.457	1.51	NJ
5.	Unknown	11.067	3.32	J
6. 526-73-8	Benzene, 1,2,3-trimethyl-	13.137	3.38	NJ
7.	Unknown	15.950	8.56	J
8.	Unknown	16.104	8.12	J
9.	Unknown	16.245	13.9	J
10.	Unknown	16.527	7.54	J

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\061914.b\17025.d
 Lab Smp Id: 10270553002
 Inj Date : 20-JUN-2014 04:48
 Operator : DR1
 Smp Info :
 Misc Info : 20591
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\061914.b\TO15_169-14.m
 Meth Date : 20-Jun-2014 08:09 drandall Quant Type: ISTD
 Cal Date : 18-JUN-2014 20:29 Cal File: 16914.d
 Als bottle: 23
 Dil Factor: 8.70000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: 10MNCREINDL

Inst ID: 10airD.i

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	8.700	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

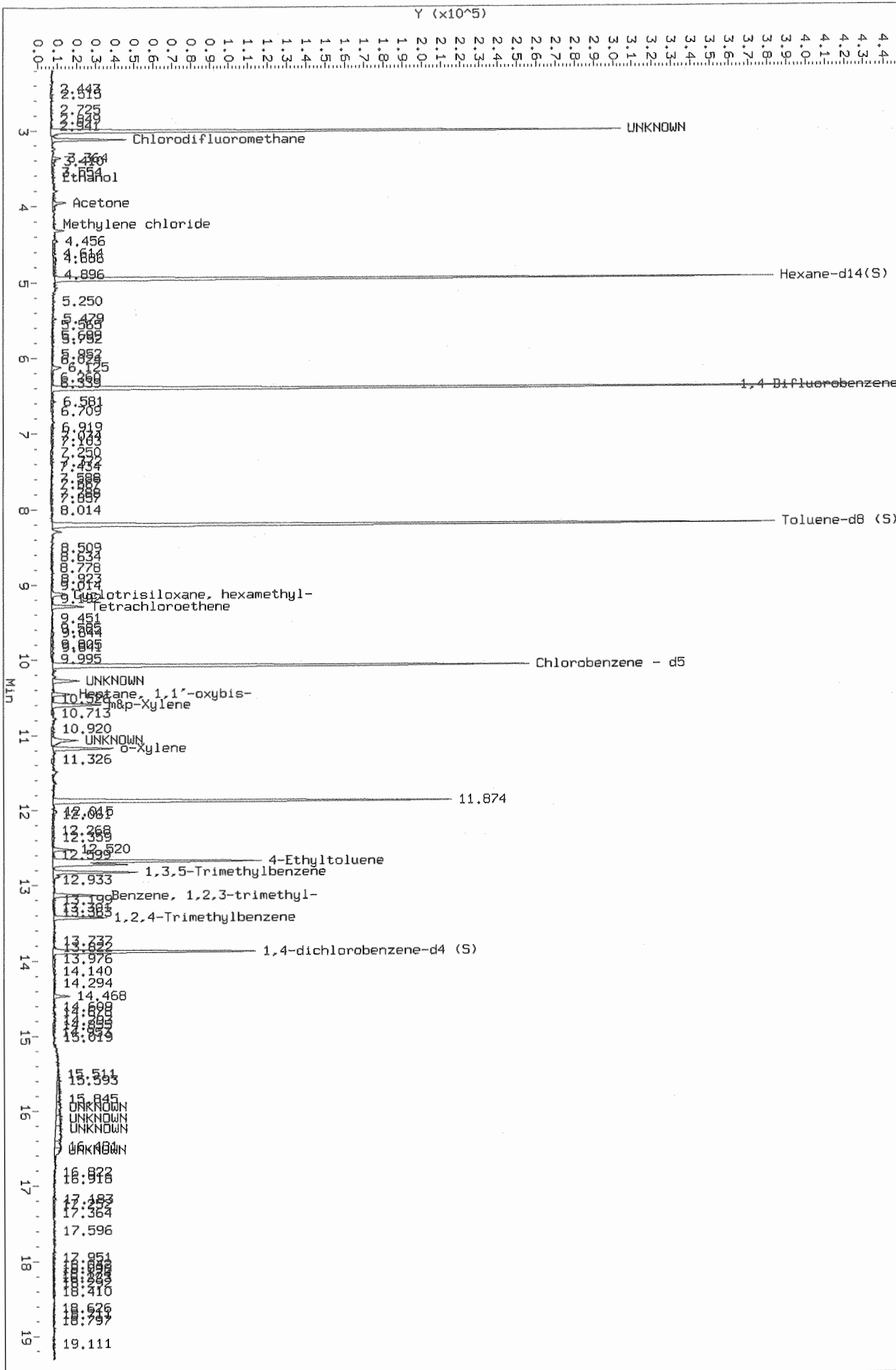
COMPOUND	RT	AREA	AMOUNT
1 Chlorodifluoromethane	3.118	57567	1.792
60 Tetrachloroethene	9.293	30781	0.236
* 61 Chlorobenzene - d5	10.080	432327	10.000
64 m&p-Xylene	10.598	52690	0.480
67 o-Xylene	11.176	55391	0.552
74 1,2,4-Trimethylbenzene	13.432	46340	0.415
\$ 77 1,4-dichlorobenzene-d4	13.878	189500	8.642

RT	CONCENTRATIONS			QUAL	QUANT		
	AREA	ON-COL(ppbv)	FINAL(ppbv)		LIBRARY	LIB ENTRY	CPND #
Unknown							
3.004	483381	15.0508682	131	0		0	1
Cyclotrisiloxane, hexamethyl-							
9.133	19793	0.15197323	1.32	74	NIST05.L	73123	60

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL(ppbv)	FINAL(ppbv)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
10.287	26212	0.60629071	5.27	0		0	61
Heptane, 1,1'-oxybis-					CAS #: 629-64-1		
10.457	19015	0.17334185	1.51	78	NIST05.L	67342	64
Unknown					CAS #:		
11.067	38348	0.38200176	3.32	0		0	67
Benzene, 1,2,3-trimethyl-					CAS #: 526-73-8		
13.137	43397	0.38890548	3.38	91	NIST05.L	9118	74
Unknown					CAS #:		
15.950	21577	0.98395907	8.56	0		0	77
Unknown					CAS #:		
16.104	20458	0.93291899	8.12	0		0	77
Unknown					CAS #:		
16.245	35025	1.59723425	13.9	0		0	77
Unknown					CAS #:		
16.527	19010	0.86692106	7.54	0		0	77

Data File: \\192.168.10.12\chem\10a1r.D.1\061914.b\17025.d
 Injection Date: 20-JUN-2014 04:48
 Instrument: 10a1r.D.1
 Client Sample ID:

HP ChemStation MS 17025.d: 2.190 to 19.318 Min



Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10270553003
Operator : DR1
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 20-JUN-2014 04:16

Client SDG: 061914.b
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.007	3000	J
2.	Unknown	6.122	3.31	J
3.	Unknown	7.857	19.1	J
4. 560-21-4	Pentane, 2,3,3-trimethyl-	8.008	24.8	NJ
5. 541-05-9	Cyclotrisiloxane, hexamethy	9.126	11.4	NJ
6.	Unknown	10.283	29.7	J
7.	Unknown	11.070	19.7	J
8. 611-14-3	Benzene, 1-ethyl-2-methyl-	13.133	34.5	NJ
9. 6052-63-7	Benzeneethanol, .beta.-ethe	14.465	75.6	NJ
10.	Unknown	16.311	87.8	J

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\061914.b\17024.d
 Lab Smp Id: 10270553003
 Inj Date : 20-JUN-2014 04:16
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 20591
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\061914.b\TO15_169-14.m
 Meth Date : 20-Jun-2014 08:09 drandall Quant Type: ISTD
 Cal Date : 18-JUN-2014 20:29 Cal File: 16914.d
 Als bottle: 22
 Dil Factor: 34.80000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNCREINDL

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	34.800	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

COMPOUND	RT	AREA	AMOUNT
10 Ethanol	3.702	11901	0.497
39 Benzene	6.184	18520	0.073
\$ 54 Toluene-d8 (S)	8.201	674965	9.903
60 Tetrachloroethene	9.293	499101	3.689
62 Chlorobenzene	10.126	19036	0.308
67 o-Xylene	11.175	118959	1.096
74 1,2,4-Trimethylbenzene	13.428	142758	1.156
\$ 77 1,4-dichlorobenzene-d4	13.874	204510	8.729

RT	CONCENTRATIONS			QUAL	QUANT		
	AREA	ON-COL(ppbv)	FINAL(ppbv)		LIBRARY	LIB ENTRY	CPND #
Unknown							
3.007	2063561	86.1677336	3000	0		0	10

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL(ppbv)	FINAL(ppbv)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
6.122	24025	0.09502071	3.31	0		0	39
Unknown					CAS #:		
7.857	37428	0.54914068	19.1	0		0	54
Pentane, 2,3,3-trimethyl-					CAS #: 560-21-4		
8.008	48480	0.71128877	24.8	72	NIST05.L	7454	54
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
9.126	44409	0.32826599	11.4	90	NIST05.L	73123	60
Unknown					CAS #:		
10.283	52770	0.85433851	29.7	0		0	62
Unknown					CAS #:		
11.070	61344	0.56523768	19.7	0		0	67
Benzene, 1-ethyl-2-methyl-					CAS #: 611-14-3		
13.133	122381	0.99080973	34.5	95	NIST05.L	9134	74
Benzeneethanol, .beta.-ethenyl-					CAS #: 6052-63-7		
14.465	50862	2.17103657	75.6	72	NIST05.L	21793	77
Unknown					CAS #:		
16.311	59107	2.52297023	87.8	0		0	77

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

102 705 11

Section A Required Client Information: 18504 Page: 1 of 1

Section B Required Project Information: Invoice Information:

Company: The Javelin Group Attention: Same
 Address: 10125 Cassdown Cir - #107
 Eden Prairie, MN 55344
 Purchase Order No.:
 Project Name: Grossign Mfg
 Project Number:
 Email To: K. Pierson
 Phone: 952.380.2668
 Fax:
 Requested Due Date/TAT: Normal

Section C COLLECTED

ITEM #	Valid Media Codes MEDIA Tedlar Bag 1 Liter Summa Can 6 Liter Summa Can Low Volume Puff High Volume Puff Other	PID Reading (Client only)	COMPOSITE START END/DUR		COMPOSITE -		Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:	TO-15 Short List*							Pace Lab ID
			DATE	TIME	DATE	TIME						TO-3 (Fixed Gas %)	TO-3M (Methane)	TO-4 (PCBS)	TO-13 (PAH)	TO-14	TO-15	TO-15 Short List*	
1	SS-1	1LC	06/14	1453	-	-	-30	0	1375			X	X	X	X	X	001		
2	SS-3			1457					1356			X	X	X	X	X	002		
3	SS-2			1502					1378			X	X	X	X	X	003		
4	SS-4			1507					1451			X	X	X	X	X	004		
5	AS-1								1410			X	X	X	X	X	005		
6	AS-2																		
7	AS-3																		

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

RELINQUISHED BY / AFFILIATION: Brad M C... / Javelin
 DATE: 6/12/14
 TIME: 1009
 ACCEPTED BY / AFFILIATION: Brad M C... / Pace
 DATE: 6/12/14
 TIME: 1009

Comments:

SAMPLER NAME AND SIGNATURE: Brad M. C...
 PRINT Name of SAMPLER: Brad M. C...
 SIGNATURE of SAMPLER: Brad M. C...
 DATE Signed (MM/DD/YY): 06/12/14

Temp in °C: Y/N
 Received on Ice: Y/N
 Custody Sealed Cooler: Y/N
 Samples Intact: Y/N

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.09

Document Revised: 26Dec2013
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: The Savelin Group Project #:

WO# : 10270553

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No
 Optional: Proj. Due Date: Proj. Name:

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447
 Date & Initials of Person Examining Contents: 6/12/14

Temp should be above freezing to 6°C Correction Factor: _____
 Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>air can</u>		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received: rec. 5 gauges

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>55-1</u>	<u>1375</u>				
<u>55-3</u>	<u>1356</u>				
<u>55-2</u>	<u>1378</u>				
<u>55-4</u>	<u>1451</u>				
<u>55-5</u>	<u>1410</u>				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: Kalvin Xiong Date: June 13, 2014
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

APPENDIX E

INDOOR AIR QUALITY

LABORATORY ANALYTICAL REPORT

June 23, 2014

Kevin Pierson
The Javelin Group
10125 Crosstown Circle
Suite 107
Eden Prairie, MN 55344

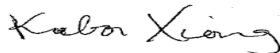
RE: Project: 2013-P0183-0061 Fmr. Gross Giv
Pace Project No.: 10270745

Dear Kevin Pierson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kabor Xiong
kabor.xiong@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #40770

Alabama Certification #40770

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #: Pace

Georgia Certification #: 959

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

Wisconsin Certification #: 999407970

West Virginia Certification #: 382

West Virginia TO-15 Approval

West Virginia DHHR #:9952C

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10270745001	AS-1	Air	06/13/14 14:55	06/13/14 16:19
10270745002	AS-2	Air	06/13/14 15:00	06/13/14 16:19
10270745003	AS-3	Air	06/13/14 15:10	06/13/14 16:19
10270745004	SV-4	Air	06/13/14 13:00	06/13/14 16:19
10270745005	SV-5	Air	06/13/14 13:10	06/13/14 16:19
10270745006	SV-6	Air	06/13/14 12:50	06/13/14 16:19
10270745007	SV-7	Air	06/13/14 12:30	06/13/14 16:19

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10270745001	AS-1	TO-15	DL1, JAM	61
10270745002	AS-2	TO-15	DL1, JAM	61
10270745003	AS-3	TO-15	DL1, JAM	61
10270745004	SV-4	TO-15	DL1, JAM	61
10270745005	SV-5	TO-15	DL1	61
10270745006	SV-6	TO-15	DL1	61
10270745007	SV-7	TO-15	DL1	61

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Method: TO-15

Description: TO15 MSV AIR

Client: The Javelin Group

Date: June 23, 2014

General Information:

7 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/20605

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 1714383)
 - Ethanol
- SV-6 (Lab ID: 10270745006)
 - Ethanol
- SV-7 (Lab ID: 10270745007)
 - Ethanol

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Additional Comments:

Sample Comments:

- K1: The Total Hydrocarbon (THC) pattern occurred in the first half of the chromatogram (before toluene).
 - AS-1 (Lab ID: 10270745001)
- K2: The Total Hydrocarbon (THC) pattern occurred in the second half of the chromatogram (after toluene).
 - AS-2 (Lab ID: 10270745002)
- K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).
 - AS-3 (Lab ID: 10270745003)
 - SV-4 (Lab ID: 10270745004)
- A3: This result is reported from a serial dilution.
 - SV-5 (Lab ID: 10270745005)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Method: TO-15

Description: TO15 MSV AIR

Client: The Javelin Group

Date: June 23, 2014

Sample Comments:

K1: The Total Hydrocarbon (THC) pattern occurred in the first half of the chromatogram (before toluene).

- SV-6 (Lab ID: 10270745006)

K3: The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

- SV-7 (Lab ID: 10270745007)

K2: The Total Hydrocarbon (THC) pattern occurred in the second half of the chromatogram (after toluene).

- SV-5 (Lab ID: 10270745005)

Analyte Comments:

QC Batch: AIR/20607

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- AS-1 (Lab ID: 10270745001)
 - Ethanol
- AS-2 (Lab ID: 10270745002)
 - Ethanol

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Sample Project No.: 10270745

Sample: AS-1		Lab ID: 10270745001		Collected: 06/13/14 14:55		Received: 06/13/14 16:19		Matrix: Air	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	12.4	ug/m3	4.1	2.0	1.68		06/19/14 21:01	67-64-1	
Benzene	5.5	ug/m3	1.1	0.20	1.68		06/19/14 21:01	71-43-2	
Benzyl chloride	ND	ug/m3	1.8	0.88	1.68		06/19/14 21:01	100-44-7	
Bromodichloromethane	ND	ug/m3	2.3	0.31	1.68		06/19/14 21:01	75-27-4	
Bromoform	ND	ug/m3	8.8	0.54	1.68		06/19/14 21:01	75-25-2	
Bromomethane	ND	ug/m3	1.3	0.45	1.68		06/19/14 21:01	74-83-9	
1,3-Butadiene	ND	ug/m3	1.9	0.14	1.68		06/19/14 21:01	106-99-0	
2-Butanone (MEK)	ND	ug/m3	6.2	0.46	1.68		06/19/14 21:01	78-93-3	
Carbon disulfide	ND	ug/m3	1.1	0.12	1.68		06/19/14 21:01	75-15-0	
Carbon tetrachloride	5.4	ug/m3	5.4	0.54	1.68		06/19/14 21:01	56-23-5	
Chlorobenzene	ND	ug/m3	1.6	0.18	1.68		06/19/14 21:01	108-90-7	
Chloroethane	ND	ug/m3	2.3	0.27	1.68		06/19/14 21:01	75-00-3	
Chloroform	ND	ug/m3	1.7	0.30	1.68		06/19/14 21:01	67-66-3	
Chloromethane	ND	ug/m3	0.71	0.32	1.68		06/19/14 21:01	74-87-3	
Cyclohexane	9.8	ug/m3	2.9	0.21	1.68		06/19/14 21:01	110-82-7	
Dibromochloromethane	ND	ug/m3	7.3	1.5	1.68		06/19/14 21:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	6.6	0.39	1.68		06/19/14 21:01	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.0	0.24	1.68		06/19/14 21:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.0	0.39	1.68		06/19/14 21:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.0	0.33	1.68		06/19/14 21:01	106-46-7	
Dichlorodifluoromethane	3.4	ug/m3	1.7	0.18	1.68		06/19/14 21:01	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.4	0.24	1.68		06/19/14 21:01	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.4	0.20	1.68		06/19/14 21:01	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	0.17	1.68		06/19/14 21:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	0.33	1.68		06/19/14 21:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	0.27	1.68		06/19/14 21:01	156-60-5	
1,2-Dichloropropane	ND	ug/m3	3.9	0.26	1.68		06/19/14 21:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	3.9	0.23	1.68		06/19/14 21:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.9	0.25	1.68		06/19/14 21:01	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.4	0.42	1.68		06/19/14 21:01	76-14-2	
Ethanol	136	ug/m3	1.6	0.53	1.68		06/19/14 21:01	64-17-5	E
Ethyl acetate	ND	ug/m3	3.1	0.21	1.68		06/19/14 21:01	141-78-6	
Ethylbenzene	3.3	ug/m3	1.5	0.30	1.68		06/19/14 21:01	100-41-4	
4-Ethyltoluene	3.1	ug/m3	1.7	0.29	1.68		06/19/14 21:01	622-96-8	
n-Heptane	ND	ug/m3	7.0	0.27	1.68		06/19/14 21:01	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	9.1	0.69	1.68		06/19/14 21:01	87-68-3	
n-Hexane	10.3	ug/m3	3.0	0.17	1.68		06/19/14 21:01	110-54-3	
2-Hexanone	ND	ug/m3	2.5	0.36	1.68		06/19/14 21:01	591-78-6	
Methylene Chloride	10.7	ug/m3	5.9	0.39	1.68		06/19/14 21:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	7.0	0.29	1.68		06/19/14 21:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.2	0.15	1.68		06/19/14 21:01	1634-04-4	
Naphthalene	4.8	ug/m3	4.5	0.43	1.68		06/19/14 21:01	91-20-3	
2-Propanol	ND	ug/m3	4.2	0.16	1.68		06/19/14 21:01	67-63-0	
Propylene	ND	ug/m3	1.4	0.44	4.03		06/21/14 16:30	115-07-1	
Styrene	ND	ug/m3	3.6	0.23	1.68		06/19/14 21:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.2	0.39	1.68		06/19/14 21:01	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Sample: AS-1 **Lab ID: 10270745001** Collected: 06/13/14 14:55 Received: 06/13/14 16:19 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	2.3	0.32	1.68		06/19/14 21:01	127-18-4	
Tetrahydrofuran	ND	ug/m3	5.0	0.23	1.68		06/19/14 21:01	109-99-9	
Toluene	17.9	ug/m3	1.3	0.23	1.68		06/19/14 21:01	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.5	0.61	1.68		06/19/14 21:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.9	0.23	1.68		06/19/14 21:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.92	0.41	1.68		06/19/14 21:01	79-00-5	
Trichloroethene	ND	ug/m3	0.92	0.30	1.68		06/19/14 21:01	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.9	0.23	1.68		06/19/14 21:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.7	0.27	1.68		06/19/14 21:01	76-13-1	
1,2,4-Trimethylbenzene	5.9	ug/m3	1.7	0.20	1.68		06/19/14 21:01	95-63-6	
1,3,5-Trimethylbenzene	2.2	ug/m3	1.7	0.35	1.68		06/19/14 21:01	108-67-8	
Vinyl acetate	ND	ug/m3	3.0	0.58	1.68		06/19/14 21:01	108-05-4	
Vinyl chloride	ND	ug/m3	0.87	0.16	1.68		06/19/14 21:01	75-01-4	
m&p-Xylene	9.6	ug/m3	3.0	0.24	1.68		06/19/14 21:01	179601-23-1	
o-Xylene	4.2	ug/m3	1.5	0.74	1.68		06/19/14 21:01	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Sample Project No.: 10270745

Sample: AS-2		Lab ID: 10270745002		Collected: 06/13/14 15:00		Received: 06/13/14 16:19		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	31.2	ug/m3	4.1	2.0	1.68		06/19/14 21:24	67-64-1	
Benzene	13.4	ug/m3	1.1	0.20	1.68		06/19/14 21:24	71-43-2	
Benzyl chloride	ND	ug/m3	1.8	0.88	1.68		06/19/14 21:24	100-44-7	
Bromodichloromethane	ND	ug/m3	2.3	0.31	1.68		06/19/14 21:24	75-27-4	
Bromoform	ND	ug/m3	8.8	0.54	1.68		06/19/14 21:24	75-25-2	
Bromomethane	ND	ug/m3	1.3	0.45	1.68		06/19/14 21:24	74-83-9	
1,3-Butadiene	ND	ug/m3	1.9	0.14	1.68		06/19/14 21:24	106-99-0	
2-Butanone (MEK)	8.8	ug/m3	6.2	0.46	1.68		06/19/14 21:24	78-93-3	
Carbon disulfide	2.0	ug/m3	1.1	0.12	1.68		06/19/14 21:24	75-15-0	
Carbon tetrachloride	ND	ug/m3	5.4	0.54	1.68		06/19/14 21:24	56-23-5	
Chlorobenzene	ND	ug/m3	1.6	0.18	1.68		06/19/14 21:24	108-90-7	
Chloroethane	ND	ug/m3	2.3	0.27	1.68		06/19/14 21:24	75-00-3	
Chloroform	ND	ug/m3	1.7	0.30	1.68		06/19/14 21:24	67-66-3	
Chloromethane	1.5	ug/m3	0.71	0.32	1.68		06/19/14 21:24	74-87-3	
Cyclohexane	19.3	ug/m3	2.9	0.21	1.68		06/19/14 21:24	110-82-7	
Dibromochloromethane	ND	ug/m3	7.3	1.5	1.68		06/19/14 21:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	6.6	0.39	1.68		06/19/14 21:24	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.0	0.24	1.68		06/19/14 21:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.0	0.39	1.68		06/19/14 21:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.0	0.33	1.68		06/19/14 21:24	106-46-7	
Dichlorodifluoromethane	4.1	ug/m3	1.7	0.18	1.68		06/19/14 21:24	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.4	0.24	1.68		06/19/14 21:24	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.4	0.20	1.68		06/19/14 21:24	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	0.17	1.68		06/19/14 21:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	0.33	1.68		06/19/14 21:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	0.27	1.68		06/19/14 21:24	156-60-5	
1,2-Dichloropropane	ND	ug/m3	3.9	0.26	1.68		06/19/14 21:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	3.9	0.23	1.68		06/19/14 21:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.9	0.25	1.68		06/19/14 21:24	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.4	0.42	1.68		06/19/14 21:24	76-14-2	
Ethanol	176	ug/m3	1.6	0.53	1.68		06/19/14 21:24	64-17-5	E
Ethyl acetate	ND	ug/m3	3.1	0.21	1.68		06/19/14 21:24	141-78-6	
Ethylbenzene	12.8	ug/m3	1.5	0.30	1.68		06/19/14 21:24	100-41-4	
4-Ethyltoluene	10.0	ug/m3	1.7	0.29	1.68		06/19/14 21:24	622-96-8	
n-Heptane	14.6	ug/m3	7.0	0.27	1.68		06/19/14 21:24	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	9.1	0.69	1.68		06/19/14 21:24	87-68-3	
n-Hexane	25.8	ug/m3	3.0	0.17	1.68		06/19/14 21:24	110-54-3	
2-Hexanone	4.8	ug/m3	2.5	0.36	1.68		06/19/14 21:24	591-78-6	
Methylene Chloride	7.7	ug/m3	5.9	0.39	1.68		06/19/14 21:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	7.0	0.29	1.68		06/19/14 21:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.2	0.15	1.68		06/19/14 21:24	1634-04-4	
Naphthalene	6.8	ug/m3	4.5	0.43	1.68		06/19/14 21:24	91-20-3	
2-Propanol	5.3	ug/m3	4.2	0.16	1.68		06/19/14 21:24	67-63-0	
Propylene	ND	ug/m3	1.4	0.43	3.9		06/21/14 17:02	115-07-1	
Styrene	4.2	ug/m3	3.6	0.23	1.68		06/19/14 21:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.2	0.39	1.68		06/19/14 21:24	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Sample: AS-2		Lab ID: 10270745002		Collected: 06/13/14 15:00		Received: 06/13/14 16:19		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	2.3	0.32	1.68		06/19/14 21:24	127-18-4	
Tetrahydrofuran	ND	ug/m3	5.0	0.23	1.68		06/19/14 21:24	109-99-9	
Toluene	75.0	ug/m3	1.3	0.23	1.68		06/19/14 21:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.5	0.61	1.68		06/19/14 21:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.9	0.23	1.68		06/19/14 21:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.92	0.41	1.68		06/19/14 21:24	79-00-5	
Trichloroethene	12.9	ug/m3	0.92	0.30	1.68		06/19/14 21:24	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.9	0.23	1.68		06/19/14 21:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.7	0.27	1.68		06/19/14 21:24	76-13-1	
1,2,4-Trimethylbenzene	20.9	ug/m3	1.7	0.20	1.68		06/19/14 21:24	95-63-6	
1,3,5-Trimethylbenzene	5.4	ug/m3	1.7	0.35	1.68		06/19/14 21:24	108-67-8	
Vinyl acetate	ND	ug/m3	3.0	0.58	1.68		06/19/14 21:24	108-05-4	
Vinyl chloride	ND	ug/m3	0.87	0.16	1.68		06/19/14 21:24	75-01-4	
m&p-Xylene	44.2	ug/m3	3.0	0.24	1.68		06/19/14 21:24	179601-23-1	
o-Xylene	16.1	ug/m3	1.5	0.74	1.68		06/19/14 21:24	95-47-6	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Sample Project No.: 10270745

Sample: AS-3		Lab ID: 10270745003		Collected: 06/13/14 15:10		Received: 06/13/14 16:19		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	25.7	ug/m3	4.1	2.0	1.68		06/19/14 21:47	67-64-1	
Benzene	3.1	ug/m3	1.1	0.20	1.68		06/19/14 21:47	71-43-2	
Benzyl chloride	ND	ug/m3	1.8	0.88	1.68		06/19/14 21:47	100-44-7	
Bromodichloromethane	ND	ug/m3	2.3	0.31	1.68		06/19/14 21:47	75-27-4	
Bromoform	ND	ug/m3	8.8	0.54	1.68		06/19/14 21:47	75-25-2	
Bromomethane	ND	ug/m3	1.3	0.45	1.68		06/19/14 21:47	74-83-9	
1,3-Butadiene	ND	ug/m3	1.9	0.14	1.68		06/19/14 21:47	106-99-0	
2-Butanone (MEK)	8.5	ug/m3	6.2	0.46	1.68		06/19/14 21:47	78-93-3	
Carbon disulfide	11.3	ug/m3	1.1	0.12	1.68		06/19/14 21:47	75-15-0	
Carbon tetrachloride	ND	ug/m3	5.4	0.54	1.68		06/19/14 21:47	56-23-5	
Chlorobenzene	ND	ug/m3	1.6	0.18	1.68		06/19/14 21:47	108-90-7	
Chloroethane	ND	ug/m3	2.3	0.27	1.68		06/19/14 21:47	75-00-3	
Chloroform	ND	ug/m3	1.7	0.30	1.68		06/19/14 21:47	67-66-3	
Chloromethane	0.98	ug/m3	0.71	0.32	1.68		06/19/14 21:47	74-87-3	
Cyclohexane	ND	ug/m3	2.9	0.21	1.68		06/19/14 21:47	110-82-7	
Dibromochloromethane	ND	ug/m3	7.3	1.5	1.68		06/19/14 21:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	6.6	0.39	1.68		06/19/14 21:47	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.0	0.24	1.68		06/19/14 21:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.0	0.39	1.68		06/19/14 21:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.0	0.33	1.68		06/19/14 21:47	106-46-7	
Dichlorodifluoromethane	4.5	ug/m3	1.7	0.18	1.68		06/19/14 21:47	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.4	0.24	1.68		06/19/14 21:47	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.4	0.20	1.68		06/19/14 21:47	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	0.17	1.68		06/19/14 21:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	0.33	1.68		06/19/14 21:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	0.27	1.68		06/19/14 21:47	156-60-5	
1,2-Dichloropropane	ND	ug/m3	3.9	0.26	1.68		06/19/14 21:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	3.9	0.23	1.68		06/19/14 21:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.9	0.25	1.68		06/19/14 21:47	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.4	0.42	1.68		06/19/14 21:47	76-14-2	
Ethanol	69.9	ug/m3	1.6	0.53	1.68		06/19/14 21:47	64-17-5	
Ethyl acetate	ND	ug/m3	3.1	0.21	1.68		06/19/14 21:47	141-78-6	
Ethylbenzene	2.9	ug/m3	1.5	0.30	1.68		06/19/14 21:47	100-41-4	
4-Ethyltoluene	5.3	ug/m3	1.7	0.29	1.68		06/19/14 21:47	622-96-8	
n-Heptane	ND	ug/m3	7.0	0.27	1.68		06/19/14 21:47	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	9.1	0.69	1.68		06/19/14 21:47	87-68-3	
n-Hexane	6.8	ug/m3	3.0	0.17	1.68		06/19/14 21:47	110-54-3	
2-Hexanone	ND	ug/m3	2.5	0.36	1.68		06/19/14 21:47	591-78-6	
Methylene Chloride	118	ug/m3	5.9	0.39	1.68		06/19/14 21:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	7.0	0.29	1.68		06/19/14 21:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.2	0.15	1.68		06/19/14 21:47	1634-04-4	
Naphthalene	34.3	ug/m3	4.5	0.43	1.68		06/19/14 21:47	91-20-3	
2-Propanol	ND	ug/m3	4.2	0.16	1.68		06/19/14 21:47	67-63-0	
Propylene	ND	ug/m3	1.3	0.42	3.85		06/21/14 17:33	115-07-1	
Styrene	5.7	ug/m3	3.6	0.23	1.68		06/19/14 21:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.2	0.39	1.68		06/19/14 21:47	79-34-5	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Sample: AS-3 **Lab ID: 10270745003** Collected: 06/13/14 15:10 Received: 06/13/14 16:19 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	2.3	0.32	1.68		06/19/14 21:47	127-18-4	
Tetrahydrofuran	ND	ug/m3	5.0	0.23	1.68		06/19/14 21:47	109-99-9	
Toluene	17.0	ug/m3	1.3	0.23	1.68		06/19/14 21:47	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.5	0.61	1.68		06/19/14 21:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.9	0.23	1.68		06/19/14 21:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.92	0.41	1.68		06/19/14 21:47	79-00-5	
Trichloroethene	3.1	ug/m3	0.92	0.30	1.68		06/19/14 21:47	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.9	0.23	1.68		06/19/14 21:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.7	0.27	1.68		06/19/14 21:47	76-13-1	
1,2,4-Trimethylbenzene	16.9	ug/m3	1.7	0.20	1.68		06/19/14 21:47	95-63-6	
1,3,5-Trimethylbenzene	4.6	ug/m3	1.7	0.35	1.68		06/19/14 21:47	108-67-8	
Vinyl acetate	ND	ug/m3	3.0	0.58	1.68		06/19/14 21:47	108-05-4	
Vinyl chloride	ND	ug/m3	0.87	0.16	1.68		06/19/14 21:47	75-01-4	
m&p-Xylene	9.8	ug/m3	3.0	0.24	1.68		06/19/14 21:47	179601-23-1	
o-Xylene	4.4	ug/m3	1.5	0.74	1.68		06/19/14 21:47	95-47-6	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Sample Project No.: 10270745

Sample: SV-4 **Lab ID: 10270745004** Collected: 06/13/14 13:00 Received: 06/13/14 16:19 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR Analytical Method: TO-15									
Acetone	48.2	ug/m3	4.3	2.2	1.8		06/19/14 22:10	67-64-1	
Benzene	8.7	ug/m3	1.2	0.21	1.8		06/19/14 22:10	71-43-2	
Benzyl chloride	ND	ug/m3	1.9	0.95	1.8		06/19/14 22:10	100-44-7	
Bromodichloromethane	ND	ug/m3	2.4	0.33	1.8		06/19/14 22:10	75-27-4	
Bromoform	ND	ug/m3	9.4	0.58	1.8		06/19/14 22:10	75-25-2	
Bromomethane	3.1	ug/m3	1.4	0.49	1.8		06/19/14 22:10	74-83-9	
1,3-Butadiene	ND	ug/m3	2.0	0.15	1.8		06/19/14 22:10	106-99-0	
2-Butanone (MEK)	15.4	ug/m3	6.6	0.49	1.8		06/19/14 22:10	78-93-3	
Carbon disulfide	42.2	ug/m3	1.1	0.13	1.8		06/19/14 22:10	75-15-0	
Carbon tetrachloride	ND	ug/m3	5.8	0.58	1.8		06/19/14 22:10	56-23-5	
Chlorobenzene	ND	ug/m3	1.7	0.19	1.8		06/19/14 22:10	108-90-7	
Chloroethane	ND	ug/m3	2.4	0.29	1.8		06/19/14 22:10	75-00-3	
Chloroform	2.4	ug/m3	1.8	0.32	1.8		06/19/14 22:10	67-66-3	
Chloromethane	4.7	ug/m3	0.76	0.35	1.8		06/19/14 22:10	74-87-3	
Cyclohexane	5.8	ug/m3	3.1	0.23	1.8		06/19/14 22:10	110-82-7	
Dibromochloromethane	ND	ug/m3	7.8	1.6	1.8		06/19/14 22:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	7.0	0.42	1.8		06/19/14 22:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.2	0.25	1.8		06/19/14 22:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.2	0.42	1.8		06/19/14 22:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.2	0.36	1.8		06/19/14 22:10	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1.8	0.20	1.8		06/19/14 22:10	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.5	0.25	1.8		06/19/14 22:10	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.5	0.21	1.8		06/19/14 22:10	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.5	0.19	1.8		06/19/14 22:10	75-35-4	
cis-1,2-Dichloroethene	123	ug/m3	1.5	0.35	1.8		06/19/14 22:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.5	0.29	1.8		06/19/14 22:10	156-60-5	
1,2-Dichloropropane	ND	ug/m3	4.2	0.27	1.8		06/19/14 22:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	4.2	0.24	1.8		06/19/14 22:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	4.2	0.27	1.8		06/19/14 22:10	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.6	0.45	1.8		06/19/14 22:10	76-14-2	
Ethanol	16.6	ug/m3	1.7	0.57	1.8		06/19/14 22:10	64-17-5	
Ethyl acetate	ND	ug/m3	3.3	0.23	1.8		06/19/14 22:10	141-78-6	
Ethylbenzene	8.0	ug/m3	1.6	0.32	1.8		06/19/14 22:10	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.8	0.31	1.8		06/19/14 22:10	622-96-8	
n-Heptane	12.4	ug/m3	7.5	0.29	1.8		06/19/14 22:10	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	9.8	0.74	1.8		06/19/14 22:10	87-68-3	
n-Hexane	15.7	ug/m3	3.2	0.18	1.8		06/19/14 22:10	110-54-3	
2-Hexanone	ND	ug/m3	2.7	0.38	1.8		06/19/14 22:10	591-78-6	
Methylene Chloride	ND	ug/m3	6.4	0.42	1.8		06/19/14 22:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	7.5	0.31	1.8		06/19/14 22:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.3	0.16	1.8		06/19/14 22:10	1634-04-4	
Naphthalene	10.3	ug/m3	4.8	0.46	1.8		06/19/14 22:10	91-20-3	
2-Propanol	10.6	ug/m3	4.5	0.17	1.8		06/19/14 22:10	67-63-0	
Propylene	ND	ug/m3	0.93	0.29	2.66		06/21/14 18:05	115-07-1	
Styrene	6.7	ug/m3	3.9	0.24	1.8		06/19/14 22:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.3	0.42	1.8		06/19/14 22:10	79-34-5	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Sample: SV-4 **Lab ID: 10270745004** Collected: 06/13/14 13:00 Received: 06/13/14 16:19 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR									
Analytical Method: TO-15									
Tetrachloroethene	53.0	ug/m3	2.5	0.34	1.8		06/19/14 22:10	127-18-4	
Tetrahydrofuran	ND	ug/m3	5.4	0.25	1.8		06/19/14 22:10	109-99-9	
Toluene	30.9	ug/m3	1.4	0.24	1.8		06/19/14 22:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.7	0.66	1.8		06/19/14 22:10	120-82-1	
1,1,1-Trichloroethane	3.2	ug/m3	2.0	0.25	1.8		06/19/14 22:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.99	0.44	1.8		06/19/14 22:10	79-00-5	
Trichloroethene	635	ug/m3	19.8	6.4	36		06/23/14 08:32	79-01-6	
Trichlorofluoromethane	2.2	ug/m3	2.1	0.25	1.8		06/19/14 22:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.9	0.29	1.8		06/19/14 22:10	76-13-1	
1,2,4-Trimethylbenzene	12.5	ug/m3	1.8	0.22	1.8		06/19/14 22:10	95-63-6	
1,3,5-Trimethylbenzene	8.9	ug/m3	1.8	0.37	1.8		06/19/14 22:10	108-67-8	
Vinyl acetate	ND	ug/m3	3.2	0.63	1.8		06/19/14 22:10	108-05-4	
Vinyl chloride	ND	ug/m3	0.94	0.17	1.8		06/19/14 22:10	75-01-4	
m&p-Xylene	36.1	ug/m3	3.2	0.25	1.8		06/19/14 22:10	179601-23-1	
o-Xylene	10.3	ug/m3	1.6	0.79	1.8		06/19/14 22:10	95-47-6	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Sample: SV-5 **Lab ID: 10270745005** Collected: 06/13/14 13:10 Received: 06/13/14 16:19 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR Analytical Method: TO-15									
Acetone	ND	ug/m3	1110	556	460.8		06/23/14 12:20	67-64-1	
Benzene	1490	ug/m3	299	54.4	460.8		06/23/14 12:20	71-43-2	
Benzyl chloride	ND	ug/m3	484	242	460.8		06/23/14 12:20	100-44-7	
Bromodichloromethane	ND	ug/m3	627	83.9	460.8		06/23/14 12:20	75-27-4	
Bromoform	ND	ug/m3	2420	149	460.8		06/23/14 12:20	75-25-2	
Bromomethane	ND	ug/m3	364	124	460.8		06/23/14 12:20	74-83-9	
1,3-Butadiene	ND	ug/m3	518	39.2	460.8		06/23/14 12:20	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1690	126	460.8		06/23/14 12:20	78-93-3	
Carbon disulfide	396	ug/m3	290	33.2	460.8		06/23/14 12:20	75-15-0	
Carbon tetrachloride	ND	ug/m3	1470	147	460.8		06/23/14 12:20	56-23-5	
Chlorobenzene	ND	ug/m3	433	48.8	460.8		06/23/14 12:20	108-90-7	
Chloroethane	ND	ug/m3	618	74.2	460.8		06/23/14 12:20	75-00-3	
Chloroform	ND	ug/m3	456	82.5	460.8		06/23/14 12:20	67-66-3	
Chloromethane	ND	ug/m3	194	88.5	460.8		06/23/14 12:20	74-87-3	
Cyclohexane	5000	ug/m3	806	58.1	460.8		06/23/14 12:20	110-82-7	
Dibromochloromethane	ND	ug/m3	1990	399	460.8		06/23/14 12:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1800	108	460.8		06/23/14 12:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	562	65.0	460.8		06/23/14 12:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	562	107	460.8		06/23/14 12:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	562	91.2	460.8		06/23/14 12:20	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	465	50.2	460.8		06/23/14 12:20	75-71-8	
1,1-Dichloroethane	489	ug/m3	378	64.5	460.8		06/23/14 12:20	75-34-3	
1,2-Dichloroethane	ND	ug/m3	379	54.8	460.8		06/23/14 12:20	107-06-2	
1,1-Dichloroethene	ND	ug/m3	373	47.5	460.8		06/23/14 12:20	75-35-4	
cis-1,2-Dichloroethene	470	ug/m3	373	90.3	460.8		06/23/14 12:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	373	75.1	460.8		06/23/14 12:20	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1080	70.0	460.8		06/23/14 12:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1060	62.7	460.8		06/23/14 12:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1060	69.6	460.8		06/23/14 12:20	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	654	115	460.8		06/23/14 12:20	76-14-2	
Ethanol	ND	ug/m3	442	145	460.8		06/23/14 12:20	64-17-5	
Ethyl acetate	ND	ug/m3	844	58.1	460.8		06/23/14 12:20	141-78-6	
Ethylbenzene	1400	ug/m3	406	82.5	460.8		06/23/14 12:20	100-41-4	
4-Ethyltoluene	ND	ug/m3	461	80.2	460.8		06/23/14 12:20	622-96-8	
n-Heptane	13500	ug/m3	1920	74.6	460.8		06/23/14 12:20	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	2500	189	460.8		06/23/14 12:20	87-68-3	
n-Hexane	1180	ug/m3	825	46.5	460.8		06/23/14 12:20	110-54-3	
2-Hexanone	ND	ug/m3	691	98.2	460.8		06/23/14 12:20	591-78-6	
Methylene Chloride	ND	ug/m3	1630	106	460.8		06/23/14 12:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	1920	78.8	460.8		06/23/14 12:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	336	41.0	460.8		06/23/14 12:20	1634-04-4	
Naphthalene	ND	ug/m3	1230	119	460.8		06/23/14 12:20	91-20-3	
2-Propanol	ND	ug/m3	1150	42.9	460.8		06/23/14 12:20	67-63-0	
Propylene	ND	ug/m3	403	50.7	460.8		06/23/14 12:20	115-07-1	
Styrene	ND	ug/m3	998	62.2	460.8		06/23/14 12:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	322	107	460.8		06/23/14 12:20	79-34-5	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Sample: SV-5		Lab ID: 10270745005		Collected: 06/13/14 13:10		Received: 06/13/14 16:19		Matrix: Air	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	635	86.6	460.8		06/23/14 12:20	127-18-4	
Tetrahydrofuran	ND	ug/m3	1380	64.1	460.8		06/23/14 12:20	109-99-9	
Toluene	9300	ug/m3	355	62.2	460.8		06/23/14 12:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	696	168	460.8		06/23/14 12:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	511	64.1	460.8		06/23/14 12:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	253	112	460.8		06/23/14 12:20	79-00-5	
Trichloroethene	321	ug/m3	253	82.0	460.8		06/23/14 12:20	79-01-6	
Trichlorofluoromethane	ND	ug/m3	525	63.6	460.8		06/23/14 12:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	737	73.7	460.8		06/23/14 12:20	76-13-1	
1,2,4-Trimethylbenzene	1590	ug/m3	460	56.2	460.8		06/23/14 12:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	460	95.4	460.8		06/23/14 12:20	108-67-8	
Vinyl acetate	ND	ug/m3	825	160	460.8		06/23/14 12:20	108-05-4	
Vinyl chloride	4510	ug/m3	240	42.9	460.8		06/23/14 12:20	75-01-4	
m&p-Xylene	3690	ug/m3	811	64.5	460.8		06/23/14 12:20	179601-23-1	
o-Xylene	1370	ug/m3	406	203	460.8		06/23/14 12:20	95-47-6	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Sample Project No.: 10270745

Sample: SV-6 **Lab ID: 10270745006** Collected: 06/13/14 12:50 Received: 06/13/14 16:19 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR Analytical Method: TO-15									
Acetone	ND	ug/m3	43.5	21.7	18		06/23/14 09:13	67-64-1	
Benzene	55.4	ug/m3	11.7	2.1	18		06/23/14 09:13	71-43-2	
Benzyl chloride	ND	ug/m3	18.9	9.5	18		06/23/14 09:13	100-44-7	
Bromodichloromethane	ND	ug/m3	24.5	3.3	18		06/23/14 09:13	75-27-4	
Bromoform	ND	ug/m3	94.5	5.8	18		06/23/14 09:13	75-25-2	
Bromomethane	ND	ug/m3	14.2	4.9	18		06/23/14 09:13	74-83-9	
1,3-Butadiene	ND	ug/m3	20.2	1.5	18		06/23/14 09:13	106-99-0	
2-Butanone (MEK)	ND	ug/m3	65.9	4.9	18		06/23/14 09:13	78-93-3	
Carbon disulfide	111	ug/m3	11.3	1.3	18		06/23/14 09:13	75-15-0	
Carbon tetrachloride	ND	ug/m3	57.5	5.8	18		06/23/14 09:13	56-23-5	
Chlorobenzene	406	ug/m3	16.9	1.9	18		06/23/14 09:13	108-90-7	
Chloroethane	ND	ug/m3	24.1	2.9	18		06/23/14 09:13	75-00-3	
Chloroform	ND	ug/m3	17.8	3.2	18		06/23/14 09:13	67-66-3	
Chloromethane	ND	ug/m3	7.6	3.5	18		06/23/14 09:13	74-87-3	
Cyclohexane	ND	ug/m3	31.5	2.3	18		06/23/14 09:13	110-82-7	
Dibromochloromethane	ND	ug/m3	77.9	15.6	18		06/23/14 09:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	70.3	4.2	18		06/23/14 09:13	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	22.0	2.5	18		06/23/14 09:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	22.0	4.2	18		06/23/14 09:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	22.0	3.6	18		06/23/14 09:13	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	18.2	2.0	18		06/23/14 09:13	75-71-8	
1,1-Dichloroethane	ND	ug/m3	14.8	2.5	18		06/23/14 09:13	75-34-3	
1,2-Dichloroethane	ND	ug/m3	14.8	2.1	18		06/23/14 09:13	107-06-2	
1,1-Dichloroethene	ND	ug/m3	14.6	1.9	18		06/23/14 09:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	14.6	3.5	18		06/23/14 09:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	14.6	2.9	18		06/23/14 09:13	156-60-5	
1,2-Dichloropropane	ND	ug/m3	42.3	2.7	18		06/23/14 09:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	41.5	2.4	18		06/23/14 09:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	41.5	2.7	18		06/23/14 09:13	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	25.6	4.5	18		06/23/14 09:13	76-14-2	
Ethanol	62.0	ug/m3	17.3	5.7	18		06/23/14 09:13	64-17-5	SS
Ethyl acetate	ND	ug/m3	33.0	2.3	18		06/23/14 09:13	141-78-6	
Ethylbenzene	32.6	ug/m3	15.8	3.2	18		06/23/14 09:13	100-41-4	
4-Ethyltoluene	ND	ug/m3	18.0	3.1	18		06/23/14 09:13	622-96-8	
n-Heptane	ND	ug/m3	75.0	2.9	18		06/23/14 09:13	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	97.6	7.4	18		06/23/14 09:13	87-68-3	
n-Hexane	42.0	ug/m3	32.2	1.8	18		06/23/14 09:13	110-54-3	
2-Hexanone	ND	ug/m3	27.0	3.8	18		06/23/14 09:13	591-78-6	
Methylene Chloride	ND	ug/m3	63.5	4.2	18		06/23/14 09:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	75.0	3.1	18		06/23/14 09:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	13.1	1.6	18		06/23/14 09:13	1634-04-4	
Naphthalene	ND	ug/m3	47.9	4.6	18		06/23/14 09:13	91-20-3	
2-Propanol	715	ug/m3	45.0	1.7	18		06/23/14 09:13	67-63-0	
Propylene	295	ug/m3	15.8	2.0	18		06/23/14 09:13	115-07-1	
Styrene	ND	ug/m3	39.0	2.4	18		06/23/14 09:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	12.6	4.2	18		06/23/14 09:13	79-34-5	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Sample: SV-6 **Lab ID: 10270745006** Collected: 06/13/14 12:50 Received: 06/13/14 16:19 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR									
Analytical Method: TO-15									
Tetrachloroethene	330	ug/m3	24.8	3.4	18		06/23/14 09:13	127-18-4	
Tetrahydrofuran	ND	ug/m3	54.0	2.5	18		06/23/14 09:13	109-99-9	
Toluene	112	ug/m3	13.9	2.4	18		06/23/14 09:13	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	27.2	6.6	18		06/23/14 09:13	120-82-1	
1,1,1-Trichloroethane	29.1	ug/m3	20.0	2.5	18		06/23/14 09:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	9.9	4.4	18		06/23/14 09:13	79-00-5	
Trichloroethene	1740	ug/m3	9.9	3.2	18		06/23/14 09:13	79-01-6	
Trichlorofluoromethane	ND	ug/m3	20.5	2.5	18		06/23/14 09:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	28.8	2.9	18		06/23/14 09:13	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	18.0	2.2	18		06/23/14 09:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	18.0	3.7	18		06/23/14 09:13	108-67-8	
Vinyl acetate	ND	ug/m3	32.2	6.3	18		06/23/14 09:13	108-05-4	
Vinyl chloride	ND	ug/m3	9.4	1.7	18		06/23/14 09:13	75-01-4	
m&p-Xylene	38.8	ug/m3	31.7	2.5	18		06/23/14 09:13	179601-23-1	
o-Xylene	19.9	ug/m3	15.8	7.9	18		06/23/14 09:13	95-47-6	

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Sample Project No.: 10270745

Sample: SV-7 **Lab ID: 10270745007** Collected: 06/13/14 12:30 Received: 06/13/14 16:19 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR Analytical Method: TO-15									
Acetone	ND	ug/m3	43.5	21.7	18		06/23/14 05:01	67-64-1	
Benzene	12.7	ug/m3	11.7	2.1	18		06/23/14 05:01	71-43-2	
Benzyl chloride	ND	ug/m3	18.9	9.5	18		06/23/14 05:01	100-44-7	
Bromodichloromethane	ND	ug/m3	24.5	3.3	18		06/23/14 05:01	75-27-4	
Bromoform	ND	ug/m3	94.5	5.8	18		06/23/14 05:01	75-25-2	
Bromomethane	ND	ug/m3	14.2	4.9	18		06/23/14 05:01	74-83-9	
1,3-Butadiene	ND	ug/m3	20.2	1.5	18		06/23/14 05:01	106-99-0	
2-Butanone (MEK)	ND	ug/m3	65.9	4.9	18		06/23/14 05:01	78-93-3	
Carbon disulfide	34.5	ug/m3	11.3	1.3	18		06/23/14 05:01	75-15-0	
Carbon tetrachloride	ND	ug/m3	57.5	5.8	18		06/23/14 05:01	56-23-5	
Chlorobenzene	ND	ug/m3	16.9	1.9	18		06/23/14 05:01	108-90-7	
Chloroethane	ND	ug/m3	24.1	2.9	18		06/23/14 05:01	75-00-3	
Chloroform	ND	ug/m3	17.8	3.2	18		06/23/14 05:01	67-66-3	
Chloromethane	ND	ug/m3	7.6	3.5	18		06/23/14 05:01	74-87-3	
Cyclohexane	ND	ug/m3	31.5	2.3	18		06/23/14 05:01	110-82-7	
Dibromochloromethane	ND	ug/m3	77.9	15.6	18		06/23/14 05:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	70.3	4.2	18		06/23/14 05:01	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	22.0	2.5	18		06/23/14 05:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	22.0	4.2	18		06/23/14 05:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	22.0	3.6	18		06/23/14 05:01	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	18.2	2.0	18		06/23/14 05:01	75-71-8	
1,1-Dichloroethane	ND	ug/m3	14.8	2.5	18		06/23/14 05:01	75-34-3	
1,2-Dichloroethane	ND	ug/m3	14.8	2.1	18		06/23/14 05:01	107-06-2	
1,1-Dichloroethene	ND	ug/m3	14.6	1.9	18		06/23/14 05:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	14.6	3.5	18		06/23/14 05:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	14.6	2.9	18		06/23/14 05:01	156-60-5	
1,2-Dichloropropane	ND	ug/m3	42.3	2.7	18		06/23/14 05:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	41.5	2.4	18		06/23/14 05:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	41.5	2.7	18		06/23/14 05:01	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	25.6	4.5	18		06/23/14 05:01	76-14-2	
Ethanol	64.0	ug/m3	17.3	5.7	18		06/23/14 05:01	64-17-5	SS
Ethyl acetate	ND	ug/m3	33.0	2.3	18		06/23/14 05:01	141-78-6	
Ethylbenzene	20.0	ug/m3	15.8	3.2	18		06/23/14 05:01	100-41-4	
4-Ethyltoluene	27.8	ug/m3	18.0	3.1	18		06/23/14 05:01	622-96-8	
n-Heptane	ND	ug/m3	75.0	2.9	18		06/23/14 05:01	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	97.6	7.4	18		06/23/14 05:01	87-68-3	
n-Hexane	ND	ug/m3	32.2	1.8	18		06/23/14 05:01	110-54-3	
2-Hexanone	ND	ug/m3	27.0	3.8	18		06/23/14 05:01	591-78-6	
Methylene Chloride	73.8	ug/m3	63.5	4.2	18		06/23/14 05:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	75.0	3.1	18		06/23/14 05:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	13.1	1.6	18		06/23/14 05:01	1634-04-4	
Naphthalene	50.7	ug/m3	47.9	4.6	18		06/23/14 05:01	91-20-3	
2-Propanol	ND	ug/m3	45.0	1.7	18		06/23/14 05:01	67-63-0	
Propylene	172	ug/m3	15.8	2.0	18		06/23/14 05:01	115-07-1	
Styrene	ND	ug/m3	39.0	2.4	18		06/23/14 05:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	12.6	4.2	18		06/23/14 05:01	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Sample: SV-7 **Lab ID: 10270745007** Collected: 06/13/14 12:30 Received: 06/13/14 16:19 Matrix: Air

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
TO15 MSV AIR									
Analytical Method: TO-15									
Tetrachloroethene	719	ug/m3	24.8	3.4	18		06/23/14 05:01	127-18-4	
Tetrahydrofuran	ND	ug/m3	54.0	2.5	18		06/23/14 05:01	109-99-9	
Toluene	35.9	ug/m3	13.9	2.4	18		06/23/14 05:01	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	27.2	6.6	18		06/23/14 05:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	20.0	2.5	18		06/23/14 05:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	9.9	4.4	18		06/23/14 05:01	79-00-5	
Trichloroethene	243	ug/m3	9.9	3.2	18		06/23/14 05:01	79-01-6	
Trichlorofluoromethane	ND	ug/m3	20.5	2.5	18		06/23/14 05:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	28.8	2.9	18		06/23/14 05:01	76-13-1	
1,2,4-Trimethylbenzene	25.5	ug/m3	18.0	2.2	18		06/23/14 05:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	18.0	3.7	18		06/23/14 05:01	108-67-8	
Vinyl acetate	ND	ug/m3	32.2	6.3	18		06/23/14 05:01	108-05-4	
Vinyl chloride	ND	ug/m3	9.4	1.7	18		06/23/14 05:01	75-01-4	
m&p-Xylene	36.4	ug/m3	31.7	2.5	18		06/23/14 05:01	179601-23-1	
o-Xylene	18.2	ug/m3	15.8	7.9	18		06/23/14 05:01	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

QC Batch: AIR/20605 Analysis Method: TO-15
 QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
 Associated Lab Samples: 10270745005, 10270745006, 10270745007

METHOD BLANK: 1714382 Matrix: Air
 Associated Lab Samples: 10270745005, 10270745006, 10270745007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/22/14 16:05	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	06/22/14 16:05	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/22/14 16:05	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	06/22/14 16:05	
1,1-Dichloroethane	ug/m3	ND	0.82	06/22/14 16:05	
1,1-Dichloroethene	ug/m3	ND	0.81	06/22/14 16:05	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	06/22/14 16:05	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	06/22/14 16:05	
1,2-Dibromoethane (EDB)	ug/m3	ND	3.9	06/22/14 16:05	
1,2-Dichlorobenzene	ug/m3	ND	1.2	06/22/14 16:05	
1,2-Dichloroethane	ug/m3	ND	0.82	06/22/14 16:05	
1,2-Dichloropropane	ug/m3	ND	2.3	06/22/14 16:05	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	06/22/14 16:05	
1,3-Butadiene	ug/m3	ND	1.1	06/22/14 16:05	
1,3-Dichlorobenzene	ug/m3	ND	1.2	06/22/14 16:05	
1,4-Dichlorobenzene	ug/m3	ND	1.2	06/22/14 16:05	
2-Butanone (MEK)	ug/m3	ND	3.7	06/22/14 16:05	
2-Hexanone	ug/m3	ND	1.5	06/22/14 16:05	
2-Propanol	ug/m3	ND	2.5	06/22/14 16:05	
4-Ethyltoluene	ug/m3	ND	1.0	06/22/14 16:05	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	06/22/14 16:05	
Acetone	ug/m3	ND	2.4	06/22/14 16:05	
Benzene	ug/m3	ND	0.65	06/22/14 16:05	
Benzyl chloride	ug/m3	ND	1.0	06/22/14 16:05	
Bromodichloromethane	ug/m3	ND	1.4	06/22/14 16:05	
Bromoform	ug/m3	ND	5.2	06/22/14 16:05	
Bromomethane	ug/m3	ND	0.79	06/22/14 16:05	
Carbon disulfide	ug/m3	ND	0.63	06/22/14 16:05	
Carbon tetrachloride	ug/m3	ND	3.2	06/22/14 16:05	
Chlorobenzene	ug/m3	ND	0.94	06/22/14 16:05	
Chloroethane	ug/m3	ND	1.3	06/22/14 16:05	
Chloroform	ug/m3	ND	0.99	06/22/14 16:05	
Chloromethane	ug/m3	ND	0.42	06/22/14 16:05	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/22/14 16:05	
cis-1,3-Dichloropropene	ug/m3	ND	2.3	06/22/14 16:05	
Cyclohexane	ug/m3	ND	1.7	06/22/14 16:05	
Dibromochloromethane	ug/m3	ND	4.3	06/22/14 16:05	
Dichlorodifluoromethane	ug/m3	ND	1.0	06/22/14 16:05	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	06/22/14 16:05	
Ethanol	ug/m3	ND	0.96	06/22/14 16:05	
Ethyl acetate	ug/m3	ND	1.8	06/22/14 16:05	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

METHOD BLANK: 1714382

Matrix: Air

Associated Lab Samples: 10270745005, 10270745006, 10270745007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	06/22/14 16:05	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	06/22/14 16:05	
m&p-Xylene	ug/m3	ND	1.8	06/22/14 16:05	
Methyl-tert-butyl ether	ug/m3	ND	0.73	06/22/14 16:05	
Methylene Chloride	ug/m3	ND	3.5	06/22/14 16:05	
n-Heptane	ug/m3	ND	4.2	06/22/14 16:05	
n-Hexane	ug/m3	ND	1.8	06/22/14 16:05	
Naphthalene	ug/m3	ND	2.7	06/22/14 16:05	
o-Xylene	ug/m3	ND	0.88	06/22/14 16:05	
Propylene	ug/m3	ND	0.88	06/22/14 16:05	
Styrene	ug/m3	ND	2.2	06/22/14 16:05	
Tetrachloroethene	ug/m3	ND	1.4	06/22/14 16:05	
Tetrahydrofuran	ug/m3	ND	3.0	06/22/14 16:05	
Toluene	ug/m3	ND	0.77	06/22/14 16:05	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/22/14 16:05	
trans-1,3-Dichloropropene	ug/m3	ND	2.3	06/22/14 16:05	
Trichloroethene	ug/m3	ND	0.55	06/22/14 16:05	
Trichlorofluoromethane	ug/m3	ND	1.1	06/22/14 16:05	
Vinyl acetate	ug/m3	ND	1.8	06/22/14 16:05	
Vinyl chloride	ug/m3	ND	0.52	06/22/14 16:05	

LABORATORY CONTROL SAMPLE: 1714383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	56.9	103	72-128	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	78.3	112	72-136	
1,1,2-Trichloroethane	ug/m3	55.5	57.4	104	72-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	75.3	97	68-126	
1,1-Dichloroethane	ug/m3	41.2	40.3	98	68-128	
1,1-Dichloroethene	ug/m3	40.3	38.9	96	68-130	
1,2,4-Trichlorobenzene	ug/m3	75.5	79.1	105	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	53.1	106	71-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	95.0	122	73-136	
1,2-Dichlorobenzene	ug/m3	61.2	67.1	110	63-150	
1,2-Dichloroethane	ug/m3	41.2	40.4	98	71-132	
1,2-Dichloropropane	ug/m3	47	54.8	117	72-130	
1,3,5-Trimethylbenzene	ug/m3	50	53.5	107	73-136	
1,3-Butadiene	ug/m3	22.5	23.6	105	72-130	
1,3-Dichlorobenzene	ug/m3	61.2	64.9	106	69-142	
1,4-Dichlorobenzene	ug/m3	61.2	71.3	117	65-142	
2-Butanone (MEK)	ug/m3	30	30.3	101	71-135	
2-Hexanone	ug/m3	41.7	40.8	98	75-133	
2-Propanol	ug/m3	25	26.1	104	68-135	
4-Ethyltoluene	ug/m3	50	53.5	107	73-134	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

LABORATORY CONTROL SAMPLE: 1714383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	43.5	105	72-137	
Acetone	ug/m3	24.2	19.7	82	68-136	
Benzene	ug/m3	32.5	38.0	117	69-134	
Benzyl chloride	ug/m3	52.5	53.9	103	71-136	
Bromodichloromethane	ug/m3	68.2	72.7	107	74-129	
Bromoform	ug/m3	105	105	100	69-138	
Bromomethane	ug/m3	39.5	42.1	107	68-127	
Carbon disulfide	ug/m3	31.7	30.0	95	68-130	
Carbon tetrachloride	ug/m3	64	64.4	101	66-134	
Chlorobenzene	ug/m3	46.8	54.4	116	72-137	
Chloroethane	ug/m3	26.8	23.3	87	69-128	
Chloroform	ug/m3	49.7	45.2	91	72-127	
Chloromethane	ug/m3	21	19.4	92	69-125	
cis-1,2-Dichloroethene	ug/m3	40.3	43.0	107	71-135	
cis-1,3-Dichloropropene	ug/m3	46.2	48.4	105	74-134	
Cyclohexane	ug/m3	35	35.3	101	72-130	
Dibromochloromethane	ug/m3	86.6	106	123	73-133	
Dichlorodifluoromethane	ug/m3	50.3	47.7	95	69-125	
Dichlorotetrafluoroethane	ug/m3	71.1	67.5	95	68-128	
Ethanol	ug/m3	19.2	19.1	100	70-134	SS
Ethyl acetate	ug/m3	36.6	36.9	101	71-134	
Ethylbenzene	ug/m3	44.2	45.8	104	73-139	
Hexachloro-1,3-butadiene	ug/m3	108	131	120	30-150	
m&p-Xylene	ug/m3	44.2	45.0	102	73-139	
Methyl-tert-butyl ether	ug/m3	36.7	39.2	107	72-132	
Methylene Chloride	ug/m3	35.3	28.6	81	64-134	
n-Heptane	ug/m3	41.7	43.6	105	70-130	
n-Hexane	ug/m3	35.8	35.4	99	69-128	
Naphthalene	ug/m3	53.3	57.6	108	61-150	
o-Xylene	ug/m3	44.2	46.1	104	71-138	
Propylene	ug/m3	17.5	18.2	104	69-133	
Styrene	ug/m3	43.3	44.4	103	74-136	
Tetrachloroethene	ug/m3	69	87.0	126	69-136	
Tetrahydrofuran	ug/m3	30	32.5	108	73-131	
Toluene	ug/m3	38.3	41.4	108	67-133	
trans-1,2-Dichloroethene	ug/m3	40.3	42.1	104	70-131	
trans-1,3-Dichloropropene	ug/m3	46.2	46.6	101	72-135	
Trichloroethene	ug/m3	54.6	67.6	124	70-135	
Trichlorofluoromethane	ug/m3	57.1	49.9	87	67-125	
Vinyl acetate	ug/m3	35.8	35.3	99	72-133	
Vinyl chloride	ug/m3	26	29.0	112	69-132	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

QC Batch: AIR/20607 Analysis Method: TO-15
 QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
 Associated Lab Samples: 10270745001, 10270745002, 10270745003, 10270745004

METHOD BLANK: 1714602 Matrix: Air
 Associated Lab Samples: 10270745001, 10270745002, 10270745003, 10270745004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/19/14 19:33	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	06/19/14 19:33	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/19/14 19:33	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	06/19/14 19:33	
1,1-Dichloroethane	ug/m3	ND	0.82	06/19/14 19:33	
1,1-Dichloroethene	ug/m3	ND	0.81	06/19/14 19:33	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	06/19/14 19:33	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	06/19/14 19:33	
1,2-Dibromoethane (EDB)	ug/m3	ND	3.9	06/19/14 19:33	
1,2-Dichlorobenzene	ug/m3	ND	1.2	06/19/14 19:33	
1,2-Dichloroethane	ug/m3	ND	0.82	06/19/14 19:33	
1,2-Dichloropropane	ug/m3	ND	2.3	06/19/14 19:33	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	06/19/14 19:33	
1,3-Butadiene	ug/m3	ND	1.1	06/19/14 19:33	
1,3-Dichlorobenzene	ug/m3	ND	1.2	06/19/14 19:33	
1,4-Dichlorobenzene	ug/m3	ND	1.2	06/19/14 19:33	
2-Butanone (MEK)	ug/m3	ND	3.7	06/19/14 19:33	
2-Hexanone	ug/m3	ND	1.5	06/19/14 19:33	
2-Propanol	ug/m3	ND	2.5	06/19/14 19:33	
4-Ethyltoluene	ug/m3	ND	1.0	06/19/14 19:33	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	06/19/14 19:33	
Acetone	ug/m3	ND	2.4	06/19/14 19:33	
Benzene	ug/m3	ND	0.65	06/19/14 19:33	
Benzyl chloride	ug/m3	ND	1.0	06/19/14 19:33	
Bromodichloromethane	ug/m3	ND	1.4	06/19/14 19:33	
Bromoform	ug/m3	ND	5.2	06/19/14 19:33	
Bromomethane	ug/m3	ND	0.79	06/19/14 19:33	
Carbon disulfide	ug/m3	ND	0.63	06/19/14 19:33	
Carbon tetrachloride	ug/m3	ND	3.2	06/19/14 19:33	
Chlorobenzene	ug/m3	ND	0.94	06/19/14 19:33	
Chloroethane	ug/m3	ND	1.3	06/19/14 19:33	
Chloroform	ug/m3	ND	0.99	06/19/14 19:33	
Chloromethane	ug/m3	ND	0.42	06/19/14 19:33	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/19/14 19:33	
cis-1,3-Dichloropropene	ug/m3	ND	2.3	06/19/14 19:33	
Cyclohexane	ug/m3	ND	1.7	06/19/14 19:33	
Dibromochloromethane	ug/m3	ND	4.3	06/19/14 19:33	
Dichlorodifluoromethane	ug/m3	ND	1.0	06/19/14 19:33	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	06/19/14 19:33	
Ethanol	ug/m3	ND	0.96	06/19/14 19:33	
Ethyl acetate	ug/m3	ND	1.8	06/19/14 19:33	

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

METHOD BLANK: 1714602

Matrix: Air

Associated Lab Samples: 10270745001, 10270745002, 10270745003, 10270745004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	06/19/14 19:33	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	06/19/14 19:33	
m&p-Xylene	ug/m3	ND	1.8	06/19/14 19:33	
Methyl-tert-butyl ether	ug/m3	ND	0.73	06/19/14 19:33	
Methylene Chloride	ug/m3	ND	3.5	06/19/14 19:33	
n-Heptane	ug/m3	ND	4.2	06/19/14 19:33	
n-Hexane	ug/m3	ND	1.8	06/19/14 19:33	
Naphthalene	ug/m3	ND	2.7	06/19/14 19:33	
o-Xylene	ug/m3	ND	0.88	06/19/14 19:33	
Propylene	ug/m3	ND	0.35	06/21/14 15:15	
Styrene	ug/m3	ND	2.2	06/19/14 19:33	
Tetrachloroethene	ug/m3	ND	1.4	06/19/14 19:33	
Tetrahydrofuran	ug/m3	ND	3.0	06/19/14 19:33	
Toluene	ug/m3	ND	0.77	06/19/14 19:33	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/19/14 19:33	
trans-1,3-Dichloropropene	ug/m3	ND	2.3	06/19/14 19:33	
Trichloroethene	ug/m3	ND	0.55	06/19/14 19:33	
Trichlorofluoromethane	ug/m3	ND	1.1	06/19/14 19:33	
Vinyl acetate	ug/m3	ND	1.8	06/19/14 19:33	
Vinyl chloride	ug/m3	ND	0.52	06/19/14 19:33	

LABORATORY CONTROL SAMPLE: 1714603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.9	99	72-128	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	80.0	115	72-136	
1,1,2-Trichloroethane	ug/m3	55.5	55.8	101	72-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	73.7	95	68-126	
1,1-Dichloroethane	ug/m3	41.2	41.2	100	68-128	
1,1-Dichloroethene	ug/m3	40.3	38.1	94	68-130	
1,2,4-Trichlorobenzene	ug/m3	75.5	70.1	93	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	47.2	94	71-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	72.0	92	73-136	
1,2-Dichlorobenzene	ug/m3	61.2	58.5	96	63-150	
1,2-Dichloroethane	ug/m3	41.2	46.3	112	71-132	
1,2-Dichloropropane	ug/m3	47	43.9	93	72-130	
1,3,5-Trimethylbenzene	ug/m3	50	45.9	92	73-136	
1,3-Butadiene	ug/m3	22.5	21.7	97	72-130	
1,3-Dichlorobenzene	ug/m3	61.2	56.2	92	69-142	
1,4-Dichlorobenzene	ug/m3	61.2	57.0	93	65-142	
2-Butanone (MEK)	ug/m3	30	27.5	92	71-135	
2-Hexanone	ug/m3	41.7	38.9	93	75-133	
2-Propanol	ug/m3	25	25.8	103	68-135	
4-Ethyltoluene	ug/m3	50	46.9	94	73-134	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

LABORATORY CONTROL SAMPLE: 1714603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	39.4	95	72-137	
Acetone	ug/m3	24.2	23.0	95	68-136	
Benzene	ug/m3	32.5	32.1	99	69-134	
Benzyl chloride	ug/m3	52.5	48.6	93	71-136	
Bromodichloromethane	ug/m3	68.2	66.7	98	74-129	
Bromoform	ug/m3	105	96.0	91	69-138	
Bromomethane	ug/m3	39.5	40.1	102	68-127	
Carbon disulfide	ug/m3	31.7	31.2	98	68-130	
Carbon tetrachloride	ug/m3	64	60.3	94	66-134	
Chlorobenzene	ug/m3	46.8	47.8	102	72-137	
Chloroethane	ug/m3	26.8	26.7	100	69-128	
Chloroform	ug/m3	49.7	48.3	97	72-127	
Chloromethane	ug/m3	21	20.8	99	69-125	
cis-1,2-Dichloroethene	ug/m3	40.3	41.5	103	71-135	
cis-1,3-Dichloropropene	ug/m3	46.2	42.8	93	74-134	
Cyclohexane	ug/m3	35	32.2	92	72-130	
Dibromochloromethane	ug/m3	86.6	79.4	92	73-133	
Dichlorodifluoromethane	ug/m3	50.3	49.4	98	69-125	
Dichlorotetrafluoroethane	ug/m3	71.1	68.4	96	68-128	
Ethanol	ug/m3	19.2	19.9	104	70-134	
Ethyl acetate	ug/m3	36.6	33.7	92	71-134	
Ethylbenzene	ug/m3	44.2	41.0	93	73-139	
Hexachloro-1,3-butadiene	ug/m3	108	106	98	30-150	
m&p-Xylene	ug/m3	44.2	39.9	90	73-139	
Methyl-tert-butyl ether	ug/m3	36.7	41.0	112	72-132	
Methylene Chloride	ug/m3	35.3	33.7	95	64-134	
n-Heptane	ug/m3	41.7	38.4	92	70-130	
n-Hexane	ug/m3	35.8	32.1	90	69-128	
Naphthalene	ug/m3	53.3	49.6	93	61-150	
o-Xylene	ug/m3	44.2	43.3	98	71-138	
Propylene	ug/m3	17.5	13.0	74	69-133	
Styrene	ug/m3	43.3	39.6	91	74-136	
Tetrachloroethene	ug/m3	69	72.4	105	69-136	
Tetrahydrofuran	ug/m3	30	28.6	95	73-131	
Toluene	ug/m3	38.3	32.1	84	67-133	
trans-1,2-Dichloroethene	ug/m3	40.3	39.6	98	70-131	
trans-1,3-Dichloropropene	ug/m3	46.2	41.9	91	72-135	
Trichloroethene	ug/m3	54.6	54.4	99	70-135	
Trichlorofluoromethane	ug/m3	57.1	52.3	91	67-125	
Vinyl acetate	ug/m3	35.8	34.0	95	72-133	
Vinyl chloride	ug/m3	26	26.5	102	69-132	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2013-P0183-0061 Fmr. Gross Giv
Pace Project No.: 10270745

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10270745001

[1] The Total Hydrocarbon (THC) pattern occurred in the first half of the chromatogram (before toluene).

Sample: 10270745002

[1] The Total Hydrocarbon (THC) pattern occurred in the second half of the chromatogram (after toluene).

Sample: 10270745003

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10270745004

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10270745005

[1] This result is reported from a serial dilution.

[2] The Total Hydrocarbon (THC) pattern occurred in the second half of the chromatogram (after toluene).

Sample: 10270745006

[1] The Total Hydrocarbon (THC) pattern occurred in the first half of the chromatogram (before toluene).

Sample: 10270745007

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2013-P0183-0061 Fmr. Gross Giv

Pace Project No.: 10270745

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10270745001	AS-1	TO-15	AIR/20607		
10270745002	AS-2	TO-15	AIR/20607		
10270745003	AS-3	TO-15	AIR/20607		
10270745004	SV-4	TO-15	AIR/20607		
10270745005	SV-5	TO-15	AIR/20605		
10270745006	SV-6	TO-15	AIR/20605		
10270745007	SV-7	TO-15	AIR/20605		

REPORT OF LABORATORY ANALYSIS

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10270745



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: <u>The Jewel in Group</u> Address: <u>10725 Cedar Lake Circle</u> <u>Eden Prairie, MN 55344</u> Email To: _____ Phone: <u>952.390.8888</u> Fax: _____ Requested Due Date/TAT: <u>Normal</u>		Section B Required Project Information: Invoice Information: Attention: <u>Same</u> Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep: <u>Kaber Xiang</u> Pace Profile #: _____		Section C Report To: <u>Kevin Peterson</u> Copy To: _____ Purchase Order No.: _____ Project Name: <u>Mr. Greg Grier</u> Project Number: <u>203 - PA87-130</u>		Page: <u>18608</u> of _____		
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		COLLECTED MEDIA CODE: _____ PID Reading (Client only): _____ MEDIA CODE: _____ PID Reading (Client only): _____		Flow Control Number Summa Can Number: _____ Canister Pressure (Initial Field - psig): _____ Canister Pressure (Final Field - psig): _____		Method: PM10 _____ 3C- Fixed Gas (%) _____ TO-3 (Methane) _____ TO-4 (PCBs) _____ TO-13 (PAH) _____ TO-14 _____ TO-15 _____ TO-15 Short List _____ Pace Lab ID: _____		
ITEM # 1 2 3 4 5 6 7 8 9 10 11 12	<u>AS-1</u> <u>AS-2</u> <u>AS-3</u> <u>SV-4</u> <u>SV-5</u> <u>SV-6</u> <u>SV-7</u>	DATE <u>6/12/14</u> <u>6/13/14</u> <u>6/13/14</u> <u>6/13/14</u> <u>6/13/14</u> <u>6/13/14</u>	TIME <u>1455</u> <u>1505</u> <u>1300</u> <u>1310</u> <u>1250</u> <u>1230</u>	DATE <u>6/12/14</u> <u>6/13/14</u> <u>6/13/14</u> <u>6/13/14</u> <u>6/13/14</u> <u>6/13/14</u>	TIME <u>1455-300</u> <u>1500</u> <u>1510</u> <u>1438</u> <u>1358</u> <u>1437</u> <u>1423</u>	ACCEPTED BY / AFFILIATION <u>[Signature]</u> <u>[Signature]</u> <u>[Signature]</u> <u>[Signature]</u> <u>[Signature]</u> <u>[Signature]</u>	DATE <u>6/12/14</u> <u>6/13/14</u> <u>6/13/14</u> <u>6/13/14</u> <u>6/13/14</u> <u>6/13/14</u>	SAMPLE CONDITIONS Temp in °C _____ Received on Ice _____ Custody Sealed Cooler _____ Samples Intact _____

Comments: _____

SAMPLER NAME AND SIGNATURE: _____
 PRINT Name of SAMPLER: Brad Cordova
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YY): 06/13/14

ORIGINAL



Air Sample Condition Upon Receipt

Client Name: The Jewel Group Project #: _____

Job #: 10270745

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: 6/13/14

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>air can</u>		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received: 100 1 gauge pace 212

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>AS-1</u>	<u>1332</u>		<u>1020</u>		
<u>AS-2</u>	<u>1336</u>		<u>8079</u>		
<u>AS-3</u>	<u>1411</u>		<u>0339</u>		
<u>SU-4</u>	<u>1438</u>				
<u>SU-5</u>	<u>1358</u>				
<u>SU-6</u>	<u>1437</u>				
<u>SU-7</u>	<u>1423</u>				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: [Signature] Date: June 16, 2014
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)