



SYMBIONT
ENGINEERS • SCIENTISTS • CONSTRUCTORS

Prepared for:

**City of South Bend Brownfields Coalition
227 West Jefferson Boulevard, 13th Floor
South Bend, Indiana 46601**

Phase II Environmental Site Assessment

**Former K-Mart Shopping Center
4850 West Western Avenue
South Bend, Indiana 46619**

**Symbiont Project No. W150460
HEA Project No. 5200-16-08
August 24, 2016**

Prepared for:

**City of South Bend Brownfields Coalition
227 West Jefferson Boulevard, 13th Floor
South Bend, Indiana 46601**

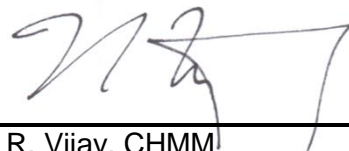
**Phase II
Environmental Site Assessment**

**Former K-Mart Shopping Center
4850 West Western Avenue
South Bend, Indiana 46619**

**Symbiont Project No. W150460
HEA Project No. 5200-16-08
August 24, 2016**



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ACRONYMS AND ABBREVIATIONS

amsl	Above Mean Sea Level
bgs	Below Ground Surface
Coalition	City of South Bend Brownfields Coalition
ESA	Environmental Site Assessment
EPA	United States Environmental Protection Agency
GPR	Ground Penetrating Radar
HEA	Heartland Environmental Associates, Inc
IDEM	Indiana Department of Environmental Management
LUST	Leaking Underground Storage Tank
mg/kg	Milligrams per Kilogram
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PAH	Polycyclic Aromatic Hydrocarbon
PBC	Polychlorinated Biphenyls
PID	Photoionization Detector
ppm	Parts Per Million
Pace	Pace Analytical, Indianapolis, IN
PVC	Polyvinyl Chloride
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
RCG	Remediation Closure Guide
REC	Recognized Environmental Condition
RMGSL	Residential Migration to Groundwater
SAG	Site Assessment Grant
SAP	Sampling and Analysis Plan
Site	Former K-Mart Shopping Center, 4850 West Western Ave, South Bend, IN
Symbiont	Symbiont Science, Engineering and Construction
µg/kg	Micrograms per Kilogram
µg/l	Micrograms per Liter
UST	Underground Storage Tank
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

This Phase II Environmental Site Assessment (ESA) Report summarizes the results of an environmental investigation of the former K-Mart Shopping Center located at 4850 West Western Avenue, South Bend, Indiana (referred to as the “Site” or the “property”) (Figure 1).

The Phase II ESA was conducted in accordance with a site-specific Sampling and Analysis Plan prepared by Symbiont and Heartland Environmental Associates, Inc. (Heartland, Symbiont, 2016) and approved by the United States Environmental Protection Agency (EPA). The Phase II ESA was completed under the City of South Bend Brownfields Coalition’s EPA Community-Wide Brownfield Site Assessment Grant.

The purpose of the Phase II ESA was to evaluate recognized environmental conditions (RECs) and other environmental concerns identified in the Phase I Environmental Site Assessment (Heartland, 2016).

CONCLUSIONS

The following conclusions regarding Site conditions are based on the results of the Phase II Environmental Site Assessment.

Soil

- Volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCB) were not detected in any of the soil samples collected at the Site. Based on these results, there does not appear to be petroleum product impacts to Site soil in the vicinity of the soil sample locations.
- Lead was detected in all soil samples collected at the Site as part of the Phase II ESA. Lead was detected in site soil samples at concentrations ranging from 1.6 to 4.7 micrograms per kilogram (mg/kg). These detected concentrations of lead did not exceed the Indiana Department of Environmental Management (IDEM), Remediation Closure Guide (RCG) Residential Migration to Groundwater Screening Levels (RMGSLs). The presence of low concentrations of lead are presumed to be naturally occurring (<http://sustainableindiana2016.org/lead-in-indianas-soil/>) and not likely associated with a petroleum release.

Groundwater

- VOCs and PAHs were not detected in any of the groundwater samples collected at the site. Based on these results, there appears to be no petroleum product impacts to site groundwater in the vicinity of the groundwater sample locations.
- Lead was detected in all groundwater samples collected at the Site as part of the Phase II ESA. Lead was detected in groundwater samples at concentrations ranging from 16.0 to 76.2 micrograms per liter (ug/l). The detected concentrations of lead exceed the IDEM RCG Residential Screening Level (RSL) of 15 ug/l. It is likely, due to the low

concentrations of lead encountered and the limited lead impacts encountered in soil, that lead impacts in groundwater are a result of elevated turbidity in groundwater samples collected from temporary groundwater piezometers and are not a result of impacts due to historic site usage.

Underground Storage Tanks

- No subsurface anomalies indicative of underground storage tanks (USTs) were identified during the ground penetrating radar survey.

RECOMMENDATIONS

Based on the results of field observations, and soil and groundwater analytical data, there appears to be no impacts to soil and groundwater associated with the RECs and environmental concerns identified in Phase I ESA. Additional soil and/or groundwater investigations do not appear to be warranted at the Site at this time based on the results of this Phase II ESA.

Interested parties may wish to retain legal counsel in this matter as Symbiont and Heartland are not qualified to provide legal advice.

Section 1.0 INTRODUCTION

This Phase II Environmental Site Assessment (ESA) Report summarizes the results of an environmental investigation of the former K-Mart property located at 4850 West Western Avenue, South Bend, Indiana (herein referred to as the "Site" or "property"). The ESA was completed in accordance with a site-specific Sampling and Analysis Plan (SAP) prepared by Symbiont (Symbiont, 2016) and approved by the United States Environmental Protection Agency (EPA). The Phase II ESA was completed as part of an EPA Community-Wide Brownfield Site Assessment Grant awarded to the City of South Bend Brownfields Coalition (Coalition) in September 2014 under Cooperative Agreement BF-00E01371. The Site location map is provided as Figure 1.

The purpose of the Phase II ESA was to evaluate recognized environmental conditions (RECs) and other environmental concerns identified in the Phase I ESA (Heartland, 2016). Specifically, the purpose of the assessment was to determine if there is evidence of underground storage tanks (USTs) at the Site and to confirm the presence of petroleum products and/or hazardous substances at the Site in conditions that constitute disposal or a release, or provide sufficient information to render a professional opinion that there is no reasonable basis to suspect the presence of hazardous substances or petroleum products at the Site.

Supporting documentation is presented in the following appendices:

- Appendix A – Soil Boring Logs
- Appendix B – Laboratory Reports

Section 2.0 BACKGROUND INFORMATION

2.1 SITE DESCRIPTION/BACKGROUND

The site is located on approximately 9.75-acres situated on one parcel (Parcel # 018-4129-50324). The site was developed in 1976 as a K-Mart Shopping Center. The site operated as a K-Mart retail store from 1976 through 2005, when the site was vacated. The eastern portion of the site was subsequently segmented and began operation as a Family Dollar retail store in 2007. Three additional retail vendors have also operated in the eastern portion of the site since 2007, with the vendors including a restaurant, an insurance sales office and a cellular phone retailer. Prior to development as K-Mart the site was undeveloped.

The remainder of the Site currently consists of the partially vacant commercial shopping center plaza with an associated parking lot and landscaped areas. The site is currently owned by 4850 Western, LLC. A site location map is provided as Figure 1.

2.2 PHYSICAL SETTING

The Site elevation is approximately 720 feet above mean sea level. The Site is generally flat and gently slopes to the southwest.

2.3 RECOGNIZED ENVIRONMENTAL CONDITIONS

A Phase I ESA conducted in April 2016 (Heartland, 2016), identified the following RECs and potential environmental concerns at the Site.

Historical Presence of an Underground Storage Tank

As part of operations as K-Mart, the Site historically operated an automobile repair center, located in the westernmost portion of the Site building. The Site operated at least one UST containing waste oil. This UST was removed in October 1993.

Soil samples collected in 1993 during UST removal activities indicated the presence of total petroleum hydrocarbon impacts at concentrations exceeding Indiana Department of Environmental Management (IDEM) cleanup objectives. The site was issued a low priority leaking underground storage tank (LUST) incident number (LUST Incident #199301523) in 1994 for this release.

After further review from IDEM, this LUST incident was issued a No Further Action (NFA) status in December 1999 based on the low levels of TPH encountered during the UST removal. Groundwater samples were not collected as part of the UST closure confirmation sampling.

Potential Existing Underground Storage Tank

During the 2016 Phase I Site inspection, evidence of an additional UST, in the form of a vent pipe and access panel, was observed directly west of the Site building, near the location of the previously removed UST. The potential exists that a replacement waste oil UST was installed

after removal of the previous waste oil UST. Documentation pertaining to the installation or registration of a new UST was located during records search of the Site.

Historical Property Use as an Automobile Service Garage

As stated above, a portion of the Site operated as an automobile service garage from at least 1976 through 2005. The service garage operated at least four hydraulic lifts. These hydraulics lifts appeared to still be present during the time of the Phase I ESA Site inspection.

It was determined that a Phase II ESA should be conducted to evaluate for the presence of petroleum impacts to soil and/or groundwater based on historic usage of the Site. This SAP has been prepared to outline the scope of work for the recommended Phase II ESA.

2.4 OBJECTIVE AND SCOPE OF WORK

The objective of this Phase II ESA is to evaluate RECs identified in the Phase I ESA. Specifically, the purpose of the assessment is to determine if there is an existing UST on Site. Additionally, the purpose of the assessment is to determine if there were petroleum product releases associated with historic usage of the Site.

Field investigation activities and laboratory analyses were conducted in accordance with the site specific Sampling and Analysis Plan (SAP) (Symbiont and Heartland 2016) and the Quality Assurance Project Plan (QAPP) (Heartland, 2016).

The scope of work for investigation of potential Site soil impacts included:

- Sample collection and descriptive logging of soil at seven boring locations within the vicinity of the former UST and existing hydraulic lifts. Four borings were installed with the vicinity of the former UST and three soil boring were installed in the vicinity of the existing hydraulic lifts.
- Field screening of soil samples in each boring using a photoionization detector (PID) for the presence of volatile organic compounds (VOCs).
- Soil samples collected in the vicinity of the former UST were submitted to an analytical laboratory for lead, polycyclic aromatic hydrocarbons (PAHs), and VOC analysis.
- Soil samples collected in the vicinity of the existing hydraulic lifts were submitted to an analytical laboratory for analysis of polychlorinated biphenyls (PCBs) in addition to lead, VOCs, and PAHs.
- Field duplicate, trip blank, matrix-spike (MS) and matrix-spike duplicate (MSD) samples were collected and also analyzed in accordance with the SAP and QAPP.
- Surveying of boring locations.

The scope of work for investigation of potential Site groundwater impacts included:

- Completion of all seven soil borings as temporary one-inch diameter polyvinyl chloride (PVC) groundwater monitoring wells.
- Measurement of water levels and confirmation of the presence/absences of light non-aqueous phase liquids (LNAPL), and development and sampling of temporary wells.
- Laboratory analysis of groundwater samples for dissolved lead, PAHs and VOCs. Field duplicate, trip blank, MS and MSD samples were collected and submitted to the laboratory for analysis in accordance with the SAP and QAPP.
- Surveying temporary and permanent monitoring wells.

The scope of work for confirming the presence of a possible UST on Site included:

- Performing a ground penetrating radar (GPR) survey in the vicinity of the former USTs to identify existing an existing tank and/or tank excavation pits.

Section 3.0 METHODS OF INVESTIGATION

This section summarizes the methods of investigation used to perform the field and laboratory portions of the Phase II ESA.

3.1 SOIL ASSESSMENT

Soil Boring Installation

Seven soil borings were installed using Geoprobe® Dual-Tube direct-push drilling techniques.

The soil types and observations were described and recorded by an onsite geologist. Soil boring logs are provided in Appendix A. The locations of boreholes are shown in Figure 2.

All probe drilling rods and soil sampling equipment were decontaminated prior to arrival onsite and between soil boring locations. Sampling equipment was decontaminated with an Alconox™ equivalent wash followed by clean tap water or distilled water rinses.

Field Screening

Soil samples from approximately every one to two-foot interval of subsurface were field screened for the presence of VOCs using a PID. The results were recorded in parts per million (ppm) and are reported on the soil boring logs (Appendix A).

Sampling and Laboratory Analysis

One soil sample was collected from each soil boring for laboratory analysis. Soil samples for laboratory analyses were collected from immediately above the water table, which was estimated at approximately 8 feet below ground surface (bgs).

Soil samples for laboratory analysis were placed directly into laboratory-supplied containers, preserved as appropriate, and immediately placed in a cooler on ice for shipping to Pace Analytical – Indianapolis, Indiana (Pace) under a chain of custody for analysis.

Soil samples were analyzed for lead using EPA Method 6020B, PAHs using EPA Method 8270 SIM, VOCs using EPA Method 8260. Soil samples collect from soil borings SB-5 through SB-7 were analyzed for PCBs using EPA Method 8082 in addition to lead, VOCs, and PAHs. Field duplicate samples were submitted for lead, PAHs, VOCs, and PCB analysis. Trip blanks were submitted to the laboratory for VOC analysis. In order to ensure that the laboratory's data precision and accuracy were maintained, soil MS and MSD samples were submitted to the laboratory for analysis. Laboratory reports are provided in Appendix B.

Evaluation Criteria

Potential environmental impacts to soil were evaluated by comparing the concentrations of the detected constituents with their respective IDEM Remediation Closure Guide (RCG) Residential

Migration to Groundwater Screening Levels (RMGSLs) and Residential Direct Contact Screening Levels, as issued March 2012 and amended March 2016.

3.2 GROUNDWATER ASSESSMENT

Temporary Monitoring Well Installation

Temporary monitoring wells constructed of 1-inch diameter schedule 40 polyvinyl chloride blank well casing and 0.010-inch slotted well screens were installed at each of the seven soil boring locations. Quartz filter sand was placed in the annular space between the borehole wall and the outside of each screen. The annular space above the filter pack was filled to the ground surface with granular bentonite to serve as a seal to prevent infiltration of surface water runoff into the borings. The locations of the temporary wells provided in Figure 2.

Water Level Measurements

After the wells were developed and given time to recharge, static groundwater level measurements were collected. The water level recorded at each monitoring well was used to determine the surface elevation of the water table at each well. Measurements were recorded using a Solinist™ water level indicator which was decontaminated between each well. The approximate depth to the water table is presented in Table 3. An oil/water interface probe was used to determine the presence or absence of LNAPL in each of the temporary monitoring wells. LNAPL was not detected in any of the temporary monitoring wells.

Sampling and Laboratory Analysis

Temporary groundwater monitoring wells were allowed to stabilize following well installation for at least 24-hours prior to sampling. Groundwater samples were collected from each temporary well utilizing dedicated disposable bailers after allowing for the 24-hour stabilization period.

Groundwater samples collected for dissolved lead were collected with a disposable bailer and placed into a non-preserved container and filtered by the laboratory prior to analysis. Groundwater samples collected for PAH analysis were collected with a disposable bailer and samples were placed directly into laboratory supplied non-preserved amber glass jars. Groundwater samples collected for VOC analysis were collected with a disposable bailer and samples were placed directly into laboratory-supplied sample jars containing a hydrochloric acid preservative. Samples were then labeled and placed in a cooler on ice for shipping to Pace under a chain of custody for analysis.

Groundwater sample analyses included dissolved lead, PAHs and VOCs. Field sampling precision and data quality was evaluated through the use of sample duplicates and trip blanks. Field duplicate samples were submitted for lead PAHs and VOCs analysis. Trip blanks were submitted to the laboratory for VOC analysis. Groundwater MS and MSD samples were also submitted to the laboratory for analysis. Laboratory reports are provided in Appendix B.

Evaluation Criteria

Potential environmental impacts to groundwater were evaluated by comparing the concentrations of the detected constituents with their respective IDEM RCG Residential Screening Levels (RSLs), as issued March 2012 and amended March 2016.

3.3 GROUND PENETRATING RADAR SURVEY

GPR is a non-destructive geophysical method that uses the reflection of microwave radiation to image the subsurface. Pulsed high frequency radio waves in the microwave band of the radio spectrum (radar) are directed into the ground and the reflected signals are detected, processed, and displayed to give a visual image of the subsurface structure. The GPR detects differences in physical properties such as conductivity and density; metallic objects are most clearly visible, but it can also detect PVC, concrete, and often old excavations if the backfill is different from native soil. As each scan progresses, the GPR presents a sub-surface image in real time, allowing USTs, utilities, foundations, and other significant anomalies to be marked out directly in the field.

A GPR survey was conducted in the areas where suspected underground storage tanks could be present based on findings of the Phase I ESA. Additionally, a GPR survey was conducted at all boring locations to clear the drilling areas of underground utilities prior to conducting subsurface work.

Section 4.0
PHASE II ENVIRONMENTAL
SITE ASSESSMENT RESULTS

The soil and groundwater sample locations are depicted on Figure 2. Laboratory reports for soil and groundwater are provided in Appendix B and summarized in Tables 1 and 2. Water level measurements are summarized in Table 3.

4.1 SOIL CONDITIONS

The following paragraphs describe the results of the Phase II ESA soil investigation.

4.1.1 Field Observations

Six borings (SB-2 through SB-7) were completed to a depth of 12 feet bgs and one soil boring (SB-1) was completed to a depth of approximately 28 feet bgs. The exterior of the site at boring locations SB-1 through SB-4 is capped with approximately 3-inches of asphalt. Interior borings SB-4 through SB-7 is capped with approximately 6-inches of concrete.

The Site is generally underlain by discontinuous hard clays, fine sands, coarse sands and occasional cobbles. The water table is generally encountered in a coarse grained sand that occurs at approximately 6 to 8 feet bgs (Appendix A).

VOC were not detected at concentrations exceeding 1.0 ppm in soil samples screened using a PID.

4.1.2 Laboratory Analytical Results

Laboratory analytical results for soil samples are summarized in Table 1. Sample results are discussed in the following paragraphs.

Lead in Soil

Lead was detected in all soil samples collected from each of the soil borings drilled and sampled on Site. Concentrations of lead ranged from 1.7 milligrams per kilogram (mg/kg) in a soil sample collected from 8 to 9 feet bgs from soil boring SB-2 to 4.7 mg/kg in a soil sample collected from 26 to 28 feet bgs from soil boring SB-1 (Table 1).

Other Constituents

All soil samples collected as part of the Phase II ESA were analyzed for VOCs and PAHs. VOCs and PAHs were not detected above laboratory detection limits in any of the soil samples. PCBs were analyzed for soil samples collected from soil borings SB-5, SB-6 and SB-7. PCBs were not detected above laboratory detection limits in the soil samples collected from these borings (Appendix B).

4.2 GROUNDWATER CONDITIONS

The following paragraphs describe the results of the groundwater investigation.

4.2.1 Site Hydrogeology

Depth to groundwater was measured in Site temporary monitoring wells on July 22, 2016. Groundwater elevation at the Site ranged from 89.84 feet above mean sea level (amsl) at SB-7 to 90.30 feet amsl at SB-1. The apparent flow direction of groundwater across the Site is primarily to the east (Table 3).

4.2.2 Laboratory Analytical Results

Laboratory analytical results for groundwater samples are summarized in Table 2. Sample results are discussed in detail in the following paragraphs.

Lead in Groundwater

Lead was detected in all groundwater samples collected from each of the temporary groundwater monitoring wells installed and sampled at the Site. Concentrations of lead in groundwater ranged from 16.0 ug/l in a groundwater sample collected from SB-6 to 76.2 ug/l in a groundwater sample collected from SB-4 (Table 2).

Other Constituents

All groundwater samples collected as part of the Phase II ESA were analyzed for VOCs and PAHs. VOCs and PAHs were not detected above laboratory detection limits in any of the groundwater samples (Appendix B).

4.3 GROUND PENETRATING RADAR RESULTS

The GPR survey did not identify any sub surface structures and/or anomalies that were interpreted as a potential UST.

Section 5.0 CONCLUSIONS AND RECOMMENDATIONS

The following paragraphs summarize the conclusions and recommendations of this Phase II ESA.

5.1 CONCLUSIONS

Soil

- VOCs, PAHs and PCB were not detected in any of the soil samples collected at the Site and analyzed for these constituents. Based on these results, there does not appear to be petroleum product impacts to Site soil in the vicinity of the soil boring and sampling locations.
- Lead was detected in all soil samples collected at the Site as part of the Phase II ESA. Lead was not detected at concentrations exceeding its respective IDEM RCG RMGSLs. The presence of low concentrations of lead are presumed to be naturally occurring (<http://sustainableindiana2016.org/lead-in-indianas-soil/>) and not likely associated with a petroleum release.

Groundwater

- VOCs and PAHs were not detected in any of the groundwater samples collected at the Site. Based on these results, there appear to be no petroleum product impacts to site groundwater in the vicinity of the groundwater sample locations.
- Lead was detected in all groundwater samples collected at the Site as part of the Phase II ESA. Lead was detected in groundwater samples at concentrations ranging from 16.0 to 76.2 ug/l. The detected concentrations of lead exceed the IDEM RCG RSL for residential tap of 15 ug/l. It is likely, due to the low concentrations of lead encountered and the limited lead impacts encountered in soil, that lead impacts in groundwater are a result of elevated turbidity in groundwater samples collected from temporary groundwater piezometers and are not a result of impacts due to historic Site usage.

Underground Storage Tanks

- No subsurface anomalies indicative of underground storage tanks were identified during the GPR survey conducted as part of the Phase II ESA.

5.2 RECOMMENDATIONS

Based on the results of field observations, and soil and groundwater analytical data, there appears to be no impacts to soil and groundwater associated with the RECs and environmental concerns identified in Phase I ESA. Additional soil and/or groundwater investigations related to

the RECs do not appear to be warranted at the Site at this time based on the results of this Phase II ESA.

Interested parties may wish to retain legal counsel in this matter as Symbiont and Heartland are not qualified to provide legal advice.

Section 6.0 LIMITATIONS

The Phase II ESA was performed in accordance with generally accepted practices for the environmental consulting profession, undertaking similar studies at the same time and in the same geographical area as the work conducted by Symbiont and Heartland. Symbiont and Heartland observed the degree of care and skill that are generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Symbiont and Heartland's observations, findings, and opinions should not be considered as scientific certainties, but only as opinion based upon our professional judgment concerning the significance of the data gathered during the course of this investigation. Specifically, Symbiont and Heartland cannot represent that the Property contains hazardous or toxic materials or other latent conditions beyond that observed by Symbiont and Heartland during the course of the investigation. Additionally, due to limitations of the investigation process and the necessary use of data furnished by others, Symbiont, Heartland, and its subcontractors cannot assume liability if actual conditions differ from the information presented in this report.

Section 7.0
REFERENCES

Heartland, 2015, Quality Assurance Project Plan, City of South Bend Brownfields Coalition, Community-Wide Brownfields Assessment Project, prepared for The City of South Bend and Coalition Partners, The City of Mishiwaka, and Saint Joseph County, Indiana, February 2015.

Heartland, 2016, Phase I Environmental Site Assessment, Former K-Mart Shopping Center, 4850 West Western Avenue, South Bend, Indiana, April 12, 2016.

Symbiont, 2016, Sampling and Analysis Plan for Phase II Environmental Site Assessment, Former K-Mart Shopping Center, 4850 West Western Avenue, South Bend, Indiana 46619, May 6, 2016.

TABLES

TABLE 1

LEAD IN SOIL
FORMER K-MART SHOPPING CENTER,
SOUTH BEND, INDIANA

BORING IDENTIFIER	SAMPLE DEPTH (feet bgs)	SAMPLE DATE	RESULT (mg/kg)	IDEM RCG DEFAULTING SCREENING LEVELS, MARCH 2016			
				SOIL EXPOSURE, DIRECT CONTACT			GROUNDWATER
				RESIDENTIAL (mg/kg)	COMMERCIAL/ INDUSTRIAL (mg/kg)	EXCAVATION (mg/kg)	SOIL MTG RESIDENTIAL (mg/kg)
SB-1	26 - 28	7/18/16	4.7	400	800	1000	270
SB-2	8 - 9	7/21/16	1.7				
SB-3	8 - 9	7/21/16	2.2				
SB-4	7 - 8	7/21/16	2.1				
SB-5	8 - 9	7/21/16	3.8				
SB-6	8 - 9	7/21/16	1.9				
SB-7	8 - 9	7/21/16	2.9				

IDEM RCG = Indiana Department of Environmental Management, Remediation Closure Guide

bgs = below ground surface

mg/kg = milligrams per kilogram

MTG = migration to groundwater

NOTE: Volatile organic compounds, polycyclic aromatic hydrocarbons, and polychlorinated biphenyls were analyzed for but not detected in soil samples. Refer to Appendix B for laboratory reports.

TABLE 2

LEAD IN GROUNDWATER
FORMER K-MART SHOPPING CENTER,
SOUTH BEND, INDIANA

BORING/ TEMPORARY WELL IDENTIFIER	SAMPLE DATE	RESULT (ug/l)	IDEM RCG DEFAULTING SCREENING LEVELS, MARCH 2016
			GROUNDWATER
			RESIDENTIAL TAP (ug/l)
SB-1	7/22/16	24.3	15
SB-2	7/22/16	28.7	
SB-3	7/22/16	18.0	
SB-4	7/22/16	76.2	
SB-5	7/22/16	40.4	
SB-6	7/22/16	16.0	
SB-7	7/22/16	28.1	

IDEM RCG = Indiana Department of Environmental Management, Remediation Closure Guide

bgs = below ground surface

ug/l = micrograms per liter

NOTE: Volatile organic compounds and polycyclic aromatic hydrocarbons were analyzed for but not detected in groundwater samples. Refer to Appendix B for laboratory reports.

TABLE 3

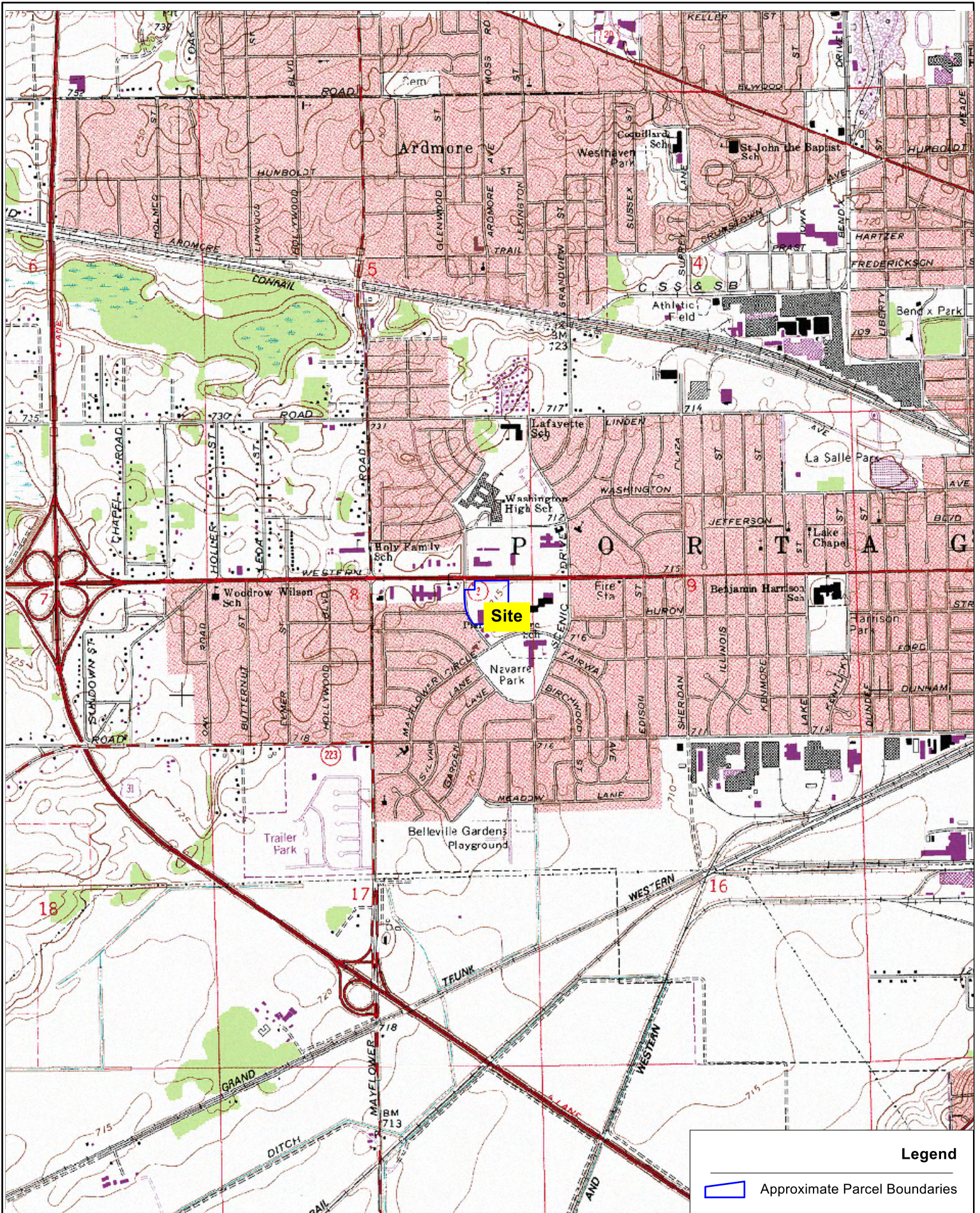
GROUNDWATER ELEVATION DATA
FORMER K-MART SHOPPING CENTER
SOUTH BEND, INDIANA

TEMPORARY WELL IDENTIFIER	MEASURING POINT ELEVATION (feet amsl)	TOTAL DEPTH OF WELL (feet below MPE)	DEPTH TO WATER (feet below MPE)	WATER LEVEL ELEVATION (feet amsl)
SB-1	97.35	11.85	7.05	90.30
SB-2	97.32	11.94	7.23	90.09
SB-3	98.12	11.75	8.00	90.12
SB-4	98.17	11.96	8.13	90.04
SB-5	101.20	14.70	11.29	89.91
SB-6	101.37	14.75	11.50	89.87
SB-7	101.41	14.75	11.57	89.84

amsl = above mean sea level

MPE = measuring point elevation

FIGURES



Legend

Approximate Parcel Boundaries


 6737 West Washington Street
 Suite 3440
 West Allis, Wisconsin 53214
 414.291.8840
 FAX 414.291.8841

DSGN: NV	CHK:
DR: JRB	APVD:

Former K-Mart Shopping Center
 4850 West Western Avenue
 South Bend, Indiana 46619

Figure 1
 Site Location Map


SCALE 1 in : 2000.00 ft
 DWG
 DATE 5/2/2016
 PROJ.
 NO. 5200-16-07



Legend

⊕ Soil Boring Location

▭ Approximate Parcel Boundaries


 6737 West Washington Street
 Suite 3440
 West Allis, Wisconsin 53214
 414.291.8840
 FAX 414.291.8841

DSGN: NV	CHK:
DR: JRB	APVD:

Former K-Mart Shopping Center
 4850 West Western Avenue
 South Bend, Indiana 46619

Figure 2
 Soil Boring Location Map

SCALE 1 in : 50.00 ft
DWG
DATE 8/10/2016
PROJ. NO. 5200-16-07

APPENDIX A
SOIL BORING LOGS

SB-1

5200-16-08 Former K-Mart Shopping Center 4850 West Western Avenue South Bend, IN

Drilling Contractor	Ark Engineering Services	Drill Rig	Geoprobe
Driller	Chris Chambers License 2067	Ground Elevation	97.27
Geologist	John Barnhart	Static Water Level	Feet
Date Drilled	7/18/2016	Total Depth of borehole	28 Feet
Boring Diameter	Inches	Boring Method	Direct Push

Graphic Log	Description	Depth	Sample	Recovery (ft)	Blow Count	PID (ppm)	Completion
	Asphalt					0.0	
	Topsoil					0.0	
	Fine to medium sand, light yellow brown, 10YR 6/4, friable, low moisture			3.0		0.0	
	Medium sand, light yellow brown, 10YR 6/4, hard, moderate moisture	5				0.0	
	Clay			3.1		0.2	
	Medium sand, light yellow brown, 10YR 6/4, some pebbles, wet at base					0.0	
	Clay, brown, 10YR 5/3, hard, some pebbles, medium moisture	10		4.0		0.0	
	Clay, gray brown, 10YR 5/2, hard, some pebbles	15		3.0		0.3	
	Clay, gray brown, 10YR 5/2, hard, some pebbles, sl moist	20		2.0		0.3	
	Clay, gray brown, 10YR 5/2, hard, some pebbles, sl moist	20		4.0		0.0	
	Clay, gray, 10YR 5/1, slightly moist, some pebbles	25				0.0	
	Clay, gray, 10YR 5/1, slightly moist, some pebbles	25		4.0		0.0	
	Total depth 28-ft						

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SB-2

5200-16-08 Former K-Mart Shopping Center 4850 West Western Avenue South Bend, IN

Drilling Contractor	Ark Engineering Services	Drill Rig	Geoprobe
Driller	Chris Chambers License 2067	Ground Elevation	97.26
Geologist	John Sill	Static Water Level	Feet
Date Drilled	7/21/2016	Total Depth of borehole	12 Feet
Boring Diameter	Inches	Boring Method	Direct Push

Graphic Log	Description	Depth	Sample	Recovery (ft)	Blow Count	PID (ppm)	Completion
	Asphalt					0.0	
	Fine sand, white					0.0	
	Fine sand to cobbles					0.0	
	Fine sand to cobbles, clayey	5				0.0	
	Fine sand to cobbles					0.0	
	Fine sand, moist					0.0	
	Coarse sand, wet					0.2	
		10				0.1	
	Clay					0.0	
	Total Depth 12-ft					0.0	
		15					

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SB-3

5200-16-08 Former K-Mart Shopping Center 4850 West Western Avenue South Bend, IN

Drilling Contractor	Ark Engineering Services	Drill Rig	Geoprobe
Driller	Chris Chambers License 2067	Ground Elevation	98.02
Geologist	John Sill	Static Water Level	Feet
Date Drilled	7/21/2016	Total Depth of borehole	12 Feet
Boring Diameter	Inches	Boring Method	Direct Push

Graphic Log	Description	Depth	Sample	Recovery (ft)	Blow Count	PID (ppm)	Completion
	Asphalt Clay black, coarse sand, yellow, fine sand, white, moist	0				0.0	
	Fine sand, white, wet, clay seam @ 8-ft	5				0.2 0.3	
	Coarse sand, wet	10	[Cross-hatched]			0.0 0.0	
	Clay	10				0.0	
	Total Depth 12-ft	15					

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SB-4

5200-16-08 Former K-Mart Shopping Center 4850 West Western Avenue South Bend, IN

Drilling Contractor	Ark Engineering Services	Drill Rig	Geoprobe
Driller	Chris Chambers License 2067	Ground Elevation	98.12
Geologist	John Sill	Static Water Level	Feet
Date Drilled	7/21/2016	Total Depth of borehole	12 Feet
Boring Diameter	Inches	Boring Method	Direct Push

Graphic Log	Description	Depth	Sample	Recovery (ft)	Blow Count	PID (ppm)	Completion
	Asphalt					0.0	
	Fine sand, brown, moist					0.0	
	Fine sand, white, clay seam at 3.5-ft					0.0	
	Fine sand, cobbles & clay at 6-ft, moist	5				0.0	
	Coarse sand, cobbles					0.0	
	Fine sand, wet, rocky seam at 10.5-ft					0.2	
		10				0.0	
	Clay, tight					0.0	
	Total Depth 12-ft					0.0	
		15					


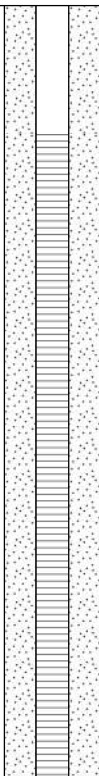


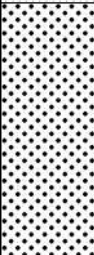




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SB-5

5200-16-08 Former K-Mart Shopping Center 4850 West Western Avenue South Bend, IN

Drilling Contractor	Ark Engineering Services	Drill Rig	Geoprobe
Driller	Chris Chambers License 2067	Ground Elevation	98.54
Geologist	John Sill	Static Water Level	Feet
Date Drilled	7/21/2016	Total Depth of borehole	12 Feet
Boring Diameter	Inches	Boring Method	Direct Push

Graphic Log	Description	Depth	Sample	Recovery (ft)	Blow Count	PID (ppm)	Completion
	Concrete						
	Fine sand, moist					0.0	
	Fine sand, tan, dry					0.0	
	Fine sand, cobbles, yellow brown	5				0.0	
	Fine sand, gray, wet, some odor					0.5	
	Coarse sand, wet	10				0.0	
	Clay, hard					0.0	
	Total depth 12-ft	15					


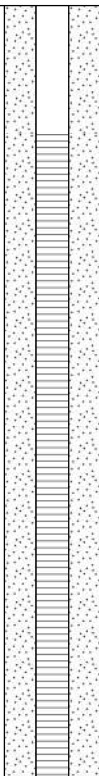







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SB-6

5200-16-08 Former K-Mart Shopping Center 4850 West Western Avenue South Bend, IN

Drilling Contractor	Ark Engineering Services	Drill Rig	Geoprobe
Driller	Chris Chambers License 2067	Ground Elevation	98.56
Geologist	John Sill	Static Water Level	Feet
Date Drilled	7/21/2016	Total Depth of borehole	12 Feet
Boring Diameter	Inches	Boring Method	Direct Push

Graphic Log	Description	Depth	Sample	Recovery (ft)	Blow Count	PID (ppm)	Completion
	Concrete						
	Fine sand, yellow brown					0.0	
	Sand, tan, dry					0.0	
	Sand, Clay at 7-ft, cobbles, at 7.5-8-ft	5				0.0	
	Coarse sand, brown, wet					0.0	
	Fine sand	10				0.0	
	Clay, brown, very tight					0.0	
	Total depth 12-ft	15					

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SB-7

5200-16-08 Former K-Mart Shopping Center 4850 West Western Avenue South Bend, IN

Drilling Contractor	Ark Engineering Services	Drill Rig	Geoprobe
Driller	Chris Chambers License 2067	Ground Elevation	98.52
Geologist	John Sill	Static Water Level	Feet
Date Drilled	7/21/2016	Total Depth of borehole	12 Feet
Boring Diameter	Inches	Boring Method	Direct Push

Graphic Log	Description	Depth	Sample	Recovery (ft)	Blow Count	PID (ppm)	Completion
	Concrete						
	Fine sand, yellow brown, clay seams @ 2-ft					0.0	
	Fine sand, white, dry					0.0	
		5				0.0	
	Sand, tan, cobbles, at 7-ft					0.0	
	Coarse sand, brown, wet at 8.5-ft					0.2	
	Fine sand, wet					0.0	
						0.0	
	Fine sand, rocky seam at 10.5-ft	10					
	Clay, brown, very tight					0.0	
	Total depth 12-ft						
		15					

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APPENDIX B

LABORATORY REPORTS

August 01, 2016

Mr. Nivas Vijay
Heartland Environmental Assoc., Inc.
3410 Mishawaka Avenue
Southbend, IN 46610

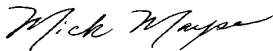
RE: Project: KMART
Pace Project No.: 50149910

Dear Mr. Vijay:

Enclosed are the analytical results for sample(s) received by the laboratory on July 19, 2016. 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,



Mick Mayse
mick.mayse@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: KMART
Pace Project No.: 50149910

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 200074

Indiana Certification #: C-49-06

Kansas/NELAP Certification #:E-10177

Kentucky UST Certification #: 0042

Kentucky WW Certification #:98019

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2014-148

Texas Certification #: T104704355-15-9

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-10-00128

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: KMART
Pace Project No.: 50149910

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50149910001	KM-SB-1(026028)	Solid	07/18/16 10:30	07/19/16 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: KMART
Pace Project No.: 50149910

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50149910001	KM-SB-1(026028)	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8260	TMW	73	PASI-I
		SM 2540G	SKK	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50149910

Sample: KM-SB-1(026028) **Lab ID: 50149910001** Collected: 07/18/16 10:30 Received: 07/19/16 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	4.7	mg/kg	0.98	1	07/22/16 07:12	07/26/16 01:07	7439-92-1	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	83-32-9	
Acenaphthylene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	208-96-8	
Anthracene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	207-08-9	
Chrysene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	53-70-3	
Fluoranthene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	206-44-0	
Fluorene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	91-57-6	
Naphthalene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	91-20-3	
Phenanthrene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	85-01-8	
Pyrene	ND	mg/kg	0.0054	1	07/22/16 10:39	07/26/16 17:02	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	74	%	25-121	1	07/22/16 10:39	07/26/16 17:02	321-60-8	
p-Terphenyl-d14 (S)	79	%	27-124	1	07/22/16 10:39	07/26/16 17:02	1718-51-0	

Analytical Method: EPA 8270

Acenaphthene	ND	ug/kg	356	1		07/20/16 19:51	83-32-9	
Acenaphthylene	ND	ug/kg	356	1		07/20/16 19:51	208-96-8	
Anthracene	ND	ug/kg	356	1		07/20/16 19:51	120-12-7	
Benzo(a)anthracene	ND	ug/kg	356	1		07/20/16 19:51	56-55-3	
Benzo(a)pyrene	ND	ug/kg	356	1		07/20/16 19:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	356	1		07/20/16 19:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	356	1		07/20/16 19:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	356	1		07/20/16 19:51	207-08-9	
Benzyl alcohol	ND	ug/kg	712	1		07/20/16 19:51	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	356	1		07/20/16 19:51	101-55-3	
Butylbenzylphthalate	ND	ug/kg	356	1		07/20/16 19:51	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	712	1		07/20/16 19:51	59-50-7	
4-Chloroaniline	ND	ug/kg	712	1		07/20/16 19:51	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	356	1		07/20/16 19:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	356	1		07/20/16 19:51	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	356	1		07/20/16 19:51	108-60-1	
2-Chloronaphthalene	ND	ug/kg	356	1		07/20/16 19:51	91-58-7	
2-Chlorophenol	ND	ug/kg	356	1		07/20/16 19:51	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	356	1		07/20/16 19:51	7005-72-3	
Chrysene	ND	ug/kg	356	1		07/20/16 19:51	218-01-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50149910

Sample: **KM-SB-1(026028)** Lab ID: **50149910001** Collected: 07/18/16 10:30 Received: 07/19/16 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 8270								
Dibenz(a,h)anthracene	ND	ug/kg	356	1		07/20/16 19:51	53-70-3	
Dibenzofuran	ND	ug/kg	356	1		07/20/16 19:51	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	712	1		07/20/16 19:51	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	356	1		07/20/16 19:51	120-83-2	
Diethylphthalate	ND	ug/kg	356	1		07/20/16 19:51	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	356	1		07/20/16 19:51	105-67-9	
Dimethylphthalate	ND	ug/kg	356	1		07/20/16 19:51	131-11-3	
Di-n-butylphthalate	ND	ug/kg	356	1		07/20/16 19:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1730	1		07/20/16 19:51	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1730	1		07/20/16 19:51	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	356	1		07/20/16 19:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	356	1		07/20/16 19:51	606-20-2	
Di-n-octylphthalate	ND	ug/kg	356	1		07/20/16 19:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	356	1		07/20/16 19:51	117-81-7	
Fluoranthene	ND	ug/kg	356	1		07/20/16 19:51	206-44-0	
Fluorene	ND	ug/kg	356	1		07/20/16 19:51	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	356	1		07/20/16 19:51	87-68-3	
Hexachlorobenzene	ND	ug/kg	356	1		07/20/16 19:51	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	356	1		07/20/16 19:51	77-47-4	
Hexachloroethane	ND	ug/kg	356	1		07/20/16 19:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	356	1		07/20/16 19:51	193-39-5	
Isophorone	ND	ug/kg	356	1		07/20/16 19:51	78-59-1	
1-Methylnaphthalene	ND	ug/kg	356	1		07/20/16 19:51	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	356	1		07/20/16 19:51	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	356	1		07/20/16 19:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	712	1		07/20/16 19:51		
Naphthalene	ND	ug/kg	356	1		07/20/16 19:51	91-20-3	
2-Nitroaniline	ND	ug/kg	1730	1		07/20/16 19:51	88-74-4	
3-Nitroaniline	ND	ug/kg	1730	1		07/20/16 19:51	99-09-2	
4-Nitroaniline	ND	ug/kg	1730	1		07/20/16 19:51	100-01-6	
Nitrobenzene	ND	ug/kg	356	1		07/20/16 19:51	98-95-3	
2-Nitrophenol	ND	ug/kg	356	1		07/20/16 19:51	88-75-5	
4-Nitrophenol	ND	ug/kg	1730	1		07/20/16 19:51	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	356	1		07/20/16 19:51	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	356	1		07/20/16 19:51	86-30-6	
Pentachlorophenol	ND	ug/kg	1730	1		07/20/16 19:51	87-86-5	
Phenanthrene	ND	ug/kg	356	1		07/20/16 19:51	85-01-8	
Phenol	ND	ug/kg	356	1		07/20/16 19:51	108-95-2	
Pyrene	ND	ug/kg	356	1		07/20/16 19:51	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	356	1		07/20/16 19:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	356	1		07/20/16 19:51	88-06-2	

8260 MSV 5035A VOA

Analytical Method: EPA 8260

Acetone	ND	mg/kg	0.080	1		07/28/16 06:18	67-64-1	
Acrolein	ND	mg/kg	0.080	1		07/28/16 06:18	107-02-8	
Acrylonitrile	ND	mg/kg	0.080	1		07/28/16 06:18	107-13-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50149910

Sample: KM-SB-1(026028) **Lab ID: 50149910001** Collected: 07/18/16 10:30 Received: 07/19/16 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Benzene	ND	mg/kg	0.0040	1		07/28/16 06:18	71-43-2	
Bromobenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	108-86-1	
Bromochloromethane	ND	mg/kg	0.0040	1		07/28/16 06:18	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0040	1		07/28/16 06:18	75-27-4	
Bromoform	ND	mg/kg	0.0040	1		07/28/16 06:18	75-25-2	
Bromomethane	ND	mg/kg	0.0040	1		07/28/16 06:18	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.020	1		07/28/16 06:18	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	98-06-6	
Carbon disulfide	ND	mg/kg	0.0080	1		07/28/16 06:18	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0040	1		07/28/16 06:18	56-23-5	
Chlorobenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	108-90-7	
Chloroethane	ND	mg/kg	0.0040	1		07/28/16 06:18	75-00-3	
Chloroform	ND	mg/kg	0.0040	1		07/28/16 06:18	67-66-3	
Chloromethane	ND	mg/kg	0.0040	1		07/28/16 06:18	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0040	1		07/28/16 06:18	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0040	1		07/28/16 06:18	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0040	1		07/28/16 06:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0040	1		07/28/16 06:18	106-93-4	
Dibromomethane	ND	mg/kg	0.0040	1		07/28/16 06:18	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.080	1		07/28/16 06:18	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0040	1		07/28/16 06:18	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0040	1		07/28/16 06:18	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0040	1		07/28/16 06:18	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0040	1		07/28/16 06:18	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0040	1		07/28/16 06:18	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0040	1		07/28/16 06:18	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0040	1		07/28/16 06:18	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0040	1		07/28/16 06:18	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0040	1		07/28/16 06:18	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0040	1		07/28/16 06:18	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0040	1		07/28/16 06:18	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0040	1		07/28/16 06:18	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.080	1		07/28/16 06:18	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0040	1		07/28/16 06:18	87-68-3	
n-Hexane	ND	mg/kg	0.0040	1		07/28/16 06:18	110-54-3	
2-Hexanone	ND	mg/kg	0.080	1		07/28/16 06:18	591-78-6	
Iodomethane	ND	mg/kg	0.080	1		07/28/16 06:18	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0040	1		07/28/16 06:18	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0040	1		07/28/16 06:18	99-87-6	
Methylene Chloride	ND	mg/kg	0.016	1		07/28/16 06:18	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50149910

Sample: KM-SB-1(026028) **Lab ID: 50149910001** Collected: 07/18/16 10:30 Received: 07/19/16 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.020	1		07/28/16 06:18	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0040	1		07/28/16 06:18	1634-04-4	
Naphthalene	ND	mg/kg	0.0040	1		07/28/16 06:18	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	103-65-1	
Styrene	ND	mg/kg	0.0040	1		07/28/16 06:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0040	1		07/28/16 06:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0040	1		07/28/16 06:18	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0040	1		07/28/16 06:18	127-18-4	
Toluene	ND	mg/kg	0.0040	1		07/28/16 06:18	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0040	1		07/28/16 06:18	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0040	1		07/28/16 06:18	79-00-5	
Trichloroethene	ND	mg/kg	0.0040	1		07/28/16 06:18	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0040	1		07/28/16 06:18	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0040	1		07/28/16 06:18	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0040	1		07/28/16 06:18	108-67-8	
Vinyl acetate	ND	mg/kg	0.080	1		07/28/16 06:18	108-05-4	
Vinyl chloride	ND	mg/kg	0.0040	1		07/28/16 06:18	75-01-4	
Xylene (Total)	ND	mg/kg	0.0080	1		07/28/16 06:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	70-128	1		07/28/16 06:18	1868-53-7	
Toluene-d8 (S)	113	%.	72-139	1		07/28/16 06:18	2037-26-5	
4-Bromofluorobenzene (S)	77	%.	65-127	1		07/28/16 06:18	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	7.3	%	0.10	1		07/26/16 16:25		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50149910

QC Batch:	342981	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	50149910001		

METHOD BLANK: 1588483 Matrix: Solid
Associated Lab Samples: 50149910001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	07/26/16 01:00	

LABORATORY CONTROL SAMPLE: 1588484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	48.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1588485 1588486

Parameter	Units	50149993003		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Lead	mg/kg	10.1	64.6	63.8	70.5	63.4	93	84	75-125	11	20			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50149910

QC Batch: 344036 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50149910001

METHOD BLANK: 1592881 Matrix: Solid
Associated Lab Samples: 50149910001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	07/28/16 01:54	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	07/28/16 01:54	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	07/28/16 01:54	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	07/28/16 01:54	
1,1-Dichloroethane	mg/kg	ND	0.0050	07/28/16 01:54	
1,1-Dichloroethene	mg/kg	ND	0.0050	07/28/16 01:54	
1,1-Dichloropropene	mg/kg	ND	0.0050	07/28/16 01:54	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	07/28/16 01:54	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	07/28/16 01:54	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	07/28/16 01:54	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	07/28/16 01:54	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	07/28/16 01:54	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	07/28/16 01:54	
1,2-Dichloroethane	mg/kg	ND	0.0050	07/28/16 01:54	
1,2-Dichloropropane	mg/kg	ND	0.0050	07/28/16 01:54	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	07/28/16 01:54	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	07/28/16 01:54	
1,3-Dichloropropane	mg/kg	ND	0.0050	07/28/16 01:54	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	07/28/16 01:54	
2,2-Dichloropropane	mg/kg	ND	0.0050	07/28/16 01:54	
2-Butanone (MEK)	mg/kg	ND	0.025	07/28/16 01:54	
2-Chlorotoluene	mg/kg	ND	0.0050	07/28/16 01:54	
2-Hexanone	mg/kg	ND	0.10	07/28/16 01:54	
4-Chlorotoluene	mg/kg	ND	0.0050	07/28/16 01:54	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	07/28/16 01:54	
Acetone	mg/kg	ND	0.10	07/28/16 01:54	
Acrolein	mg/kg	ND	0.10	07/28/16 01:54	
Acrylonitrile	mg/kg	ND	0.10	07/28/16 01:54	
Benzene	mg/kg	ND	0.0050	07/28/16 01:54	
Bromobenzene	mg/kg	ND	0.0050	07/28/16 01:54	
Bromochloromethane	mg/kg	ND	0.0050	07/28/16 01:54	
Bromodichloromethane	mg/kg	ND	0.0050	07/28/16 01:54	
Bromoform	mg/kg	ND	0.0050	07/28/16 01:54	
Bromomethane	mg/kg	ND	0.0050	07/28/16 01:54	
Carbon disulfide	mg/kg	ND	0.010	07/28/16 01:54	
Carbon tetrachloride	mg/kg	ND	0.0050	07/28/16 01:54	
Chlorobenzene	mg/kg	ND	0.0050	07/28/16 01:54	
Chloroethane	mg/kg	ND	0.0050	07/28/16 01:54	
Chloroform	mg/kg	ND	0.0050	07/28/16 01:54	
Chloromethane	mg/kg	ND	0.0050	07/28/16 01:54	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	07/28/16 01:54	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50149910

METHOD BLANK: 1592881

Matrix: Solid

Associated Lab Samples: 50149910001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	07/28/16 01:54	
Dibromochloromethane	mg/kg	ND	0.0050	07/28/16 01:54	
Dibromomethane	mg/kg	ND	0.0050	07/28/16 01:54	
Dichlorodifluoromethane	mg/kg	ND	0.0050	07/28/16 01:54	
Ethyl methacrylate	mg/kg	ND	0.10	07/28/16 01:54	
Ethylbenzene	mg/kg	ND	0.0050	07/28/16 01:54	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	07/28/16 01:54	
Iodomethane	mg/kg	ND	0.10	07/28/16 01:54	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	07/28/16 01:54	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	07/28/16 01:54	
Methylene Chloride	mg/kg	ND	0.020	07/28/16 01:54	
n-Butylbenzene	mg/kg	ND	0.0050	07/28/16 01:54	
n-Hexane	mg/kg	ND	0.0050	07/28/16 01:54	
n-Propylbenzene	mg/kg	ND	0.0050	07/28/16 01:54	
Naphthalene	mg/kg	ND	0.0050	07/28/16 01:54	
p-Isopropyltoluene	mg/kg	ND	0.0050	07/28/16 01:54	
sec-Butylbenzene	mg/kg	ND	0.0050	07/28/16 01:54	
Styrene	mg/kg	ND	0.0050	07/28/16 01:54	
tert-Butylbenzene	mg/kg	ND	0.0050	07/28/16 01:54	
Tetrachloroethene	mg/kg	ND	0.0050	07/28/16 01:54	
Toluene	mg/kg	ND	0.0050	07/28/16 01:54	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	07/28/16 01:54	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	07/28/16 01:54	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	07/28/16 01:54	
Trichloroethene	mg/kg	ND	0.0050	07/28/16 01:54	
Trichlorofluoromethane	mg/kg	ND	0.0050	07/28/16 01:54	
Vinyl acetate	mg/kg	ND	0.10	07/28/16 01:54	
Vinyl chloride	mg/kg	ND	0.0050	07/28/16 01:54	
Xylene (Total)	mg/kg	ND	0.010	07/28/16 01:54	
4-Bromofluorobenzene (S)	%	99	65-127	07/28/16 01:54	
Dibromofluoromethane (S)	%	109	70-128	07/28/16 01:54	
Toluene-d8 (S)	%	98	72-139	07/28/16 01:54	

LABORATORY CONTROL SAMPLE: 1592882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.046	92	67-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.049	98	67-129	
1,1-Dichloroethene	mg/kg	.05	0.050	100	64-133	
1,2,4-Trimethylbenzene	mg/kg	.05	0.044	89	66-118	
1,2-Dichloropropane	mg/kg	.05	0.046	92	74-119	
Benzene	mg/kg	.05	0.044	89	72-120	
Chlorobenzene	mg/kg	.05	0.046	93	72-115	
Chloroform	mg/kg	.05	0.043	86	66-116	

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QUALITY CONTROL DATA

Project: KMART

Pace Project No.: 50149910

LABORATORY CONTROL SAMPLE: 1592882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	mg/kg	.05	0.048	97	74-115	
Ethylbenzene	mg/kg	.05	0.048	95	70-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.045	89	78-130	
Methyl-tert-butyl ether	mg/kg	.05	0.049	97	68-123	
Naphthalene	mg/kg	.05	0.042	85	63-125	
Tetrachloroethene	mg/kg	.05	0.043	86	66-118	
Toluene	mg/kg	.05	0.046	92	68-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.048	96	71-120	
Trichloroethene	mg/kg	.05	0.047	94	73-120	
Vinyl chloride	mg/kg	.05	0.051	103	54-155	
Xylene (Total)	mg/kg	.15	0.14	91	69-122	
4-Bromofluorobenzene (S)	%			101	65-127	
Dibromofluoromethane (S)	%			95	70-128	
Toluene-d8 (S)	%			108	72-139	

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50149910

QC Batch: 343229 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50149910001

METHOD BLANK: 1589764 Matrix: Solid
Associated Lab Samples: 50149910001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	07/25/16 15:15	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	07/25/16 15:15	
Acenaphthene	mg/kg	ND	0.0050	07/25/16 15:15	
Acenaphthylene	mg/kg	ND	0.0050	07/25/16 15:15	
Anthracene	mg/kg	ND	0.0050	07/25/16 15:15	
Benzo(a)anthracene	mg/kg	ND	0.0050	07/25/16 15:15	
Benzo(a)pyrene	mg/kg	ND	0.0050	07/25/16 15:15	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	07/25/16 15:15	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	07/25/16 15:15	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	07/25/16 15:15	
Chrysene	mg/kg	ND	0.0050	07/25/16 15:15	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	07/25/16 15:15	
Fluoranthene	mg/kg	ND	0.0050	07/25/16 15:15	
Fluorene	mg/kg	ND	0.0050	07/25/16 15:15	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	07/25/16 15:15	
Naphthalene	mg/kg	ND	0.0050	07/25/16 15:15	
Phenanthrene	mg/kg	ND	0.0050	07/25/16 15:15	
Pyrene	mg/kg	ND	0.0050	07/25/16 15:15	
2-Fluorobiphenyl (S)	%	84	25-121	07/25/16 15:15	
p-Terphenyl-d14 (S)	%	101	27-124	07/25/16 15:15	

LABORATORY CONTROL SAMPLE: 1589765

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.25	77	41-109	N2
2-Methylnaphthalene	mg/kg	.33	0.25	76	39-109	
Acenaphthene	mg/kg	.33	0.28	84	44-127	
Acenaphthylene	mg/kg	.33	0.27	80	43-128	
Anthracene	mg/kg	.33	0.29	88	49-131	
Benzo(a)anthracene	mg/kg	.33	0.32	95	52-128	
Benzo(a)pyrene	mg/kg	.33	0.26	77	54-141	
Benzo(b)fluoranthene	mg/kg	.33	0.25	75	50-146	
Benzo(g,h,i)perylene	mg/kg	.33	0.26	77	51-141	
Benzo(k)fluoranthene	mg/kg	.33	0.27	81	55-139	
Chrysene	mg/kg	.33	0.32	97	56-131	
Dibenz(a,h)anthracene	mg/kg	.33	0.25	74	53-142	
Fluoranthene	mg/kg	.33	0.30	89	51-139	
Fluorene	mg/kg	.33	0.28	85	45-131	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.25	74	51-141	
Naphthalene	mg/kg	.33	0.25	76	43-112	

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50149910

LABORATORY CONTROL SAMPLE: 1589765

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.30	91	47-132	
Pyrene	mg/kg	.33	0.33	99	55-130	
2-Fluorobiphenyl (S)	%			76	25-121	
p-Terphenyl-d14 (S)	%			87	27-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589766 1589767

Parameter	Units	50149912002		MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD		
1-Methylnaphthalene	mg/kg	ND	.4	.4	0.29	0.30	72	75	17-118	4	20	N2	
2-Methylnaphthalene	mg/kg	ND	.4	.4	0.28	0.29	70	72	15-118	3	20		
Acenaphthene	mg/kg	ND	.4	.4	0.32	0.32	78	78	21-125	1	20		
Acenaphthylene	mg/kg	ND	.4	.4	0.31	0.32	77	79	21-126	2	20		
Anthracene	mg/kg	ND	.4	.4	0.33	0.31	83	76	15-134	9	20		
Benzo(a)anthracene	mg/kg	ND	.4	.4	0.38	0.35	93	86	14-129	8	20		
Benzo(a)pyrene	mg/kg	ND	.4	.4	0.27	0.25	67	63	10-146	8	20		
Benzo(b)fluoranthene	mg/kg	ND	.4	.4	0.29	0.25	71	62	10-146	14	20		
Benzo(g,h,i)perylene	mg/kg	ND	.4	.4	0.28	0.26	68	63	10-142	7	20		
Benzo(k)fluoranthene	mg/kg	ND	.4	.4	0.28	0.29	70	71	10-147	1	20		
Chrysene	mg/kg	ND	.4	.4	0.34	0.32	84	80	11-140	5	20		
Dibenz(a,h)anthracene	mg/kg	ND	.4	.4	0.27	0.26	67	65	16-136	4	20		
Fluoranthene	mg/kg	ND	.4	.4	0.35	0.33	86	80	10-146	7	20		
Fluorene	mg/kg	ND	.4	.4	0.33	0.33	81	82	20-131	1	20		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.4	.4	0.27	0.25	67	62	10-146	8	20		
Naphthalene	mg/kg	ND	.4	.4	0.30	0.30	73	74	15-126	0	20		
Phenanthrene	mg/kg	ND	.4	.4	0.34	0.32	83	80	10-148	4	20		
Pyrene	mg/kg	ND	.4	.4	0.34	0.32	84	79	14-136	6	20		
2-Fluorobiphenyl (S)	%						70	77	25-121				
p-Terphenyl-d14 (S)	%						74	75	27-124				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589768 1589769

Parameter	Units	50150209023		MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD		
1-Methylnaphthalene	mg/kg	66.0 ug/kg	.4	.4	0.47	0.51	100	110	17-118	8	20	N2	
2-Methylnaphthalene	mg/kg	82.9 ug/kg	.4	.4	0.50	0.54	103	113	15-118	9	20		
Acenaphthene	mg/kg	ND	.4	.4	0.34	0.36	85	88	21-125	3	20		
Acenaphthylene	mg/kg	ND	.4	.4	0.32	0.32	80	78	21-126	2	20		
Anthracene	mg/kg	ND	.4	.4	0.36	0.36	89	89	15-134	1	20		
Benzo(a)anthracene	mg/kg	23.2 ug/kg	.4	.4	0.40	0.43	93	101	14-129	9	20		
Benzo(a)pyrene	mg/kg	ND	.4	.4	0.28	0.32	70	78	10-146	11	20		
Benzo(b)fluoranthene	mg/kg	ND	.4	.4	0.27	0.33	68	81	10-146	18	20		
Benzo(g,h,i)perylene	mg/kg	ND	.4	.4	0.29	0.30	71	73	10-142	3	20		
Benzo(k)fluoranthene	mg/kg	ND	.4	.4	0.31	0.29	77	72	10-147	7	20		

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: KMART

Pace Project No.: 50149910

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589768		1589769		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		50150209023 Result	MS Spike Conc.	MSD Spike Conc.									
Chrysene	mg/kg	20.7 ug/kg	.4	.4	0.37	0.40	86	93	11-140	8	20		
Dibenz(a,h)anthracene	mg/kg	ND	.4	.4	0.28	0.27	69	67	16-136	3	20		
Fluoranthene	mg/kg	27.1 ug/kg	.4	.4	0.37	0.42	84	96	10-146	13	20		
Fluorene	mg/kg	ND	.4	.4	0.36	0.39	89	97	20-131	9	20		
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.4	.4	0.28	0.28	68	69	10-146	2	20		
Naphthalene	mg/kg	36.9 ug/kg	.4	.4	0.34	0.35	76	78	15-126	3	20		
Phenanthrene	mg/kg	38.8 ug/kg	.4	.4	0.41	0.44	91	100	10-148	9	20		
Pyrene	mg/kg	28.8 ug/kg	.4	.4	0.41	0.46	95	107	14-136	11	20		
2-Fluorobiphenyl (S)	%						78	75	25-121				
p-Terphenyl-d14 (S)	%						88	81	27-124				

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50149910

QC Batch: 343778 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50149910001

SAMPLE DUPLICATE: 1591989

Parameter	Units	50149903002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.7	5.3	7	5	R1

SAMPLE DUPLICATE: 1591990

Parameter	Units	50149912002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.1	17.6	2	5	

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.

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QUALIFIERS

Project: KMART
Pace Project No.: 50149910

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above 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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

N2 The lab does not hold TNI accreditation for this parameter.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KMART
Pace Project No.: 50149910

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50149910001	KM-SB-1(026028)	EPA 3050	342981	EPA 6010	343672
50149910001	KM-SB-1(026028)	EPA 3546	343229	EPA 8270 by SIM	343387
50149910001	KM-SB-1(026028)	EPA 8260	344036		
50149910001	KM-SB-1(026028)	SM 2540G	343778		

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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.

Section A
 Required Client Information:
 Company: **Hearthland Environmental Assoc., Inc.**
 Address: **3410 Mishawaka Avenue**
South Bend, IN 46615
 Email To: **nvijay@heartlandenv.com**
 Phone: **574-289-1191** Fax: _____
 Requested Due Date/TAT: **Standard**

Section B
 Required Project Information:
 Report To: **Nivas Vijay**
 Copy To: _____

Section C
 Invoice Information:
 Attention: **Greg Wiegler**
 Company Name: **Symbioat**
 Address: **6799 Washington St #3440**
Milwaukee, WI 53214
 Pace Quote Reference: _____
 Pace Project Manager: _____
 Pace Profile #: _____

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

Page: 1 of 1

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OI WIPE WIP AIR AIR OTHER OT TISSUE TS	Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Requested Analysis Filtered (Y/N)	Pace Project No / Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB						
1		KM-SB-1(026028)			G					
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

ADDITIONAL COMMENTS
 Relinquished By / Affiliation: **John Barnhart** Date: **7/18/16** Time: **18:00**
 Accepted By / Affiliation: **Fed E & K Kel 7-19-16**
 Received on: **7/19/16** Time: **09:30** Temp in °C: **10**
 Custody Sealed Cooler (Y/N): **Y**
 Samples Intact (Y/N): **Y**

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **John R. Barnhart** DATE Signed: **7/18/16**
 SIGNATURE of SAMPLER: *[Signature]*

Sample Condition Upon Receipt



Client Name: Heartland Env. Project # 20149910

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 7836 07573852

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Date/Time 5035A kits placed in freezer
7-19-16 1111

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer 1 2 3 4 5 6 / A B C D E F Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 1.0°C / 1.0°C Ice Visible in Sample Containers: yes no

Temp should be above freezing to 6°C Comments: Date and Initials of person examining contents: Kee 7-19-16

Are samples from West Virginia? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1.
Document any containers out of temp.	
Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>T.C. Kit</u>
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes date/time/ID/Analysis	
All containers needing acid/base pres. have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
exceptions: VOA, coliform, TOC, O&G	
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	
Residual Chlorine Check (SVOC 625 Pest/PCB 608)	11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)	12. Present Absent
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13
Headspace Wisconsin Sulfide <input type="checkbox"/> Yes <input type="checkbox"/> No	14
Trip Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16
Project Manager Review	
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Sufficient Volume: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17.

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 7/21/16

Sample Container Count

CLIENT: Heartland Env.

COC PAGE 1 of 1
 COC ID# _____

Project # SD149910

Bulk

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH >12	
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Container Codes

DG9H	40mL HCL amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

August 04, 2016

Mr. Greg Waggle
Symbiont
6737 W. Washington St.
Suite 3440
Milwaukee, WI 53214

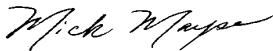
RE: Project: KMART
Pace Project No.: 50150303

Dear Mr. Waggle:

Enclosed are the analytical results for sample(s) received by the laboratory on July 22, 2016. 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,



Mick Mayse
mick.mayse@pacelabs.com
Project Manager

Enclosures



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Not NELAP Accredited
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Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: KMART
Pace Project No.: 50150303

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 0042
Kentucky WW Certification #:98019

Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2014-148
Texas Certification #: T104704355-15-9
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-10-00128

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: KMART

Pace Project No.: 50150303

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50150303001	KM-SB-SB-2 (008-009)	Solid	07/21/16 12:43	07/22/16 08:20
50150303002	KM-SB-SB-3 (008-009)	Solid	07/21/16 13:23	07/22/16 08:20
50150303003	KM-SB-SB-4 (007-008)	Solid	07/21/16 12:25	07/22/16 08:20
50150303004	KM-SB-SB-5 (008-009)	Solid	07/21/16 11:27	07/22/16 08:20
50150303005	KM-SB-SB-6 (008-009)	Solid	07/21/16 11:39	07/22/16 08:20
50150303006	KM-SB-SB-7 (008-009)	Solid	07/21/16 12:00	07/22/16 08:20
50150303007	KM-SB-FD-1	Solid	07/21/16 12:25	07/22/16 08:20
50150303009	TRIP BLANK	Water	07/21/16 08:00	07/22/16 08:20

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SAMPLE ANALYTE COUNT

Project: KMART
Pace Project No.: 50150303

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50150303001	KM-SB-SB-2 (008-009)	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	JLZ	73	PASI-I
		SM 2540G	ESC	1	PASI-I
50150303002	KM-SB-SB-3 (008-009)	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8260	JLZ	73	PASI-I
		SM 2540G	SKK	1	PASI-I
50150303003	KM-SB-SB-4 (007-008)	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8260	JLZ	73	PASI-I
		SM 2540G	SKK	1	PASI-I
50150303004	KM-SB-SB-5 (008-009)	EPA 8082	NPW	8	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8260	JLZ	73	PASI-I
50150303005	KM-SB-SB-6 (008-009)	SM 2540G	SKK	1	PASI-I
		EPA 8082	NPW	8	PASI-I
		EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
50150303006	KM-SB-SB-7 (008-009)	EPA 8260	JLZ	73	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 8082	NPW	8	PASI-I
		EPA 6010	JPK	1	PASI-I
50150303007	KM-SB-FD-1	EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8260	JLZ	73	PASI-I
		SM 2540G	SKK	1	PASI-I
		EPA 6010	JPK	1	PASI-I
50150303009	TRIP BLANK	EPA 8260	JLZ	75	PASI-I

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ANALYTICAL RESULTS

Project: KMART

Pace Project No.: 50150303

Sample: KM-SB-SB-2 (008-009) **Lab ID: 50150303001** Collected: 07/21/16 12:43 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	1.7	mg/kg	1.0	1	07/29/16 07:30	08/02/16 02:11	7439-92-1	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	83-32-9	
Acenaphthylene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	208-96-8	
Anthracene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	207-08-9	
Chrysene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	53-70-3	
Fluoranthene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	206-44-0	
Fluorene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	91-57-6	
Naphthalene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	91-20-3	
Phenanthrene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	85-01-8	
Pyrene	ND	mg/kg	0.0056	1	07/25/16 11:30	07/27/16 05:17	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	68	%	25-121	1	07/25/16 11:30	07/27/16 05:17	321-60-8	
p-Terphenyl-d14 (S)	75	%	27-124	1	07/25/16 11:30	07/27/16 05:17	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.096	1		08/02/16 18:03	67-64-1	
Acrolein	ND	mg/kg	0.096	1		08/02/16 18:03	107-02-8	
Acrylonitrile	ND	mg/kg	0.096	1		08/02/16 18:03	107-13-1	
Benzene	ND	mg/kg	0.0048	1		08/02/16 18:03	71-43-2	
Bromobenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	108-86-1	
Bromochloromethane	ND	mg/kg	0.0048	1		08/02/16 18:03	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0048	1		08/02/16 18:03	75-27-4	
Bromoform	ND	mg/kg	0.0048	1		08/02/16 18:03	75-25-2	
Bromomethane	ND	mg/kg	0.0048	1		08/02/16 18:03	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		08/02/16 18:03	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	98-06-6	
Carbon disulfide	ND	mg/kg	0.0096	1		08/02/16 18:03	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0048	1		08/02/16 18:03	56-23-5	
Chlorobenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	108-90-7	
Chloroethane	ND	mg/kg	0.0048	1		08/02/16 18:03	75-00-3	
Chloroform	ND	mg/kg	0.0048	1		08/02/16 18:03	67-66-3	
Chloromethane	ND	mg/kg	0.0048	1		08/02/16 18:03	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0048	1		08/02/16 18:03	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: KM-SB-SB-2 (008-009) **Lab ID: 50150303001** Collected: 07/21/16 12:43 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	mg/kg	0.0048	1		08/02/16 18:03	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0048	1		08/02/16 18:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	1		08/02/16 18:03	106-93-4	L3
Dibromomethane	ND	mg/kg	0.0048	1		08/02/16 18:03	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.096	1		08/02/16 18:03	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0048	1		08/02/16 18:03	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0048	1		08/02/16 18:03	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0048	1		08/02/16 18:03	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0048	1		08/02/16 18:03	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0048	1		08/02/16 18:03	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	1		08/02/16 18:03	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0048	1		08/02/16 18:03	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0048	1		08/02/16 18:03	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0048	1		08/02/16 18:03	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0048	1		08/02/16 18:03	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	1		08/02/16 18:03	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	1		08/02/16 18:03	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.096	1		08/02/16 18:03	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	1		08/02/16 18:03	87-68-3	
n-Hexane	ND	mg/kg	0.0048	1		08/02/16 18:03	110-54-3	
2-Hexanone	ND	mg/kg	0.096	1		08/02/16 18:03	591-78-6	
Iodomethane	ND	mg/kg	0.096	1		08/02/16 18:03	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1		08/02/16 18:03	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0048	1		08/02/16 18:03	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		08/02/16 18:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		08/02/16 18:03	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1		08/02/16 18:03	1634-04-4	
Naphthalene	ND	mg/kg	0.0048	1		08/02/16 18:03	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	103-65-1	
Styrene	ND	mg/kg	0.0048	1		08/02/16 18:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0048	1		08/02/16 18:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0048	1		08/02/16 18:03	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0048	1		08/02/16 18:03	127-18-4	
Toluene	ND	mg/kg	0.0048	1		08/02/16 18:03	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0048	1		08/02/16 18:03	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0048	1		08/02/16 18:03	79-00-5	
Trichloroethene	ND	mg/kg	0.0048	1		08/02/16 18:03	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0048	1		08/02/16 18:03	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0048	1		08/02/16 18:03	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	95-63-6	

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: KM-SB-SB-2 (008-009) **Lab ID: 50150303001** Collected: 07/21/16 12:43 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1		08/02/16 18:03	108-67-8	
Vinyl acetate	ND	mg/kg	0.096	1		08/02/16 18:03	108-05-4	
Vinyl chloride	ND	mg/kg	0.0048	1		08/02/16 18:03	75-01-4	
Xylene (Total)	ND	mg/kg	0.0096	1		08/02/16 18:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	70-128	1		08/02/16 18:03	1868-53-7	
Toluene-d8 (S)	96	%	72-139	1		08/02/16 18:03	2037-26-5	
4-Bromofluorobenzene (S)	92	%	65-127	1		08/02/16 18:03	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	10.4	%	0.10	1		08/02/16 11:59		

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: KM-SB-SB-3 (008-009) **Lab ID: 50150303002** Collected: 07/21/16 13:23 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	2.2	mg/kg	1.1	1	07/29/16 07:30	08/02/16 02:21	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	83-32-9	
Acenaphthylene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	208-96-8	
Anthracene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	207-08-9	
Chrysene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	53-70-3	
Fluoranthene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	206-44-0	
Fluorene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	91-57-6	
Naphthalene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	91-20-3	
Phenanthrene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	85-01-8	
Pyrene	ND	mg/kg	0.0058	1	07/25/16 11:00	07/27/16 05:49	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	64	%	25-121	1	07/25/16 11:00	07/27/16 05:49	321-60-8	
p-Terphenyl-d14 (S)	66	%	27-124	1	07/25/16 11:00	07/27/16 05:49	1718-51-0	
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	mg/kg	0.10	1		08/02/16 19:39	67-64-1	
Acrolein	ND	mg/kg	0.10	1		08/02/16 19:39	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		08/02/16 19:39	107-13-1	
Benzene	ND	mg/kg	0.0052	1		08/02/16 19:39	71-43-2	
Bromobenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	108-86-1	
Bromochloromethane	ND	mg/kg	0.0052	1		08/02/16 19:39	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0052	1		08/02/16 19:39	75-27-4	
Bromoform	ND	mg/kg	0.0052	1		08/02/16 19:39	75-25-2	
Bromomethane	ND	mg/kg	0.0052	1		08/02/16 19:39	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.026	1		08/02/16 19:39	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		08/02/16 19:39	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0052	1		08/02/16 19:39	56-23-5	
Chlorobenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	108-90-7	
Chloroethane	ND	mg/kg	0.0052	1		08/02/16 19:39	75-00-3	
Chloroform	ND	mg/kg	0.0052	1		08/02/16 19:39	67-66-3	
Chloromethane	ND	mg/kg	0.0052	1		08/02/16 19:39	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0052	1		08/02/16 19:39	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: KM-SB-SB-3 (008-009) Lab ID: 50150303002 Collected: 07/21/16 13:23 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	mg/kg	0.0052	1		08/02/16 19:39	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0052	1		08/02/16 19:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0052	1		08/02/16 19:39	106-93-4	
Dibromomethane	ND	mg/kg	0.0052	1		08/02/16 19:39	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		08/02/16 19:39	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0052	1		08/02/16 19:39	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0052	1		08/02/16 19:39	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0052	1		08/02/16 19:39	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0052	1		08/02/16 19:39	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0052	1		08/02/16 19:39	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0052	1		08/02/16 19:39	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0052	1		08/02/16 19:39	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0052	1		08/02/16 19:39	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0052	1		08/02/16 19:39	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0052	1		08/02/16 19:39	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0052	1		08/02/16 19:39	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0052	1		08/02/16 19:39	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		08/02/16 19:39	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0052	1		08/02/16 19:39	87-68-3	
n-Hexane	ND	mg/kg	0.0052	1		08/02/16 19:39	110-54-3	
2-Hexanone	ND	mg/kg	0.10	1		08/02/16 19:39	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		08/02/16 19:39	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0052	1		08/02/16 19:39	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0052	1		08/02/16 19:39	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		08/02/16 19:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		08/02/16 19:39	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0052	1		08/02/16 19:39	1634-04-4	
Naphthalene	ND	mg/kg	0.0052	1		08/02/16 19:39	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	103-65-1	
Styrene	ND	mg/kg	0.0052	1		08/02/16 19:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0052	1		08/02/16 19:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0052	1		08/02/16 19:39	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0052	1		08/02/16 19:39	127-18-4	
Toluene	ND	mg/kg	0.0052	1		08/02/16 19:39	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0052	1		08/02/16 19:39	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0052	1		08/02/16 19:39	79-00-5	
Trichloroethene	ND	mg/kg	0.0052	1		08/02/16 19:39	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0052	1		08/02/16 19:39	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0052	1		08/02/16 19:39	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	95-63-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KMART

Pace Project No.: 50150303

Sample: KM-SB-SB-3 (008-009) **Lab ID: 50150303002** Collected: 07/21/16 13:23 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	mg/kg	0.0052	1		08/02/16 19:39	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		08/02/16 19:39	108-05-4	
Vinyl chloride	ND	mg/kg	0.0052	1		08/02/16 19:39	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		08/02/16 19:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	70-128	1		08/02/16 19:39	1868-53-7	
Toluene-d8 (S)	96	%	72-139	1		08/02/16 19:39	2037-26-5	
4-Bromofluorobenzene (S)	95	%	65-127	1		08/02/16 19:39	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	14.2	%	0.10	1		08/01/16 15:46		

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ANALYTICAL RESULTS

Project: KMART

Pace Project No.: 50150303

Sample: KM-SB-SB-4 (007-008) Lab ID: 50150303003 Collected: 07/21/16 12:25 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	2.1	mg/kg	1.0	1	07/29/16 07:30	08/02/16 02:27	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	83-32-9	
Acenaphthylene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	208-96-8	
Anthracene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	207-08-9	
Chrysene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	53-70-3	
Fluoranthene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	206-44-0	
Fluorene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	91-57-6	
Naphthalene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	91-20-3	
Phenanthrene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	85-01-8	
Pyrene	ND	mg/kg	0.0056	1	07/25/16 11:00	07/27/16 06:07	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66	%	25-121	1	07/25/16 11:00	07/27/16 06:07	321-60-8	
p-Terphenyl-d14 (S)	66	%	27-124	1	07/25/16 11:00	07/27/16 06:07	1718-51-0	
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	mg/kg	0.10	1		08/02/16 20:11	67-64-1	
Acrolein	ND	mg/kg	0.10	1		08/02/16 20:11	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		08/02/16 20:11	107-13-1	
Benzene	ND	mg/kg	0.0051	1		08/02/16 20:11	71-43-2	
Bromobenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	108-86-1	
Bromochloromethane	ND	mg/kg	0.0051	1		08/02/16 20:11	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0051	1		08/02/16 20:11	75-27-4	
Bromoform	ND	mg/kg	0.0051	1		08/02/16 20:11	75-25-2	
Bromomethane	ND	mg/kg	0.0051	1		08/02/16 20:11	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.026	1		08/02/16 20:11	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		08/02/16 20:11	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0051	1		08/02/16 20:11	56-23-5	
Chlorobenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	108-90-7	
Chloroethane	ND	mg/kg	0.0051	1		08/02/16 20:11	75-00-3	
Chloroform	ND	mg/kg	0.0051	1		08/02/16 20:11	67-66-3	
Chloromethane	ND	mg/kg	0.0051	1		08/02/16 20:11	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0051	1		08/02/16 20:11	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KMART
 Pace Project No.: 50150303

Sample: KM-SB-SB-4 (007-008) **Lab ID: 50150303003** Collected: 07/21/16 12:25 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	mg/kg	0.0051	1		08/02/16 20:11	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0051	1		08/02/16 20:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0051	1		08/02/16 20:11	106-93-4	
Dibromomethane	ND	mg/kg	0.0051	1		08/02/16 20:11	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		08/02/16 20:11	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0051	1		08/02/16 20:11	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0051	1		08/02/16 20:11	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0051	1		08/02/16 20:11	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0051	1		08/02/16 20:11	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0051	1		08/02/16 20:11	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0051	1		08/02/16 20:11	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0051	1		08/02/16 20:11	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0051	1		08/02/16 20:11	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0051	1		08/02/16 20:11	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0051	1		08/02/16 20:11	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0051	1		08/02/16 20:11	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0051	1		08/02/16 20:11	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		08/02/16 20:11	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0051	1		08/02/16 20:11	87-68-3	
n-Hexane	ND	mg/kg	0.0051	1		08/02/16 20:11	110-54-3	
2-Hexanone	ND	mg/kg	0.10	1		08/02/16 20:11	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		08/02/16 20:11	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0051	1		08/02/16 20:11	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0051	1		08/02/16 20:11	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		08/02/16 20:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		08/02/16 20:11	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0051	1		08/02/16 20:11	1634-04-4	
Naphthalene	ND	mg/kg	0.0051	1		08/02/16 20:11	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	103-65-1	
Styrene	ND	mg/kg	0.0051	1		08/02/16 20:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0051	1		08/02/16 20:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0051	1		08/02/16 20:11	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0051	1		08/02/16 20:11	127-18-4	
Toluene	ND	mg/kg	0.0051	1		08/02/16 20:11	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0051	1		08/02/16 20:11	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0051	1		08/02/16 20:11	79-00-5	
Trichloroethene	ND	mg/kg	0.0051	1		08/02/16 20:11	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0051	1		08/02/16 20:11	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0051	1		08/02/16 20:11	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	95-63-6	

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ANALYTICAL RESULTS

Project: KMART

Pace Project No.: 50150303

Sample: KM-SB-SB-4 (007-008) **Lab ID: 50150303003** Collected: 07/21/16 12:25 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	mg/kg	0.0051	1		08/02/16 20:11	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		08/02/16 20:11	108-05-4	
Vinyl chloride	ND	mg/kg	0.0051	1		08/02/16 20:11	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		08/02/16 20:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%	70-128	1		08/02/16 20:11	1868-53-7	
Toluene-d8 (S)	97	%	72-139	1		08/02/16 20:11	2037-26-5	
4-Bromofluorobenzene (S)	93	%	65-127	1		08/02/16 20:11	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	10.3	%	0.10	1		08/01/16 15:46		

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: KM-SB-SB-5 (008-009) **Lab ID: 50150303004** Collected: 07/21/16 11:27 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Solids								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 14:42	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 14:42	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 14:42	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 14:42	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 14:42	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 14:42	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 14:42	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	62	%.	24-99	1	07/25/16 11:45	07/26/16 14:42	877-09-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	3.8	mg/kg	1.0	1	07/29/16 07:30	08/02/16 02:29	7439-92-1	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	83-32-9	
Acenaphthylene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	208-96-8	
Anthracene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	207-08-9	
Chrysene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	53-70-3	
Fluoranthene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	206-44-0	
Fluorene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	91-57-6	
Naphthalene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	91-20-3	
Phenanthrene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	85-01-8	
Pyrene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:24	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	53	%.	25-121	1	07/25/16 11:00	07/27/16 06:24	321-60-8	
p-Terphenyl-d14 (S)	52	%.	27-124	1	07/25/16 11:00	07/27/16 06:24	1718-51-0	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.096	1		08/02/16 20:43	67-64-1	
Acrolein	ND	mg/kg	0.096	1		08/02/16 20:43	107-02-8	
Acrylonitrile	ND	mg/kg	0.096	1		08/02/16 20:43	107-13-1	
Benzene	ND	mg/kg	0.0048	1		08/02/16 20:43	71-43-2	
Bromobenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	108-86-1	
Bromochloromethane	ND	mg/kg	0.0048	1		08/02/16 20:43	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0048	1		08/02/16 20:43	75-27-4	
Bromoform	ND	mg/kg	0.0048	1		08/02/16 20:43	75-25-2	
Bromomethane	ND	mg/kg	0.0048	1		08/02/16 20:43	74-83-9	

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: KM-SB-SB-5 (008-009) **Lab ID: 50150303004** Collected: 07/21/16 11:27 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
2-Butanone (MEK)	ND	mg/kg	0.024	1		08/02/16 20:43	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	98-06-6	
Carbon disulfide	ND	mg/kg	0.0096	1		08/02/16 20:43	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0048	1		08/02/16 20:43	56-23-5	
Chlorobenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	108-90-7	
Chloroethane	ND	mg/kg	0.0048	1		08/02/16 20:43	75-00-3	
Chloroform	ND	mg/kg	0.0048	1		08/02/16 20:43	67-66-3	
Chloromethane	ND	mg/kg	0.0048	1		08/02/16 20:43	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0048	1		08/02/16 20:43	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0048	1		08/02/16 20:43	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0048	1		08/02/16 20:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	1		08/02/16 20:43	106-93-4	L3
Dibromomethane	ND	mg/kg	0.0048	1		08/02/16 20:43	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.096	1		08/02/16 20:43	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0048	1		08/02/16 20:43	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0048	1		08/02/16 20:43	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0048	1		08/02/16 20:43	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0048	1		08/02/16 20:43	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0048	1		08/02/16 20:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	1		08/02/16 20:43	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0048	1		08/02/16 20:43	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0048	1		08/02/16 20:43	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0048	1		08/02/16 20:43	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0048	1		08/02/16 20:43	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	1		08/02/16 20:43	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	1		08/02/16 20:43	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.096	1		08/02/16 20:43	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	1		08/02/16 20:43	87-68-3	
n-Hexane	ND	mg/kg	0.0048	1		08/02/16 20:43	110-54-3	
2-Hexanone	ND	mg/kg	0.096	1		08/02/16 20:43	591-78-6	
Iodomethane	ND	mg/kg	0.096	1		08/02/16 20:43	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1		08/02/16 20:43	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0048	1		08/02/16 20:43	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		08/02/16 20:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		08/02/16 20:43	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1		08/02/16 20:43	1634-04-4	
Naphthalene	ND	mg/kg	0.0048	1		08/02/16 20:43	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	103-65-1	
Styrene	ND	mg/kg	0.0048	1		08/02/16 20:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0048	1		08/02/16 20:43	630-20-6	

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: KM-SB-SB-5 (008-009) **Lab ID: 50150303004** Collected: 07/21/16 11:27 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0048	1		08/02/16 20:43	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0048	1		08/02/16 20:43	127-18-4	
Toluene	ND	mg/kg	0.0048	1		08/02/16 20:43	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0048	1		08/02/16 20:43	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0048	1		08/02/16 20:43	79-00-5	
Trichloroethene	ND	mg/kg	0.0048	1		08/02/16 20:43	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0048	1		08/02/16 20:43	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0048	1		08/02/16 20:43	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1		08/02/16 20:43	108-67-8	
Vinyl acetate	ND	mg/kg	0.096	1		08/02/16 20:43	108-05-4	
Vinyl chloride	ND	mg/kg	0.0048	1		08/02/16 20:43	75-01-4	
Xylene (Total)	ND	mg/kg	0.0096	1		08/02/16 20:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	70-128	1		08/02/16 20:43	1868-53-7	
Toluene-d8 (S)	102	%	72-139	1		08/02/16 20:43	2037-26-5	
4-Bromofluorobenzene (S)	83	%	65-127	1		08/02/16 20:43	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	13.5	%	0.10	1		08/01/16 15:46		

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: KM-SB-SB-6 (008-009) **Lab ID: 50150303005** Collected: 07/21/16 11:39 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Solids								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 15:06	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 15:06	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 15:06	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 15:06	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 15:06	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 15:06	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	115	1	07/25/16 11:45	07/26/16 15:06	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	75	%.	24-99	1	07/25/16 11:45	07/26/16 15:06	877-09-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	1.9	mg/kg	1.0	1	07/29/16 07:30	08/02/16 02:31	7439-92-1	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	83-32-9	
Acenaphthylene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	208-96-8	
Anthracene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	207-08-9	
Chrysene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	53-70-3	
Fluoranthene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	206-44-0	
Fluorene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	91-57-6	
Naphthalene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	91-20-3	
Phenanthrene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	85-01-8	
Pyrene	ND	mg/kg	0.0057	1	07/25/16 11:00	07/27/16 06:42	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73	%.	25-121	1	07/25/16 11:00	07/27/16 06:42	321-60-8	
p-Terphenyl-d14 (S)	81	%.	27-124	1	07/25/16 11:00	07/27/16 06:42	1718-51-0	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.11	1		08/03/16 12:14	67-64-1	
Acrolein	ND	mg/kg	0.11	1		08/03/16 12:14	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		08/03/16 12:14	107-13-1	
Benzene	ND	mg/kg	0.0053	1		08/03/16 12:14	71-43-2	
Bromobenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	108-86-1	
Bromochloromethane	ND	mg/kg	0.0053	1		08/03/16 12:14	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0053	1		08/03/16 12:14	75-27-4	
Bromoform	ND	mg/kg	0.0053	1		08/03/16 12:14	75-25-2	
Bromomethane	ND	mg/kg	0.0053	1		08/03/16 12:14	74-83-9	

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ANALYTICAL RESULTS

Project: KMART

Pace Project No.: 50150303

Sample: KM-SB-SB-6 (008-009) **Lab ID: 50150303005** Collected: 07/21/16 11:39 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
2-Butanone (MEK)	ND	mg/kg	0.026	1		08/03/16 12:14	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		08/03/16 12:14	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0053	1		08/03/16 12:14	56-23-5	
Chlorobenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	108-90-7	
Chloroethane	ND	mg/kg	0.0053	1		08/03/16 12:14	75-00-3	
Chloroform	ND	mg/kg	0.0053	1		08/03/16 12:14	67-66-3	
Chloromethane	ND	mg/kg	0.0053	1		08/03/16 12:14	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0053	1		08/03/16 12:14	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0053	1		08/03/16 12:14	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0053	1		08/03/16 12:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0053	1		08/03/16 12:14	106-93-4	
Dibromomethane	ND	mg/kg	0.0053	1		08/03/16 12:14	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		08/03/16 12:14	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0053	1		08/03/16 12:14	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0053	1		08/03/16 12:14	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0053	1		08/03/16 12:14	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0053	1		08/03/16 12:14	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0053	1		08/03/16 12:14	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0053	1		08/03/16 12:14	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0053	1		08/03/16 12:14	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0053	1		08/03/16 12:14	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0053	1		08/03/16 12:14	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0053	1		08/03/16 12:14	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0053	1		08/03/16 12:14	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0053	1		08/03/16 12:14	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		08/03/16 12:14	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0053	1		08/03/16 12:14	87-68-3	
n-Hexane	ND	mg/kg	0.0053	1		08/03/16 12:14	110-54-3	
2-Hexanone	ND	mg/kg	0.11	1		08/03/16 12:14	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		08/03/16 12:14	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0053	1		08/03/16 12:14	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0053	1		08/03/16 12:14	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		08/03/16 12:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		08/03/16 12:14	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0053	1		08/03/16 12:14	1634-04-4	
Naphthalene	ND	mg/kg	0.0053	1		08/03/16 12:14	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	103-65-1	
Styrene	ND	mg/kg	0.0053	1		08/03/16 12:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0053	1		08/03/16 12:14	630-20-6	

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: KM-SB-SB-6 (008-009) **Lab ID: 50150303005** Collected: 07/21/16 11:39 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0053	1		08/03/16 12:14	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0053	1		08/03/16 12:14	127-18-4	
Toluene	ND	mg/kg	0.0053	1		08/03/16 12:14	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0053	1		08/03/16 12:14	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0053	1		08/03/16 12:14	79-00-5	
Trichloroethene	ND	mg/kg	0.0053	1		08/03/16 12:14	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0053	1		08/03/16 12:14	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0053	1		08/03/16 12:14	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0053	1		08/03/16 12:14	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		08/03/16 12:14	108-05-4	
Vinyl chloride	ND	mg/kg	0.0053	1		08/03/16 12:14	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		08/03/16 12:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	70-128	1		08/03/16 12:14	1868-53-7	
Toluene-d8 (S)	97	%	72-139	1		08/03/16 12:14	2037-26-5	
4-Bromofluorobenzene (S)	93	%	65-127	1		08/03/16 12:14	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	13.1	%	0.10	1		08/01/16 15:46		

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: **KM-SB-SB-7 (008-009)** Lab ID: **50150303006** Collected: 07/21/16 12:00 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Solids								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	109	1	07/25/16 11:45	07/26/16 15:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	109	1	07/25/16 11:45	07/26/16 15:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	109	1	07/25/16 11:45	07/26/16 15:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	109	1	07/25/16 11:45	07/26/16 15:31	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	109	1	07/25/16 11:45	07/26/16 15:31	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	109	1	07/25/16 11:45	07/26/16 15:31	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	109	1	07/25/16 11:45	07/26/16 15:31	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	53	%.	24-99	1	07/25/16 11:45	07/26/16 15:31	877-09-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	2.9	mg/kg	1.0	1	07/29/16 07:30	08/02/16 02:33	7439-92-1	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	83-32-9	
Acenaphthylene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	208-96-8	
Anthracene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	207-08-9	
Chrysene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	53-70-3	
Fluoranthene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	206-44-0	
Fluorene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	91-57-6	
Naphthalene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	91-20-3	
Phenanthrene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	85-01-8	
Pyrene	ND	mg/kg	0.0054	1	07/25/16 11:00	07/27/16 07:34	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	70	%.	25-121	1	07/25/16 11:00	07/27/16 07:34	321-60-8	
p-Terphenyl-d14 (S)	73	%.	27-124	1	07/25/16 11:00	07/27/16 07:34	1718-51-0	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.099	1		08/02/16 21:47	67-64-1	
Acrolein	ND	mg/kg	0.099	1		08/02/16 21:47	107-02-8	
Acrylonitrile	ND	mg/kg	0.099	1		08/02/16 21:47	107-13-1	
Benzene	ND	mg/kg	0.0049	1		08/02/16 21:47	71-43-2	
Bromobenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	108-86-1	
Bromochloromethane	ND	mg/kg	0.0049	1		08/02/16 21:47	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0049	1		08/02/16 21:47	75-27-4	
Bromoform	ND	mg/kg	0.0049	1		08/02/16 21:47	75-25-2	
Bromomethane	ND	mg/kg	0.0049	1		08/02/16 21:47	74-83-9	

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ANALYTICAL RESULTS

Project: KMART

Project No.: 50150303

Sample: KM-SB-SB-7 (008-009) **Lab ID: 50150303006** Collected: 07/21/16 12:00 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
2-Butanone (MEK)	ND	mg/kg	0.025	1		08/02/16 21:47	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	98-06-6	
Carbon disulfide	ND	mg/kg	0.0099	1		08/02/16 21:47	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0049	1		08/02/16 21:47	56-23-5	
Chlorobenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	108-90-7	
Chloroethane	ND	mg/kg	0.0049	1		08/02/16 21:47	75-00-3	
Chloroform	ND	mg/kg	0.0049	1		08/02/16 21:47	67-66-3	
Chloromethane	ND	mg/kg	0.0049	1		08/02/16 21:47	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0049	1		08/02/16 21:47	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0049	1		08/02/16 21:47	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0049	1		08/02/16 21:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0049	1		08/02/16 21:47	106-93-4	L3
Dibromomethane	ND	mg/kg	0.0049	1		08/02/16 21:47	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.099	1		08/02/16 21:47	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0049	1		08/02/16 21:47	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0049	1		08/02/16 21:47	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0049	1		08/02/16 21:47	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0049	1		08/02/16 21:47	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0049	1		08/02/16 21:47	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0049	1		08/02/16 21:47	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0049	1		08/02/16 21:47	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0049	1		08/02/16 21:47	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0049	1		08/02/16 21:47	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0049	1		08/02/16 21:47	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0049	1		08/02/16 21:47	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0049	1		08/02/16 21:47	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.099	1		08/02/16 21:47	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0049	1		08/02/16 21:47	87-68-3	
n-Hexane	ND	mg/kg	0.0049	1		08/02/16 21:47	110-54-3	
2-Hexanone	ND	mg/kg	0.099	1		08/02/16 21:47	591-78-6	
Iodomethane	ND	mg/kg	0.099	1		08/02/16 21:47	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0049	1		08/02/16 21:47	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0049	1		08/02/16 21:47	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		08/02/16 21:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		08/02/16 21:47	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0049	1		08/02/16 21:47	1634-04-4	
Naphthalene	ND	mg/kg	0.0049	1		08/02/16 21:47	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	103-65-1	
Styrene	ND	mg/kg	0.0049	1		08/02/16 21:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0049	1		08/02/16 21:47	630-20-6	

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: **KM-SB-SB-7 (008-009)** Lab ID: **50150303006** Collected: 07/21/16 12:00 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0049	1		08/02/16 21:47	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0049	1		08/02/16 21:47	127-18-4	
Toluene	ND	mg/kg	0.0049	1		08/02/16 21:47	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0049	1		08/02/16 21:47	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0049	1		08/02/16 21:47	79-00-5	
Trichloroethene	ND	mg/kg	0.0049	1		08/02/16 21:47	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0049	1		08/02/16 21:47	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0049	1		08/02/16 21:47	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0049	1		08/02/16 21:47	108-67-8	
Vinyl acetate	ND	mg/kg	0.099	1		08/02/16 21:47	108-05-4	
Vinyl chloride	ND	mg/kg	0.0049	1		08/02/16 21:47	75-01-4	
Xylene (Total)	ND	mg/kg	0.0099	1		08/02/16 21:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%	70-128	1		08/02/16 21:47	1868-53-7	
Toluene-d8 (S)	100	%	72-139	1		08/02/16 21:47	2037-26-5	
4-Bromofluorobenzene (S)	87	%	65-127	1		08/02/16 21:47	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	8.8	%	0.10	1		08/01/16 15:46		

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ANALYTICAL RESULTS

Project: K MART
Pace Project No.: 50150303

Sample: KM-SB-FD-1 **Lab ID: 50150303007** Collected: 07/21/16 12:25 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	1.6	mg/kg	1.1	1	07/29/16 07:30	08/02/16 02:35	7439-92-1	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	83-32-9	
Acenaphthylene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	208-96-8	
Anthracene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	207-08-9	
Chrysene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	53-70-3	
Fluoranthene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	206-44-0	
Fluorene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	91-57-6	
Naphthalene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	91-20-3	
Phenanthrene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	85-01-8	
Pyrene	ND	mg/kg	0.0060	1	07/25/16 11:00	07/27/16 07:51	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	46	%	25-121	1	07/25/16 11:00	07/27/16 07:51	321-60-8	
p-Terphenyl-d14 (S)	53	%	27-124	1	07/25/16 11:00	07/27/16 07:51	1718-51-0	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	mg/kg	0.099	1		08/02/16 22:19	67-64-1	
Acrolein	ND	mg/kg	0.099	1		08/02/16 22:19	107-02-8	
Acrylonitrile	ND	mg/kg	0.099	1		08/02/16 22:19	107-13-1	
Benzene	ND	mg/kg	0.0049	1		08/02/16 22:19	71-43-2	
Bromobenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	108-86-1	
Bromochloromethane	ND	mg/kg	0.0049	1		08/02/16 22:19	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0049	1		08/02/16 22:19	75-27-4	
Bromoform	ND	mg/kg	0.0049	1		08/02/16 22:19	75-25-2	
Bromomethane	ND	mg/kg	0.0049	1		08/02/16 22:19	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		08/02/16 22:19	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	98-06-6	
Carbon disulfide	ND	mg/kg	0.0099	1		08/02/16 22:19	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0049	1		08/02/16 22:19	56-23-5	
Chlorobenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	108-90-7	
Chloroethane	ND	mg/kg	0.0049	1		08/02/16 22:19	75-00-3	
Chloroform	ND	mg/kg	0.0049	1		08/02/16 22:19	67-66-3	
Chloromethane	ND	mg/kg	0.0049	1		08/02/16 22:19	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0049	1		08/02/16 22:19	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: KM-SB-FD-1 **Lab ID: 50150303007** Collected: 07/21/16 12:25 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	mg/kg	0.0049	1		08/02/16 22:19	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0049	1		08/02/16 22:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0049	1		08/02/16 22:19	106-93-4	L3
Dibromomethane	ND	mg/kg	0.0049	1		08/02/16 22:19	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.099	1		08/02/16 22:19	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0049	1		08/02/16 22:19	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0049	1		08/02/16 22:19	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0049	1		08/02/16 22:19	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0049	1		08/02/16 22:19	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0049	1		08/02/16 22:19	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0049	1		08/02/16 22:19	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0049	1		08/02/16 22:19	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0049	1		08/02/16 22:19	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0049	1		08/02/16 22:19	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0049	1		08/02/16 22:19	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0049	1		08/02/16 22:19	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0049	1		08/02/16 22:19	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.099	1		08/02/16 22:19	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0049	1		08/02/16 22:19	87-68-3	
n-Hexane	ND	mg/kg	0.0049	1		08/02/16 22:19	110-54-3	
2-Hexanone	ND	mg/kg	0.099	1		08/02/16 22:19	591-78-6	
Iodomethane	ND	mg/kg	0.099	1		08/02/16 22:19	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0049	1		08/02/16 22:19	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0049	1		08/02/16 22:19	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		08/02/16 22:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		08/02/16 22:19	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0049	1		08/02/16 22:19	1634-04-4	
Naphthalene	ND	mg/kg	0.0049	1		08/02/16 22:19	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	103-65-1	
Styrene	ND	mg/kg	0.0049	1		08/02/16 22:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0049	1		08/02/16 22:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0049	1		08/02/16 22:19	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0049	1		08/02/16 22:19	127-18-4	
Toluene	ND	mg/kg	0.0049	1		08/02/16 22:19	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0049	1		08/02/16 22:19	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0049	1		08/02/16 22:19	79-00-5	
Trichloroethene	ND	mg/kg	0.0049	1		08/02/16 22:19	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0049	1		08/02/16 22:19	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0049	1		08/02/16 22:19	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	95-63-6	

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: KM-SB-FD-1 **Lab ID: 50150303007** Collected: 07/21/16 12:25 Received: 07/22/16 08:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	mg/kg	0.0049	1		08/02/16 22:19	108-67-8	
Vinyl acetate	ND	mg/kg	0.099	1		08/02/16 22:19	108-05-4	
Vinyl chloride	ND	mg/kg	0.0049	1		08/02/16 22:19	75-01-4	
Xylene (Total)	ND	mg/kg	0.0099	1		08/02/16 22:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	70-128	1		08/02/16 22:19	1868-53-7	
Toluene-d8 (S)	96	%	72-139	1		08/02/16 22:19	2037-26-5	
4-Bromofluorobenzene (S)	94	%	65-127	1		08/02/16 22:19	460-00-4	
Percent Moisture		Analytical Method: SM 2540G						
Percent Moisture	17.5	%	0.10	1		08/01/16 15:46		

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: TRIP BLANK	Lab ID: 50150303009	Collected: 07/21/16 08:00	Received: 07/22/16 08:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		08/02/16 22:03	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/02/16 22:03	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/02/16 22:03	107-13-1	
Benzene	ND	ug/L	5.0	1		08/02/16 22:03	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/02/16 22:03	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/02/16 22:03	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/02/16 22:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/02/16 22:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/02/16 22:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/02/16 22:03	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/02/16 22:03	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/02/16 22:03	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/02/16 22:03	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/02/16 22:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/02/16 22:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/02/16 22:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/02/16 22:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/02/16 22:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/02/16 22:03	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 22:03	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 22:03	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/02/16 22:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/02/16 22:03	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/02/16 22:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 22:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 22:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 22:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/02/16 22:03	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/02/16 22:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/02/16 22:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/02/16 22:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/02/16 22:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 22:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 22:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 22:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/02/16 22:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 22:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/02/16 22:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 22:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 22:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/02/16 22:03	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/02/16 22:03	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/02/16 22:03	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/02/16 22:03	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		08/02/16 22:03	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/02/16 22:03	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/02/16 22:03	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KMART
Pace Project No.: 50150303

Sample: TRIP BLANK	Lab ID: 50150303009	Collected: 07/21/16 08:00	Received: 07/22/16 08:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		08/02/16 22:03	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/02/16 22:03	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		08/02/16 22:03	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		08/02/16 22:03	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/02/16 22:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/02/16 22:03	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		08/02/16 22:03	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/02/16 22:03	103-65-1	
Styrene	ND	ug/L	5.0	1		08/02/16 22:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 22:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 22:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/02/16 22:03	127-18-4	
Toluene	ND	ug/L	5.0	1		08/02/16 22:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 22:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 22:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/02/16 22:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/02/16 22:03	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/02/16 22:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/02/16 22:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/02/16 22:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 22:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 22:03	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		08/02/16 22:03	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/02/16 22:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/02/16 22:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	84-118	1		08/02/16 22:03	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	79-116	1		08/02/16 22:03	460-00-4	
Toluene-d8 (S)	95	%.	86-110	1		08/02/16 22:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: K MART
Pace Project No.: 50150303

QC Batch: 343473 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50150303001, 50150303002, 50150303003, 50150303004, 50150303005, 50150303006, 50150303007

METHOD BLANK: 1591009 Matrix: Solid
Associated Lab Samples: 50150303001, 50150303002, 50150303003, 50150303004, 50150303005, 50150303006, 50150303007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	08/02/16 02:07	

LABORATORY CONTROL SAMPLE: 1591010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591011 1591012

Parameter	Units	1591011		1591012		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50150303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Lead	mg/kg	1.7	54.5	55	51.1	50.8	91	89	75-125	1	20

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

QC Batch: 344873 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50150303009

METHOD BLANK: 1596457 Matrix: Water
Associated Lab Samples: 50150303009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/02/16 15:38	
1,1,1-Trichloroethane	ug/L	ND	5.0	08/02/16 15:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	08/02/16 15:38	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/02/16 15:38	
1,1-Dichloroethane	ug/L	ND	5.0	08/02/16 15:38	
1,1-Dichloroethene	ug/L	ND	5.0	08/02/16 15:38	
1,1-Dichloropropene	ug/L	ND	5.0	08/02/16 15:38	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	08/02/16 15:38	
1,2,3-Trichloropropane	ug/L	ND	5.0	08/02/16 15:38	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	08/02/16 15:38	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	08/02/16 15:38	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	08/02/16 15:38	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/02/16 15:38	
1,2-Dichloroethane	ug/L	ND	5.0	08/02/16 15:38	
1,2-Dichloropropane	ug/L	ND	5.0	08/02/16 15:38	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	08/02/16 15:38	
1,3-Dichlorobenzene	ug/L	ND	5.0	08/02/16 15:38	
1,3-Dichloropropane	ug/L	ND	5.0	08/02/16 15:38	
1,4-Dichlorobenzene	ug/L	ND	5.0	08/02/16 15:38	
1-Methylnaphthalene	ug/L	ND	5.0	08/02/16 15:38	N2
2,2-Dichloropropane	ug/L	ND	5.0	08/02/16 15:38	
2-Butanone (MEK)	ug/L	ND	25.0	08/02/16 15:38	
2-Chlorotoluene	ug/L	ND	5.0	08/02/16 15:38	
2-Hexanone	ug/L	ND	25.0	08/02/16 15:38	
2-Methylnaphthalene	ug/L	ND	10.0	08/02/16 15:38	
4-Chlorotoluene	ug/L	ND	5.0	08/02/16 15:38	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	08/02/16 15:38	
Acetone	ug/L	ND	100	08/02/16 15:38	
Acrolein	ug/L	ND	50.0	08/02/16 15:38	
Acrylonitrile	ug/L	ND	100	08/02/16 15:38	
Benzene	ug/L	ND	5.0	08/02/16 15:38	
Bromobenzene	ug/L	ND	5.0	08/02/16 15:38	
Bromochloromethane	ug/L	ND	5.0	08/02/16 15:38	
Bromodichloromethane	ug/L	ND	5.0	08/02/16 15:38	
Bromoform	ug/L	ND	5.0	08/02/16 15:38	
Bromomethane	ug/L	ND	5.0	08/02/16 15:38	
Carbon disulfide	ug/L	ND	10.0	08/02/16 15:38	
Carbon tetrachloride	ug/L	ND	5.0	08/02/16 15:38	
Chlorobenzene	ug/L	ND	5.0	08/02/16 15:38	
Chloroethane	ug/L	ND	5.0	08/02/16 15:38	
Chloroform	ug/L	ND	5.0	08/02/16 15:38	

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

METHOD BLANK: 1596457

Matrix: Water

Associated Lab Samples: 50150303009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	08/02/16 15:38	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/02/16 15:38	
cis-1,3-Dichloropropene	ug/L	ND	5.0	08/02/16 15:38	
Dibromochloromethane	ug/L	ND	5.0	08/02/16 15:38	
Dibromomethane	ug/L	ND	5.0	08/02/16 15:38	
Dichlorodifluoromethane	ug/L	ND	5.0	08/02/16 15:38	
Ethyl methacrylate	ug/L	ND	100	08/02/16 15:38	
Ethylbenzene	ug/L	ND	5.0	08/02/16 15:38	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	08/02/16 15:38	
Iodomethane	ug/L	ND	10.0	08/02/16 15:38	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	08/02/16 15:38	
Methyl-tert-butyl ether	ug/L	ND	4.0	08/02/16 15:38	
Methylene Chloride	ug/L	ND	5.0	08/02/16 15:38	
n-Butylbenzene	ug/L	ND	5.0	08/02/16 15:38	
n-Hexane	ug/L	ND	5.0	08/02/16 15:38	
n-Propylbenzene	ug/L	ND	5.0	08/02/16 15:38	
Naphthalene	ug/L	ND	1.7	08/02/16 15:38	
p-Isopropyltoluene	ug/L	ND	5.0	08/02/16 15:38	
sec-Butylbenzene	ug/L	ND	5.0	08/02/16 15:38	
Styrene	ug/L	ND	5.0	08/02/16 15:38	
tert-Butylbenzene	ug/L	ND	5.0	08/02/16 15:38	
Tetrachloroethene	ug/L	ND	5.0	08/02/16 15:38	
Toluene	ug/L	ND	5.0	08/02/16 15:38	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/02/16 15:38	
trans-1,3-Dichloropropene	ug/L	ND	5.0	08/02/16 15:38	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/02/16 15:38	
Trichloroethene	ug/L	ND	5.0	08/02/16 15:38	
Trichlorofluoromethane	ug/L	ND	5.0	08/02/16 15:38	
Vinyl acetate	ug/L	ND	50.0	08/02/16 15:38	
Vinyl chloride	ug/L	ND	2.0	08/02/16 15:38	
Xylene (Total)	ug/L	ND	10.0	08/02/16 15:38	
4-Bromofluorobenzene (S)	%	96	79-116	08/02/16 15:38	
Dibromofluoromethane (S)	%	90	84-118	08/02/16 15:38	
Toluene-d8 (S)	%	97	86-110	08/02/16 15:38	

LABORATORY CONTROL SAMPLE: 1596458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.8	104	74-130	
1,1,1-Trichloroethane	ug/L	50	45.8	92	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	52.0	104	72-124	
1,1,2-Trichloroethane	ug/L	50	49.8	100	75-125	
1,1-Dichloroethane	ug/L	50	47.6	95	70-120	
1,1-Dichloroethene	ug/L	50	44.2	88	69-127	

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

LABORATORY CONTROL SAMPLE: 1596458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	48.1	96	81-129	
1,2,3-Trichlorobenzene	ug/L	50	51.8	104	71-130	
1,2,3-Trichloropropane	ug/L	50	49.7	99	77-127	
1,2,4-Trichlorobenzene	ug/L	50	51.9	104	66-126	
1,2,4-Trimethylbenzene	ug/L	50	53.0	106	73-125	
1,2-Dibromoethane (EDB)	ug/L	50	53.1	106	76-125	
1,2-Dichlorobenzene	ug/L	50	48.4	97	77-122	
1,2-Dichloroethane	ug/L	50	40.9	82	70-123	
1,2-Dichloropropane	ug/L	50	50.3	101	77-124	
1,3,5-Trimethylbenzene	ug/L	50	52.3	105	75-124	
1,3-Dichlorobenzene	ug/L	50	51.4	103	76-124	
1,3-Dichloropropane	ug/L	50	50.4	101	77-123	
1,4-Dichlorobenzene	ug/L	50	50.5	101	75-117	
1-Methylnaphthalene	ug/L	50	52.0	104	55-151	N2
2,2-Dichloropropane	ug/L	50	47.2	94	44-147	
2-Butanone (MEK)	ug/L	250	228	91	60-135	
2-Chlorotoluene	ug/L	50	51.2	102	75-124	
2-Hexanone	ug/L	250	207	83	65-139	
2-Methylnaphthalene	ug/L	50	46.1	92	58-148	
4-Chlorotoluene	ug/L	50	51.2	102	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	207	83	66-134	
Acetone	ug/L	250	154	62	47-144	
Acrolein	ug/L	1000	1040	104	31-200	
Acrylonitrile	ug/L	200	175	87	64-133	
Benzene	ug/L	50	52.1	104	76-122	
Bromobenzene	ug/L	50	49.7	99	75-117	
Bromochloromethane	ug/L	50	42.7	85	74-134	
Bromodichloromethane	ug/L	50	47.1	94	71-124	
Bromoform	ug/L	50	42.6	85	60-125	
Bromomethane	ug/L	50	41.3	83	23-194	
Carbon disulfide	ug/L	50	44.0	88	63-130	
Carbon tetrachloride	ug/L	50	45.3	91	73-133	
Chlorobenzene	ug/L	50	53.2	106	76-118	
Chloroethane	ug/L	50	40.1	80	50-147	
Chloroform	ug/L	50	44.7	89	70-119	
Chloromethane	ug/L	50	28.9	58	52-136	
cis-1,2-Dichloroethene	ug/L	50	54.0	108	74-120	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	71-134	
Dibromochloromethane	ug/L	50	47.5	95	73-127	
Dibromomethane	ug/L	50	49.9	100	75-124	
Dichlorodifluoromethane	ug/L	50	53.8	108	39-166	
Ethyl methacrylate	ug/L	200	215	107	73-136	
Ethylbenzene	ug/L	50	55.1	110	75-123	
Hexachloro-1,3-butadiene	ug/L	50	55.5	111	70-125	
Iodomethane	ug/L	100	94.5	95	56-142	
Isopropylbenzene (Cumene)	ug/L	50	55.6	111	84-134	
Methyl-tert-butyl ether	ug/L	50	45.0	90	65-131	

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

LABORATORY CONTROL SAMPLE: 1596458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	50	47.7	95	66-130	
n-Butylbenzene	ug/L	50	51.0	102	70-127	
n-Hexane	ug/L	50	49.0	98	64-131	
n-Propylbenzene	ug/L	50	52.9	106	78-131	
Naphthalene	ug/L	50	51.9	104	65-134	
p-Isopropyltoluene	ug/L	50	53.9	108	75-124	
sec-Butylbenzene	ug/L	50	54.7	109	83-135	
Styrene	ug/L	50	55.0	110	78-128	
tert-Butylbenzene	ug/L	50	43.3	87	62-114	
Tetrachloroethene	ug/L	50	51.4	103	69-119	
Toluene	ug/L	50	48.9	98	74-122	
trans-1,2-Dichloroethene	ug/L	50	52.6	105	72-122	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	184	92	39-153	
Trichloroethene	ug/L	50	50.9	102	75-123	
Trichlorofluoromethane	ug/L	50	46.7	93	58-148	
Vinyl acetate	ug/L	200	205	102	67-154	
Vinyl chloride	ug/L	50	43.4	87	61-147	
Xylene (Total)	ug/L	150	163	109	75-127	
4-Bromofluorobenzene (S)	%			97	79-116	
Dibromofluoromethane (S)	%			90	84-118	
Toluene-d8 (S)	%			100	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1595784 1595785

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50150409006 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	30.9	34.2	62	68	44-142	10	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	35.7	38.2	71	76	51-140	7	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.0	48.7	92	97	49-138	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	41.5	44.2	83	88	51-138	6	20	
1,1-Dichloroethane	ug/L	ND	50	50	39.5	43.6	79	87	48-137	10	20	
1,1-Dichloroethene	ug/L	ND	50	50	35.2	37.3	70	75	51-144	6	20	
1,1-Dichloropropene	ug/L	ND	50	50	30.2	32.4	60	65	54-150	7	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	18.2	17.4	36	35	32-140	4	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	43.3	51.6	87	103	51-139	17	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	13.8	13.5	28	27	27-134	2	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	11.4	10.6	22	21	32-143	7	20	M1
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	41.6	47.8	83	96	52-134	14	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	17.4	16.8	35	34	38-138	4	20	M1
1,2-Dichloroethane	ug/L	ND	50	50	35.1	38.5	70	77	44-144	9	20	
1,2-Dichloropropane	ug/L	ND	50	50	39.5	43.2	79	86	56-138	9	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	11.0	10.4	22	21	28-146	5	20	M1
1,3-Dichlorobenzene	ug/L	ND	50	50	13.1	12.5	26	25	36-139	5	20	M1
1,3-Dichloropropane	ug/L	ND	50	50	40.8	45.1	82	90	54-137	10	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1595784												1595785	
Parameter	Units	50150409006		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD		
1,4-Dichlorobenzene	ug/L	ND	50	50	13.3	12.6	27	25	34-134	6	20	M1	
1-Methylnaphthalene	ug/L	ND	50	50	32.6	35.7	63	69	32-150	9	20	N2	
2,2-Dichloropropane	ug/L	ND	50	50	33.7	34.8	67	70	20-142	3	20		
2-Butanone (MEK)	ug/L	ND	250	250	262	292	105	117	44-142	11	20		
2-Chlorotoluene	ug/L	ND	50	50	13.4	13.0	27	26	36-143	4	20	M1	
2-Hexanone	ug/L	ND	250	250	221	256	89	103	43-150	15	20		
2-Methylnaphthalene	ug/L	ND	50	50	26.0	27.2	50	52	27-148	4	20		
4-Chlorotoluene	ug/L	ND	50	50	12.4	11.3	25	23	34-143	9	20	M1	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	219	249	88	100	46-143	13	20		
Acetone	ug/L	ND	250	250	174	195	70	78	33-150	12	20		
Acrolein	ug/L	ND	1000	1000	765	891	76	89	32-200	15	20		
Acrylonitrile	ug/L	ND	200	200	189	207	94	104	47-143	9	20		
Benzene	ug/L	ND	50	50	37.5	39.9	75	80	51-140	6	20		
Bromobenzene	ug/L	ND	50	50	20.4	21.0	41	42	41-134	3	20		
Bromochloromethane	ug/L	ND	50	50	39.1	41.8	78	84	53-148	6	20		
Bromodichloromethane	ug/L	ND	50	50	37.3	41.7	75	83	46-137	11	20		
Bromoform	ug/L	ND	50	50	37.2	41.2	74	82	36-127	10	20		
Bromomethane	ug/L	ND	50	50	19.0	25.2	38	50	10-188	28	20	R1	
Carbon disulfide	ug/L	ND	50	50	31.5	33.8	63	68	35-148	7	20		
Carbon tetrachloride	ug/L	ND	50	50	33.6	36.4	67	73	45-151	8	20		
Chlorobenzene	ug/L	ND	50	50	21.9	23.4	44	47	45-138	6	20	M1	
Chloroethane	ug/L	ND	50	50	41.1	35.9	82	72	33-164	13	20		
Chloroform	ug/L	ND	50	50	37.6	41.2	75	82	50-135	9	20		
Chloromethane	ug/L	ND	50	50	23.9	26.6	48	53	38-146	11	20		
cis-1,2-Dichloroethene	ug/L	ND	50	50	41.6	44.3	83	89	43-144	6	20		
cis-1,3-Dichloropropene	ug/L	ND	50	50	33.9	37.7	68	75	42-136	11	20		
Dibromochloromethane	ug/L	ND	50	50	38.7	43.2	77	86	45-136	11	20		
Dibromomethane	ug/L	ND	50	50	41.6	48.2	83	96	51-139	15	20		
Dichlorodifluoromethane	ug/L	ND	50	50	45.9	49.0	92	98	29-174	6	20		
Ethyl methacrylate	ug/L	ND	200	200	188	215	94	107	44-150	13	20		
Ethylbenzene	ug/L	ND	50	50	17.8	18.7	36	37	36-146	5	20		
Hexachloro-1,3-butadiene	ug/L	ND	50	50	3.6J	3.3J	7	7	14-150		20	M1	
Iodomethane	ug/L	ND	100	100	35.4	56.3	35	56	28-153	46	20	R1	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	14.2	14.1	28	28	43-159	1	20	M1	
Methyl-tert-butyl ether	ug/L	ND	50	50	46.6	52.4	93	105	43-146	12	20		
Methylene Chloride	ug/L	ND	50	50	46.0	48.1	92	96	48-140	5	20		
n-Butylbenzene	ug/L	ND	50	50	4.9J	4.4J	10	9	16-152		20	M1	
n-Hexane	ug/L	ND	50	50	35.3	36.6	71	73	40-144	4	20		
n-Propylbenzene	ug/L	ND	50	50	9.6	9.1	19	18	28-157	4	20	M1	
Naphthalene	ug/L	ND	50	50	31.1	32.7	61	64	38-141	5	20		
p-Isopropyltoluene	ug/L	ND	50	50	7.3	6.3	15	13	21-151	14	20	M1	
sec-Butylbenzene	ug/L	ND	50	50	8.4	7.6	17	15	27-165	10	20	M1	
Styrene	ug/L	ND	50	50	21.5	21.5	43	43	31-148	0	20		
tert-Butylbenzene	ug/L	ND	50	50	9.2	8.3	18	17	24-131	11	20	M1	
Tetrachloroethene	ug/L	ND	50	50	18.4	18.6	37	37	38-139	1	20	M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1595784		1595785		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		50150409006 Result	MS Spike Conc.	MSD Spike Conc.									
Toluene	ug/L	ND	50	50	23.8	25.3	47	50	44-140	6	20		
trans-1,2-Dichloroethene	ug/L	ND	50	50	37.0	40.2	74	80	50-139	8	20		
trans-1,3-Dichloropropene	ug/L	ND	50	50	33.1	36.8	66	74	37-138	11	20		
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	125	146	62	73	10-157	16	20		
Trichloroethene	ug/L	ND	50	50	28.2	30.5	56	61	44-146	8	20		
Trichlorofluoromethane	ug/L	ND	50	50	41.5	43.0	83	86	41-164	4	20		
Vinyl acetate	ug/L	ND	200	200	103	114	51	57	15-146	10	20		
Vinyl chloride	ug/L	ND	50	50	35.0	37.0	70	74	43-166	6	20		
Xylene (Total)	ug/L	ND	150	150	53.0	53.6	35	36	35-146	1	20	MS	
4-Bromofluorobenzene (S)	%.						98	99	79-116				
Dibromofluoromethane (S)	%.						94	96	84-118				
Toluene-d8 (S)	%.						96	95	86-110				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

QC Batch: 344926 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50150303001, 50150303002, 50150303003, 50150303004, 50150303006, 50150303007

METHOD BLANK: 1596641 Matrix: Solid
Associated Lab Samples: 50150303001, 50150303002, 50150303003, 50150303004, 50150303006, 50150303007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	08/02/16 13:46	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	08/02/16 13:46	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	08/02/16 13:46	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	08/02/16 13:46	
1,1-Dichloroethane	mg/kg	ND	0.0050	08/02/16 13:46	
1,1-Dichloroethene	mg/kg	ND	0.0050	08/02/16 13:46	
1,1-Dichloropropene	mg/kg	ND	0.0050	08/02/16 13:46	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	08/02/16 13:46	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	08/02/16 13:46	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	08/02/16 13:46	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	08/02/16 13:46	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	08/02/16 13:46	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	08/02/16 13:46	
1,2-Dichloroethane	mg/kg	ND	0.0050	08/02/16 13:46	
1,2-Dichloropropane	mg/kg	ND	0.0050	08/02/16 13:46	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	08/02/16 13:46	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	08/02/16 13:46	
1,3-Dichloropropane	mg/kg	ND	0.0050	08/02/16 13:46	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	08/02/16 13:46	
2,2-Dichloropropane	mg/kg	ND	0.0050	08/02/16 13:46	
2-Butanone (MEK)	mg/kg	ND	0.025	08/02/16 13:46	
2-Chlorotoluene	mg/kg	ND	0.0050	08/02/16 13:46	
2-Hexanone	mg/kg	ND	0.10	08/02/16 13:46	
4-Chlorotoluene	mg/kg	ND	0.0050	08/02/16 13:46	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	08/02/16 13:46	
Acetone	mg/kg	ND	0.10	08/02/16 13:46	
Acrolein	mg/kg	ND	0.10	08/02/16 13:46	
Acrylonitrile	mg/kg	ND	0.10	08/02/16 13:46	
Benzene	mg/kg	ND	0.0050	08/02/16 13:46	
Bromobenzene	mg/kg	ND	0.0050	08/02/16 13:46	
Bromochloromethane	mg/kg	ND	0.0050	08/02/16 13:46	
Bromodichloromethane	mg/kg	ND	0.0050	08/02/16 13:46	
Bromoform	mg/kg	ND	0.0050	08/02/16 13:46	
Bromomethane	mg/kg	ND	0.0050	08/02/16 13:46	
Carbon disulfide	mg/kg	ND	0.010	08/02/16 13:46	
Carbon tetrachloride	mg/kg	ND	0.0050	08/02/16 13:46	
Chlorobenzene	mg/kg	ND	0.0050	08/02/16 13:46	
Chloroethane	mg/kg	ND	0.0050	08/02/16 13:46	
Chloroform	mg/kg	ND	0.0050	08/02/16 13:46	
Chloromethane	mg/kg	ND	0.0050	08/02/16 13:46	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	08/02/16 13:46	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

METHOD BLANK: 1596641

Matrix: Solid

Associated Lab Samples: 50150303001, 50150303002, 50150303003, 50150303004, 50150303006, 50150303007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	08/02/16 13:46	
Dibromochloromethane	mg/kg	ND	0.0050	08/02/16 13:46	
Dibromomethane	mg/kg	ND	0.0050	08/02/16 13:46	
Dichlorodifluoromethane	mg/kg	ND	0.0050	08/02/16 13:46	
Ethyl methacrylate	mg/kg	ND	0.10	08/02/16 13:46	
Ethylbenzene	mg/kg	ND	0.0050	08/02/16 13:46	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	08/02/16 13:46	
Iodomethane	mg/kg	ND	0.10	08/02/16 13:46	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	08/02/16 13:46	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	08/02/16 13:46	
Methylene Chloride	mg/kg	ND	0.020	08/02/16 13:46	
n-Butylbenzene	mg/kg	ND	0.0050	08/02/16 13:46	
n-Hexane	mg/kg	ND	0.0050	08/02/16 13:46	
n-Propylbenzene	mg/kg	ND	0.0050	08/02/16 13:46	
Naphthalene	mg/kg	ND	0.0050	08/02/16 13:46	
p-Isopropyltoluene	mg/kg	ND	0.0050	08/02/16 13:46	
sec-Butylbenzene	mg/kg	ND	0.0050	08/02/16 13:46	
Styrene	mg/kg	ND	0.0050	08/02/16 13:46	
tert-Butylbenzene	mg/kg	ND	0.0050	08/02/16 13:46	
Tetrachloroethene	mg/kg	ND	0.0050	08/02/16 13:46	
Toluene	mg/kg	ND	0.0050	08/02/16 13:46	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	08/02/16 13:46	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	08/02/16 13:46	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	08/02/16 13:46	
Trichloroethene	mg/kg	ND	0.0050	08/02/16 13:46	
Trichlorofluoromethane	mg/kg	ND	0.0050	08/02/16 13:46	
Vinyl acetate	mg/kg	ND	0.10	08/02/16 13:46	
Vinyl chloride	mg/kg	ND	0.0050	08/02/16 13:46	
Xylene (Total)	mg/kg	ND	0.010	08/02/16 13:46	
4-Bromofluorobenzene (S)	%	93	65-127	08/02/16 13:46	
Dibromofluoromethane (S)	%	93	70-128	08/02/16 13:46	
Toluene-d8 (S)	%	95	72-139	08/02/16 13:46	

LABORATORY CONTROL SAMPLE: 1596642

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.054	107	71-125	
1,1,1-Trichloroethane	mg/kg	.05	0.049	97	67-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.057	115	67-129	
1,1,2-Trichloroethane	mg/kg	.05	0.054	107	74-125	
1,1-Dichloroethane	mg/kg	.05	0.051	101	69-115	
1,1-Dichloroethene	mg/kg	.05	0.056	113	64-133	
1,1-Dichloropropene	mg/kg	.05	0.052	103	79-127	
1,2,3-Trichlorobenzene	mg/kg	.05	0.055	110	63-122	

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

LABORATORY CONTROL SAMPLE: 1596642

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	mg/kg	.05	0.055	109	79-130	
1,2,4-Trichlorobenzene	mg/kg	.05	0.056	112	55-120	
1,2,4-Trimethylbenzene	mg/kg	.05	0.052	104	66-118	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.059	118	79-117	LO
1,2-Dichlorobenzene	mg/kg	.05	0.053	105	71-115	
1,2-Dichloroethane	mg/kg	.05	0.045	91	71-121	
1,2-Dichloropropane	mg/kg	.05	0.053	107	74-119	
1,3,5-Trimethylbenzene	mg/kg	.05	0.053	106	67-118	
1,3-Dichlorobenzene	mg/kg	.05	0.054	108	68-117	
1,3-Dichloropropane	mg/kg	.05	0.054	108	75-121	
1,4-Dichlorobenzene	mg/kg	.05	0.053	106	66-112	
2,2-Dichloropropane	mg/kg	.05	0.051	102	63-126	
2-Butanone (MEK)	mg/kg	.25	0.28	112	61-129	
2-Chlorotoluene	mg/kg	.05	0.052	103	66-121	
2-Hexanone	mg/kg	.25	0.26	104	68-136	
4-Chlorotoluene	mg/kg	.05	0.052	104	67-118	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.24	97	70-129	
Acetone	mg/kg	.25	0.23	92	37-158	
Acrolein	mg/kg	1	1.2	123	46-200	
Acrylonitrile	mg/kg	.2	0.20	101	70-120	
Benzene	mg/kg	.05	0.056	112	72-120	
Bromobenzene	mg/kg	.05	0.052	104	67-114	
Bromochloromethane	mg/kg	.05	0.048	96	73-123	
Bromodichloromethane	mg/kg	.05	0.050	100	72-114	
Bromoform	mg/kg	.05	0.051	102	56-125	
Bromomethane	mg/kg	.05	0.046	91	41-175	
Carbon disulfide	mg/kg	.05	0.047	93	58-130	
Carbon tetrachloride	mg/kg	.05	0.048	96	73-129	
Chlorobenzene	mg/kg	.05	0.054	108	72-115	
Chloroethane	mg/kg	.05	0.042	83	52-154	
Chloroform	mg/kg	.05	0.043	87	66-116	
Chloromethane	mg/kg	.05	0.037	74	49-139	
cis-1,2-Dichloroethene	mg/kg	.05	0.054	109	74-115	
cis-1,3-Dichloropropene	mg/kg	.05	0.056	112	74-122	
Dibromochloromethane	mg/kg	.05	0.053	107	72-123	
Dibromomethane	mg/kg	.05	0.052	104	78-118	
Dichlorodifluoromethane	mg/kg	.05	0.054	109	31-182	
Ethyl methacrylate	mg/kg	.2	0.24	118	73-136	
Ethylbenzene	mg/kg	.05	0.055	110	70-121	
Hexachloro-1,3-butadiene	mg/kg	.05	0.056	112	62-121	
Iodomethane	mg/kg	.1	0.12	121	55-152	
Isopropylbenzene (Cumene)	mg/kg	.05	0.056	111	78-130	
Methyl-tert-butyl ether	mg/kg	.05	0.053	106	68-123	
Methylene Chloride	mg/kg	.05	0.054	107	57-126	
n-Butylbenzene	mg/kg	.05	0.054	108	61-121	
n-Hexane	mg/kg	.05	0.050	99	64-124	
n-Propylbenzene	mg/kg	.05	0.054	107	68-126	

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

LABORATORY CONTROL SAMPLE: 1596642

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	.05	0.059	119	63-125	
p-Isopropyltoluene	mg/kg	.05	0.054	108	68-118	
sec-Butylbenzene	mg/kg	.05	0.055	110	75-131	
Styrene	mg/kg	.05	0.057	114	71-121	
tert-Butylbenzene	mg/kg	.05	0.044	87	61-117	
Tetrachloroethene	mg/kg	.05	0.054	108	66-118	
Toluene	mg/kg	.05	0.047	94	68-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.058	116	71-120	
trans-1,3-Dichloropropene	mg/kg	.05	0.054	107	72-127	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.20	100	55-150	
Trichloroethene	mg/kg	.05	0.053	107	73-120	
Trichlorofluoromethane	mg/kg	.05	0.048	96	61-158	
Vinyl acetate	mg/kg	.2	0.19	97	76-150	
Vinyl chloride	mg/kg	.05	0.050	99	54-155	
Xylene (Total)	mg/kg	.15	0.17	112	69-122	
4-Bromofluorobenzene (S)	%			98	65-127	
Dibromofluoromethane (S)	%			93	70-128	
Toluene-d8 (S)	%			96	72-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596643 1596644

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50150303001 Result	Spike Conc.	Spike Conc.	Result							
1,1,1,2-Tetrachloroethane	mg/kg	ND	.049	.045	0.050	0.052	103	115	24-143	3	20	
1,1,1-Trichloroethane	mg/kg	ND	.049	.045	0.044	0.046	91	102	37-144	4	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.049	.045	0.054	0.058	111	129	12-174	8	20	
1,1,2-Trichloroethane	mg/kg	ND	.049	.045	0.048	0.052	98	115	34-153	8	20	
1,1-Dichloroethane	mg/kg	ND	.049	.045	0.044	0.046	91	102	39-139	4	20	
1,1-Dichloroethene	mg/kg	ND	.049	.045	0.050	0.050	102	110	36-162	1	20	
1,1-Dichloropropene	mg/kg	ND	.049	.045	0.047	0.047	96	105	36-152	1	20	
1,2,3-Trichlorobenzene	mg/kg	ND	.049	.045	0.042	0.039	86	88	10-118	6	20	
1,2,3-Trichloropropane	mg/kg	ND	.049	.045	0.051	0.054	105	120	25-186	6	20	
1,2,4-Trichlorobenzene	mg/kg	ND	.049	.045	0.043	0.043	88	95	10-114	0	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.049	.045	0.051	0.054	101	117	10-157	6	20	
1,2-Dibromoethane (EDB)	mg/kg	ND	.049	.045	0.054	0.055	111	122	27-142	2	20	
1,2-Dichlorobenzene	mg/kg	ND	.049	.045	0.047	0.049	97	110	10-133	4	20	
1,2-Dichloroethane	mg/kg	ND	.049	.045	0.040	0.041	82	91	40-138	2	20	
1,2-Dichloropropane	mg/kg	ND	.049	.045	0.049	0.051	100	114	43-138	5	20	
1,3,5-Trimethylbenzene	mg/kg	ND	.049	.045	0.051	0.053	104	118	10-168	4	20	
1,3-Dichlorobenzene	mg/kg	ND	.049	.045	0.049	0.052	101	115	10-138	6	20	
1,3-Dichloropropane	mg/kg	ND	.049	.045	0.049	0.052	100	115	37-142	5	20	
1,4-Dichlorobenzene	mg/kg	ND	.049	.045	0.048	0.050	98	112	10-130	5	20	
2,2-Dichloropropane	mg/kg	ND	.049	.045	0.048	0.049	98	108	33-144	2	20	
2-Butanone (MEK)	mg/kg	ND	.25	.22	0.27	0.27	111	119	21-183	0	20	
2-Chlorotoluene	mg/kg	ND	.049	.045	0.051	0.053	104	117	10-165	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596643 1596644											
Parameter	Units	MS		MSD		MS	MSD	MS	MSD	% Rec	Max
		50150303001	Spike	Spike	Result						
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD
2-Hexanone	mg/kg	ND	.25	.22	0.25	0.27	101	118	16-187	7	20
4-Chlorotoluene	mg/kg	ND	.049	.045	0.050	0.052	102	115	10-150	4	20
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.25	.22	0.22	0.23	90	100	33-169	3	20
Acetone	mg/kg	ND	.25	.22	0.22	0.23	92	103	10-200	3	20
Acrolein	mg/kg	ND	.97	.9	1.0	1.0	102	113	10-189	3	20
Acrylonitrile	mg/kg	ND	.19	.18	0.18	0.18	92	101	18-163	2	20
Benzene	mg/kg	ND	.049	.045	0.050	0.052	103	116	36-144	4	20
Bromobenzene	mg/kg	ND	.049	.045	0.045	0.046	93	102	10-135	2	20
Bromochloromethane	mg/kg	ND	.049	.045	0.043	0.045	89	101	41-147	5	20
Bromodichloromethane	mg/kg	ND	.049	.045	0.046	0.048	95	106	23-137	3	20
Bromoform	mg/kg	ND	.049	.045	0.050	0.054	104	120	10-147	7	20
Bromomethane	mg/kg	ND	.049	.045	0.039	0.040	80	89	10-196	3	20
Carbon disulfide	mg/kg	ND	.049	.045	0.041	0.043	84	95	22-150	4	20
Carbon tetrachloride	mg/kg	ND	.049	.045	0.044	0.046	91	103	29-152	5	20
Chlorobenzene	mg/kg	ND	.049	.045	0.049	0.051	101	113	16-140	4	20
Chloroethane	mg/kg	ND	.049	.045	0.035	0.036	73	79	19-182	0	20
Chloroform	mg/kg	ND	.049	.045	0.039	0.041	81	91	39-136	4	20
Chloromethane	mg/kg	ND	.049	.045	0.025	0.026	52	58	21-167	2	20
cis-1,2-Dichloroethene	mg/kg	ND	.049	.045	0.050	0.051	103	114	34-143	2	20
cis-1,3-Dichloropropene	mg/kg	ND	.049	.045	0.052	0.055	106	121	19-145	5	20
Dibromochloromethane	mg/kg	ND	.049	.045	0.050	0.052	102	115	18-142	5	20
Dibromomethane	mg/kg	ND	.049	.045	0.048	0.049	98	108	35-140	1	20
Dichlorodifluoromethane	mg/kg	ND	.049	.045	0.050	0.048	103	107	10-200	4	20
Ethyl methacrylate	mg/kg	ND	.19	.18	0.21	0.22	108	124	10-164	6	20
Ethylbenzene	mg/kg	ND	.049	.045	0.052	0.053	106	116	15-147	2	20
Hexachloro-1,3-butadiene	mg/kg	ND	.049	.045	0.054	0.056	110	124	10-146	4	20
Iodomethane	mg/kg	ND	.097	.09	0.11	0.12	117	132	16-166	4	20
Isopropylbenzene (Cumene)	mg/kg	ND	.049	.045	0.052	0.053	107	118	10-163	2	20
Methyl-tert-butyl ether	mg/kg	ND	.049	.045	0.047	0.049	97	108	48-145	3	20
Methylene Chloride	mg/kg	ND	.049	.045	0.051	0.054	98	113	35-142	7	20
n-Butylbenzene	mg/kg	ND	.049	.045	0.051	0.054	104	120	10-159	7	20
n-Hexane	mg/kg	ND	.049	.045	0.046	0.047	94	104	17-158	2	20
n-Propylbenzene	mg/kg	ND	.049	.045	0.053	0.056	108	125	10-176	6	20
Naphthalene	mg/kg	ND	.049	.045	0.049	0.047	94	97	10-132	4	20
p-Isopropyltoluene	mg/kg	ND	.049	.045	0.053	0.056	108	123	10-164	5	20
sec-Butylbenzene	mg/kg	ND	.049	.045	0.055	0.058	113	129	10-189	5	20
Styrene	mg/kg	ND	.049	.045	0.052	0.054	107	120	10-147	4	20
tert-Butylbenzene	mg/kg	ND	.049	.045	0.043	0.046	88	102	10-168	7	20
Tetrachloroethene	mg/kg	ND	.049	.045	0.051	0.052	104	115	14-156	2	20
Toluene	mg/kg	ND	.049	.045	0.043	0.044	87	98	24-151	3	20
trans-1,2-Dichloroethene	mg/kg	ND	.049	.045	0.051	0.052	104	116	33-147	3	20
trans-1,3-Dichloropropene	mg/kg	ND	.049	.045	0.050	0.052	102	114	13-144	3	20
trans-1,4-Dichloro-2-butene	mg/kg	ND	.19	.18	0.17	0.18	88	100	10-156	4	20
Trichloroethene	mg/kg	ND	.049	.045	0.050	0.051	102	113	21-164	2	20
Trichlorofluoromethane	mg/kg	ND	.049	.045	0.042	0.042	87	93	23-187	2	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KMART

Pace Project No.: 50150303

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596643		1596644		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		50150303001 Result	MS Spike Conc.	MSD Spike Conc.									
Vinyl acetate	mg/kg	ND	.19	.18	0.13	0.14	68	79	10-151	7	20		
Vinyl chloride	mg/kg	ND	.049	.045	0.039	0.040	80	89	32-177	3	20		
Xylene (Total)	mg/kg	ND	.15	.13	0.15	0.16	105	119	12-148	4	20		
4-Bromofluorobenzene (S)	%.						95	94	65-127				
Dibromofluoromethane (S)	%.						91	95	70-128				
Toluene-d8 (S)	%.						97	99	72-139				

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

QC Batch: 344927 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50150303005

METHOD BLANK: 1596645 Matrix: Solid
Associated Lab Samples: 50150303005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	08/03/16 02:36	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	08/03/16 02:36	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	08/03/16 02:36	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	08/03/16 02:36	
1,1-Dichloroethane	mg/kg	ND	0.0050	08/03/16 02:36	
1,1-Dichloroethene	mg/kg	ND	0.0050	08/03/16 02:36	
1,1-Dichloropropene	mg/kg	ND	0.0050	08/03/16 02:36	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	08/03/16 02:36	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	08/03/16 02:36	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	08/03/16 02:36	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	08/03/16 02:36	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	08/03/16 02:36	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	08/03/16 02:36	
1,2-Dichloroethane	mg/kg	ND	0.0050	08/03/16 02:36	
1,2-Dichloropropane	mg/kg	ND	0.0050	08/03/16 02:36	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	08/03/16 02:36	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	08/03/16 02:36	
1,3-Dichloropropane	mg/kg	ND	0.0050	08/03/16 02:36	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	08/03/16 02:36	
2,2-Dichloropropane	mg/kg	ND	0.0050	08/03/16 02:36	
2-Butanone (MEK)	mg/kg	ND	0.025	08/03/16 02:36	
2-Chlorotoluene	mg/kg	ND	0.0050	08/03/16 02:36	
2-Hexanone	mg/kg	ND	0.10	08/03/16 02:36	
4-Chlorotoluene	mg/kg	ND	0.0050	08/03/16 02:36	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	08/03/16 02:36	
Acetone	mg/kg	ND	0.10	08/03/16 02:36	
Acrolein	mg/kg	ND	0.10	08/03/16 02:36	
Acrylonitrile	mg/kg	ND	0.10	08/03/16 02:36	
Benzene	mg/kg	ND	0.0050	08/03/16 02:36	
Bromobenzene	mg/kg	ND	0.0050	08/03/16 02:36	
Bromochloromethane	mg/kg	ND	0.0050	08/03/16 02:36	
Bromodichloromethane	mg/kg	ND	0.0050	08/03/16 02:36	
Bromoform	mg/kg	ND	0.0050	08/03/16 02:36	
Bromomethane	mg/kg	ND	0.0050	08/03/16 02:36	
Carbon disulfide	mg/kg	ND	0.010	08/03/16 02:36	
Carbon tetrachloride	mg/kg	ND	0.0050	08/03/16 02:36	
Chlorobenzene	mg/kg	ND	0.0050	08/03/16 02:36	
Chloroethane	mg/kg	ND	0.0050	08/03/16 02:36	
Chloroform	mg/kg	ND	0.0050	08/03/16 02:36	
Chloromethane	mg/kg	ND	0.0050	08/03/16 02:36	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	08/03/16 02:36	

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

METHOD BLANK: 1596645

Matrix: Solid

Associated Lab Samples: 50150303005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	08/03/16 02:36	
Dibromochloromethane	mg/kg	ND	0.0050	08/03/16 02:36	
Dibromomethane	mg/kg	ND	0.0050	08/03/16 02:36	
Dichlorodifluoromethane	mg/kg	ND	0.0050	08/03/16 02:36	
Ethyl methacrylate	mg/kg	ND	0.10	08/03/16 02:36	
Ethylbenzene	mg/kg	ND	0.0050	08/03/16 02:36	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	08/03/16 02:36	
Iodomethane	mg/kg	ND	0.10	08/03/16 02:36	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	08/03/16 02:36	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	08/03/16 02:36	
Methylene Chloride	mg/kg	ND	0.020	08/03/16 02:36	
n-Butylbenzene	mg/kg	ND	0.0050	08/03/16 02:36	
n-Hexane	mg/kg	ND	0.0050	08/03/16 02:36	
n-Propylbenzene	mg/kg	ND	0.0050	08/03/16 02:36	
Naphthalene	mg/kg	ND	0.0050	08/03/16 02:36	
p-Isopropyltoluene	mg/kg	ND	0.0050	08/03/16 02:36	
sec-Butylbenzene	mg/kg	ND	0.0050	08/03/16 02:36	
Styrene	mg/kg	ND	0.0050	08/03/16 02:36	
tert-Butylbenzene	mg/kg	ND	0.0050	08/03/16 02:36	
Tetrachloroethene	mg/kg	ND	0.0050	08/03/16 02:36	
Toluene	mg/kg	ND	0.0050	08/03/16 02:36	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	08/03/16 02:36	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	08/03/16 02:36	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	08/03/16 02:36	
Trichloroethene	mg/kg	ND	0.0050	08/03/16 02:36	
Trichlorofluoromethane	mg/kg	ND	0.0050	08/03/16 02:36	
Vinyl acetate	mg/kg	ND	0.10	08/03/16 02:36	
Vinyl chloride	mg/kg	ND	0.0050	08/03/16 02:36	
Xylene (Total)	mg/kg	ND	0.010	08/03/16 02:36	
4-Bromofluorobenzene (S)	%	93	65-127	08/03/16 02:36	
Dibromofluoromethane (S)	%	91	70-128	08/03/16 02:36	
Toluene-d8 (S)	%	95	72-139	08/03/16 02:36	

LABORATORY CONTROL SAMPLE: 1596646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.055	109	71-125	
1,1,1-Trichloroethane	mg/kg	.05	0.048	97	67-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.053	105	67-129	
1,1,2-Trichloroethane	mg/kg	.05	0.051	103	74-125	
1,1-Dichloroethane	mg/kg	.05	0.048	95	69-115	
1,1-Dichloroethene	mg/kg	.05	0.054	108	64-133	
1,1-Dichloropropene	mg/kg	.05	0.049	97	79-127	
1,2,3-Trichlorobenzene	mg/kg	.05	0.046	93	63-122	

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

LABORATORY CONTROL SAMPLE: 1596646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	mg/kg	.05	0.049	97	79-130	
1,2,4-Trichlorobenzene	mg/kg	.05	0.044	89	55-120	
1,2,4-Trimethylbenzene	mg/kg	.05	0.048	96	66-118	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.055	110	79-117	
1,2-Dichlorobenzene	mg/kg	.05	0.048	95	71-115	
1,2-Dichloroethane	mg/kg	.05	0.042	84	71-121	
1,2-Dichloropropane	mg/kg	.05	0.051	103	74-119	
1,3,5-Trimethylbenzene	mg/kg	.05	0.049	98	67-118	
1,3-Dichlorobenzene	mg/kg	.05	0.049	98	68-117	
1,3-Dichloropropane	mg/kg	.05	0.052	103	75-121	
1,4-Dichlorobenzene	mg/kg	.05	0.046	92	66-112	
2,2-Dichloropropane	mg/kg	.05	0.044	89	63-126	
2-Butanone (MEK)	mg/kg	.25	0.24	96	61-129	
2-Chlorotoluene	mg/kg	.05	0.049	98	66-121	
2-Hexanone	mg/kg	.25	0.23	91	68-136	
4-Chlorotoluene	mg/kg	.05	0.047	95	67-118	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.21	85	70-129	
Acetone	mg/kg	.25	0.18	71	37-158	
Acrolein	mg/kg	1	1.1	113	46-200	
Acrylonitrile	mg/kg	.2	0.18	89	70-120	
Benzene	mg/kg	.05	0.052	105	72-120	
Bromobenzene	mg/kg	.05	0.048	97	67-114	
Bromochloromethane	mg/kg	.05	0.049	97	73-123	
Bromodichloromethane	mg/kg	.05	0.050	99	72-114	
Bromoform	mg/kg	.05	0.053	106	56-125	
Bromomethane	mg/kg	.05	0.041	83	41-175	
Carbon disulfide	mg/kg	.05	0.046	93	58-130	
Carbon tetrachloride	mg/kg	.05	0.049	98	73-129	
Chlorobenzene	mg/kg	.05	0.051	103	72-115	
Chloroethane	mg/kg	.05	0.039	77	52-154	
Chloroform	mg/kg	.05	0.042	84	66-116	
Chloromethane	mg/kg	.05	0.029	58	49-139	
cis-1,2-Dichloroethene	mg/kg	.05	0.051	101	74-115	
cis-1,3-Dichloropropene	mg/kg	.05	0.053	106	74-122	
Dibromochloromethane	mg/kg	.05	0.053	106	72-123	
Dibromomethane	mg/kg	.05	0.050	101	78-118	
Dichlorodifluoromethane	mg/kg	.05	0.053	106	31-182	
Ethyl methacrylate	mg/kg	.2	0.22	110	73-136	
Ethylbenzene	mg/kg	.05	0.052	105	70-121	
Hexachloro-1,3-butadiene	mg/kg	.05	0.051	103	62-121	
Iodomethane	mg/kg	.1	0.12	122	55-152	
Isopropylbenzene (Cumene)	mg/kg	.05	0.053	106	78-130	
Methyl-tert-butyl ether	mg/kg	.05	0.049	98	68-123	
Methylene Chloride	mg/kg	.05	0.051	102	57-126	
n-Butylbenzene	mg/kg	.05	0.048	96	61-121	
n-Hexane	mg/kg	.05	0.046	92	64-124	
n-Propylbenzene	mg/kg	.05	0.050	100	68-126	

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

LABORATORY CONTROL SAMPLE: 1596646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	.05	0.052	104	63-125	
p-Isopropyltoluene	mg/kg	.05	0.050	100	68-118	
sec-Butylbenzene	mg/kg	.05	0.053	105	75-131	
Styrene	mg/kg	.05	0.054	108	71-121	
tert-Butylbenzene	mg/kg	.05	0.042	84	61-117	
Tetrachloroethene	mg/kg	.05	0.050	101	66-118	
Toluene	mg/kg	.05	0.044	88	68-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.055	110	71-120	
trans-1,3-Dichloropropene	mg/kg	.05	0.049	98	72-127	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.16	82	55-150	
Trichloroethene	mg/kg	.05	0.051	101	73-120	
Trichlorofluoromethane	mg/kg	.05	0.046	91	61-158	
Vinyl acetate	mg/kg	.2	0.17	83	76-150	
Vinyl chloride	mg/kg	.05	0.042	83	54-155	
Xylene (Total)	mg/kg	.15	0.16	104	69-122	
4-Bromofluorobenzene (S)	%			97	65-127	
Dibromofluoromethane (S)	%			90	70-128	
Toluene-d8 (S)	%			98	72-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596647 1596648

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50150291006 Result	Spike Conc.	Spike Conc.	Result								
1,1,1,2-Tetrachloroethane	mg/kg	ND	.047	.046	0.049	0.047	103	103	24-143	3	20		
1,1,1-Trichloroethane	mg/kg	ND	.047	.046	0.050	0.047	106	102	37-144	7	20		
1,1,2,2-Tetrachloroethane	mg/kg	ND	.047	.046	0.050	0.046	106	101	12-174	8	20		
1,1,2-Trichloroethane	mg/kg	ND	.047	.046	0.047	0.045	99	98	34-153	5	20		
1,1-Dichloroethane	mg/kg	ND	.047	.046	0.049	0.047	104	103	39-139	4	20		
1,1-Dichloroethene	mg/kg	ND	.047	.046	0.055	0.054	116	117	36-162	3	20		
1,1-Dichloropropene	mg/kg	ND	.047	.046	0.049	0.048	104	104	36-152	3	20		
1,2,3-Trichlorobenzene	mg/kg	ND	.047	.046	0.022	0.022	47	48	10-118	0	20		
1,2,3-Trichloropropane	mg/kg	ND	.047	.046	0.054	0.052	113	113	25-186	3	20		
1,2,4-Trichlorobenzene	mg/kg	ND	.047	.046	0.026	0.025	55	54	10-114	5	20		
1,2,4-Trimethylbenzene	mg/kg	ND	.047	.046	0.050	0.048	100	99	10-157	4	20		
1,2-Dibromoethane (EDB)	mg/kg	ND	.047	.046	0.051	0.051	109	112	27-142	0	20		
1,2-Dichlorobenzene	mg/kg	ND	.047	.046	0.041	0.039	86	84	10-133	5	20		
1,2-Dichloroethane	mg/kg	ND	.047	.046	0.041	0.040	86	87	40-138	2	20		
1,2-Dichloropropane	mg/kg	ND	.047	.046	0.051	0.049	107	108	43-138	3	20		
1,3,5-Trimethylbenzene	mg/kg	ND	.047	.046	0.052	0.048	108	103	10-168	9	20		
1,3-Dichlorobenzene	mg/kg	ND	.047	.046	0.044	0.042	93	92	10-138	5	20		
1,3-Dichloropropane	mg/kg	ND	.047	.046	0.051	0.050	108	110	37-142	2	20		
1,4-Dichlorobenzene	mg/kg	ND	.047	.046	0.043	0.039	91	86	10-130	9	20		
2,2-Dichloropropane	mg/kg	ND	.047	.046	0.050	0.048	105	105	33-144	3	20		
2-Butanone (MEK)	mg/kg	ND	.24	.23	0.24	0.23	100	102	21-183	1	20		
2-Chlorotoluene	mg/kg	ND	.047	.046	0.051	0.047	107	102	10-165	8	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596647 1596648												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max	
		50150291006 Result	Spike Conc.	Spike Conc.	Result						Result	RPD
2-Hexanone	mg/kg	ND	.24	.23	0.22	0.23	94	100	16-187	2	20	
4-Chlorotoluene	mg/kg	ND	.047	.046	0.050	0.046	106	101	10-150	9	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.24	.23	0.21	0.21	87	93	33-169	3	20	
Acetone	mg/kg	ND	.24	.23	0.23	0.24	99	103	10-200	1	20	
Acrolein	mg/kg	ND	.95	.92	0.77	0.77	81	84	10-189	0	20	
Acrylonitrile	mg/kg	ND	.19	.19	0.19	0.18	99	98	18-163	4	20	
Benzene	mg/kg	ND	.047	.046	0.057	0.054	113	111	36-144	5	20	
Bromobenzene	mg/kg	ND	.047	.046	0.041	0.039	85	85	10-135	4	20	
Bromochloromethane	mg/kg	ND	.047	.046	0.048	0.042	101	90	41-147	15	20	
Bromodichloromethane	mg/kg	ND	.047	.046	0.046	0.044	96	96	23-137	4	20	
Bromoform	mg/kg	ND	.047	.046	0.050	0.050	106	109	10-147	0	20	
Bromomethane	mg/kg	ND	.047	.046	0.042	0.043	88	93	10-196	3	20	
Carbon disulfide	mg/kg	ND	.047	.046	0.046	0.044	96	96	22-150	4	20	
Carbon tetrachloride	mg/kg	ND	.047	.046	0.049	0.048	104	104	29-152	3	20	
Chlorobenzene	mg/kg	ND	.047	.046	0.048	0.045	101	99	16-140	5	20	
Chloroethane	mg/kg	ND	.047	.046	0.040	0.039	84	86	19-182	1	20	
Chloroform	mg/kg	ND	.047	.046	0.042	0.041	89	89	39-136	4	20	
Chloromethane	mg/kg	ND	.047	.046	0.034	0.033	72	72	21-167	3	20	
cis-1,2-Dichloroethene	mg/kg	ND	.047	.046	0.053	0.051	112	110	34-143	5	20	
cis-1,3-Dichloropropene	mg/kg	ND	.047	.046	0.052	0.050	110	108	19-145	5	20	
Dibromochloromethane	mg/kg	ND	.047	.046	0.052	0.048	110	104	18-142	8	20	
Dibromomethane	mg/kg	ND	.047	.046	0.047	0.047	100	101	35-140	2	20	
Dichlorodifluoromethane	mg/kg	ND	.047	.046	0.058	0.055	123	120	10-200	6	20	
Ethyl methacrylate	mg/kg	ND	.19	.19	0.15	0.16	79	85	10-164	4	20	
Ethylbenzene	mg/kg	ND	.047	.046	0.054	0.050	109	105	15-147	7	20	
Hexachloro-1,3-butadiene	mg/kg	ND	.047	.046	0.047	0.045	98	99	10-146	3	20	
Iodomethane	mg/kg	ND	.095	.092	0.13	0.13	136	136	16-166	3	20	
Isopropylbenzene (Cumene)	mg/kg	ND	.047	.046	0.051	0.049	108	106	10-163	5	20	
Methyl-tert-butyl ether	mg/kg	ND	.047	.046	0.048	0.048	102	105	48-145	1	20	
Methylene Chloride	mg/kg	ND	.047	.046	0.054	0.051	100	98	35-142	5	20	
n-Butylbenzene	mg/kg	ND	.047	.046	0.049	0.044	102	97	10-159	9	20	
n-Hexane	mg/kg	ND	.047	.046	0.058	0.055	122	120	17-158	5	20	
n-Propylbenzene	mg/kg	ND	.047	.046	0.057	0.052	120	114	10-176	8	20	
Naphthalene	mg/kg	ND	.047	.046	0.032	0.033	65	69	10-132	3	20	
p-Isopropyltoluene	mg/kg	ND	.047	.046	0.052	0.049	111	107	10-164	7	20	
sec-Butylbenzene	mg/kg	ND	.047	.046	0.060	0.055	126	120	10-189	8	20	
Styrene	mg/kg	ND	.047	.046	0.048	0.046	101	101	10-147	4	20	
tert-Butylbenzene	mg/kg	ND	.047	.046	0.048	0.044	101	96	10-168	9	20	
Tetrachloroethene	mg/kg	ND	.047	.046	0.053	0.050	111	108	14-156	6	20	
Toluene	mg/kg	0.015	.047	.046	0.059	0.056	94	91	24-151	5	20	
trans-1,2-Dichloroethene	mg/kg	ND	.047	.046	0.056	0.053	119	115	33-147	6	20	
trans-1,3-Dichloropropene	mg/kg	ND	.047	.046	0.047	0.046	99	100	13-144	3	20	
trans-1,4-Dichloro-2-butene	mg/kg	ND	.19	.19	0.14	0.13	76	72	10-156	8	20	
Trichloroethene	mg/kg	ND	.047	.046	0.052	0.053	110	115	21-164	1	20	
Trichlorofluoromethane	mg/kg	ND	.047	.046	0.050	0.046	106	101	23-187	8	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KMART

Pace Project No.: 50150303

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596647		1596648		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		50150291006 Result	MS Spike Conc.	MSD Spike Conc.									
Vinyl acetate	mg/kg	ND	.19	.19	ND	ND	15	14	10-151		20		
Vinyl chloride	mg/kg	ND	.047	.046	0.046	0.045	97	97	32-177		3	20	
Xylene (Total)	mg/kg	ND	.15	.14	0.16	0.15	107	105	12-148		5	20	
4-Bromofluorobenzene (S)	%.						91	90	65-127				
Dibromofluoromethane (S)	%.						93	93	70-128				
Toluene-d8 (S)	%.						100	100	72-139				

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

QC Batch: 343508 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 50150303004, 50150303005, 50150303006

METHOD BLANK: 1591086 Matrix: Solid
Associated Lab Samples: 50150303004, 50150303005, 50150303006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	99.7	07/26/16 13:36	
PCB-1221 (Aroclor 1221)	ug/kg	ND	99.7	07/26/16 13:36	
PCB-1232 (Aroclor 1232)	ug/kg	ND	99.7	07/26/16 13:36	
PCB-1242 (Aroclor 1242)	ug/kg	ND	99.7	07/26/16 13:36	
PCB-1248 (Aroclor 1248)	ug/kg	ND	99.7	07/26/16 13:36	
PCB-1254 (Aroclor 1254)	ug/kg	ND	99.7	07/26/16 13:36	
PCB-1260 (Aroclor 1260)	ug/kg	ND	99.7	07/26/16 13:36	
Tetrachloro-m-xylene (S)	%	70	24-99	07/26/16 13:36	

LABORATORY CONTROL SAMPLE: 1591087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	166	103	62	40-107	
PCB-1260 (Aroclor 1260)	ug/kg	166	120	72	41-110	
Tetrachloro-m-xylene (S)	%			73	24-99	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591088 1591089

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50150303004	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	ug/kg	ND	191	193	74.1J	65.7J	39	34	10-141	20	
PCB-1260 (Aroclor 1260)	ug/kg	ND	191	193	82.2J	81.6J	43	42	10-131	20	
Tetrachloro-m-xylene (S)	%						52	55	24-99		

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

QC Batch: 343497 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50150303002, 50150303003, 50150303004, 50150303005, 50150303006, 50150303007

METHOD BLANK: 1591068 Matrix: Solid
Associated Lab Samples: 50150303002, 50150303003, 50150303004, 50150303005, 50150303006, 50150303007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	07/27/16 02:03	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	07/27/16 02:03	
Acenaphthene	mg/kg	ND	0.0050	07/27/16 02:03	
Acenaphthylene	mg/kg	ND	0.0050	07/27/16 02:03	
Anthracene	mg/kg	ND	0.0050	07/27/16 02:03	
Benzo(a)anthracene	mg/kg	ND	0.0050	07/27/16 02:03	
Benzo(a)pyrene	mg/kg	ND	0.0050	07/27/16 02:03	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	07/27/16 02:03	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	07/27/16 02:03	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	07/27/16 02:03	
Chrysene	mg/kg	ND	0.0050	07/27/16 02:03	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	07/27/16 02:03	
Fluoranthene	mg/kg	ND	0.0050	07/27/16 02:03	
Fluorene	mg/kg	ND	0.0050	07/27/16 02:03	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	07/27/16 02:03	
Naphthalene	mg/kg	ND	0.0050	07/27/16 02:03	
Phenanthrene	mg/kg	ND	0.0050	07/27/16 02:03	
Pyrene	mg/kg	ND	0.0050	07/27/16 02:03	
2-Fluorobiphenyl (S)	%	75	25-121	07/27/16 02:03	
p-Terphenyl-d14 (S)	%	85	27-124	07/27/16 02:03	

LABORATORY CONTROL SAMPLE: 1591069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.25	75	41-109	N2
2-Methylnaphthalene	mg/kg	.33	0.24	73	39-109	
Acenaphthene	mg/kg	.33	0.26	77	44-127	
Acenaphthylene	mg/kg	.33	0.26	77	43-128	
Anthracene	mg/kg	.33	0.27	82	49-131	
Benzo(a)anthracene	mg/kg	.33	0.32	97	52-128	
Benzo(a)pyrene	mg/kg	.33	0.23	68	54-141	
Benzo(b)fluoranthene	mg/kg	.33	0.23	70	50-146	
Benzo(g,h,i)perylene	mg/kg	.33	0.23	68	51-141	
Benzo(k)fluoranthene	mg/kg	.33	0.23	68	55-139	
Chrysene	mg/kg	.33	0.28	83	56-131	
Dibenz(a,h)anthracene	mg/kg	.33	0.23	68	53-142	
Fluoranthene	mg/kg	.33	0.29	86	51-139	
Fluorene	mg/kg	.33	0.28	83	45-131	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.22	67	51-141	
Naphthalene	mg/kg	.33	0.22	67	43-112	

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

LABORATORY CONTROL SAMPLE: 1591069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.27	82	47-132	
Pyrene	mg/kg	.33	0.28	85	55-130	
2-Fluorobiphenyl (S)	%.			71	25-121	
p-Terphenyl-d14 (S)	%.			76	27-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591070 1591071

Parameter	Units	50150291006		MSD		MSD		% Rec		Max		Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	Limits	RPD	RPD	
1-Methylnaphthalene	mg/kg	ND	.35	.35	0.25	0.26	73	75	17-118	3	20	N2
2-Methylnaphthalene	mg/kg	ND	.35	.35	0.24	0.25	70	72	15-118	3	20	
Acenaphthene	mg/kg	ND	.35	.35	0.26	0.27	77	79	21-125	4	20	
Acenaphthylene	mg/kg	ND	.35	.35	0.27	0.27	77	78	21-126	1	20	
Anthracene	mg/kg	ND	.35	.35	0.27	0.28	79	81	15-134	2	20	
Benzo(a)anthracene	mg/kg	ND	.35	.35	0.31	0.34	90	97	14-129	8	20	
Benzo(a)pyrene	mg/kg	ND	.35	.35	0.23	0.24	66	69	10-146	5	20	
Benzo(b)fluoranthene	mg/kg	ND	.35	.35	0.23	0.24	67	70	10-146	5	20	
Benzo(g,h,i)perylene	mg/kg	ND	.35	.35	0.22	0.23	64	66	10-142	2	20	
Benzo(k)fluoranthene	mg/kg	ND	.35	.35	0.24	0.24	69	71	10-147	2	20	
Chrysene	mg/kg	ND	.35	.35	0.28	0.29	82	84	11-140	2	20	
Dibenz(a,h)anthracene	mg/kg	ND	.35	.35	0.21	0.23	62	65	16-136	5	20	
Fluoranthene	mg/kg	ND	.35	.35	0.29	0.30	84	86	10-146	2	20	
Fluorene	mg/kg	ND	.35	.35	0.28	0.29	81	83	20-131	3	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.35	.35	0.22	0.23	63	65	10-146	4	20	
Naphthalene	mg/kg	ND	.35	.35	0.24	0.25	69	72	15-126	4	20	
Phenanthrene	mg/kg	ND	.35	.35	0.28	0.29	82	84	10-148	2	20	
Pyrene	mg/kg	ND	.35	.35	0.29	0.30	83	86	14-136	4	20	
2-Fluorobiphenyl (S)	%.						73	73	25-121			
p-Terphenyl-d14 (S)	%.						76	77	27-124			

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

QC Batch: 343499 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50150303001

METHOD BLANK: 1591072 Matrix: Solid
Associated Lab Samples: 50150303001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	07/27/16 18:15	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	07/27/16 18:15	
Acenaphthene	mg/kg	ND	0.0050	07/27/16 18:15	
Acenaphthylene	mg/kg	ND	0.0050	07/27/16 18:15	
Anthracene	mg/kg	ND	0.0050	07/27/16 18:15	
Benzo(a)anthracene	mg/kg	ND	0.0050	07/27/16 18:15	
Benzo(a)pyrene	mg/kg	ND	0.0050	07/27/16 18:15	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	07/27/16 18:15	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	07/27/16 18:15	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	07/27/16 18:15	
Chrysene	mg/kg	ND	0.0050	07/27/16 18:15	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	07/27/16 18:15	
Fluoranthene	mg/kg	ND	0.0050	07/27/16 18:15	
Fluorene	mg/kg	ND	0.0050	07/27/16 18:15	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	07/27/16 18:15	
Naphthalene	mg/kg	ND	0.0050	07/27/16 18:15	
Phenanthrene	mg/kg	ND	0.0050	07/27/16 18:15	
Pyrene	mg/kg	ND	0.0050	07/27/16 18:15	
2-Fluorobiphenyl (S)	%	49	25-121	07/27/16 18:15	
p-Terphenyl-d14 (S)	%	55	27-124	07/27/16 18:15	

LABORATORY CONTROL SAMPLE: 1591073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.26	79	41-109	N2
2-Methylnaphthalene	mg/kg	.33	0.26	79	39-109	
Acenaphthene	mg/kg	.33	0.28	86	44-127	
Acenaphthylene	mg/kg	.33	0.27	84	43-128	
Anthracene	mg/kg	.33	0.30	90	49-131	
Benzo(a)anthracene	mg/kg	.33	0.32	98	52-128	
Benzo(a)pyrene	mg/kg	.33	0.25	76	54-141	
Benzo(b)fluoranthene	mg/kg	.33	0.24	74	50-146	
Benzo(g,h,i)perylene	mg/kg	.33	0.25	75	51-141	
Benzo(k)fluoranthene	mg/kg	.33	0.26	79	55-139	
Chrysene	mg/kg	.33	0.32	98	56-131	
Dibenz(a,h)anthracene	mg/kg	.33	0.24	73	53-142	
Fluoranthene	mg/kg	.33	0.30	92	51-139	
Fluorene	mg/kg	.33	0.29	87	45-131	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.24	73	51-141	
Naphthalene	mg/kg	.33	0.25	77	43-112	

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

LABORATORY CONTROL SAMPLE: 1591073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.30	93	47-132	
Pyrene	mg/kg	.33	0.33	100	55-130	
2-Fluorobiphenyl (S)	%.			74	25-121	
p-Terphenyl-d14 (S)	%.			85	27-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591074 1591075

Parameter	Units	50150303001		1591074		1591075		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result							
1-Methylnaphthalene	mg/kg	ND	.37	.37	0.24	0.25	65	68	17-118	3	20	N2		
2-Methylnaphthalene	mg/kg	ND	.37	.37	0.24	0.25	65	67	15-118	3	20			
Acenaphthene	mg/kg	ND	.37	.37	0.27	0.27	71	72	21-125	0	20			
Acenaphthylene	mg/kg	ND	.37	.37	0.26	0.26	69	71	21-126	1	20			
Anthracene	mg/kg	ND	.37	.37	0.27	0.27	74	73	15-134	1	20			
Benzo(a)anthracene	mg/kg	ND	.37	.37	0.29	0.28	78	76	14-129	3	20			
Benzo(a)pyrene	mg/kg	ND	.37	.37	0.23	0.22	61	59	10-146	5	20			
Benzo(b)fluoranthene	mg/kg	ND	.37	.37	0.22	0.21	58	56	10-146	4	20			
Benzo(g,h,i)perylene	mg/kg	ND	.37	.37	0.23	0.21	61	58	10-142	5	20			
Benzo(k)fluoranthene	mg/kg	ND	.37	.37	0.25	0.23	66	63	10-147	5	20			
Chrysene	mg/kg	ND	.37	.37	0.30	0.29	80	77	11-140	3	20			
Dibenz(a,h)anthracene	mg/kg	ND	.37	.37	0.22	0.21	60	56	16-136	6	20			
Fluoranthene	mg/kg	ND	.37	.37	0.28	0.27	74	73	10-146	2	20			
Fluorene	mg/kg	ND	.37	.37	0.27	0.27	72	72	20-131	0	20			
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.37	.37	0.22	0.21	59	56	10-146	6	20			
Naphthalene	mg/kg	ND	.37	.37	0.24	0.25	64	66	15-126	4	20			
Phenanthrene	mg/kg	ND	.37	.37	0.28	0.28	75	74	10-148	1	20			
Pyrene	mg/kg	ND	.37	.37	0.30	0.29	80	78	14-136	2	20			
2-Fluorobiphenyl (S)	%.						61	63	25-121					
p-Terphenyl-d14 (S)	%.						63	64	27-124					

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: KMART
 Pace Project No.: 50150303

QC Batch: 344625 Analysis Method: SM 2540G
 QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 50150303002, 50150303003, 50150303004, 50150303005, 50150303006, 50150303007

SAMPLE DUPLICATE: 1595492

Parameter	Units	50150580001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	65.4	72.1	10	5	R1

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QUALITY CONTROL DATA

Project: KMART
Pace Project No.: 50150303

QC Batch: 344845 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50150303001

SAMPLE DUPLICATE: 1596342

Parameter	Units	50150303001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.4	11.9	14	5	R1

SAMPLE DUPLICATE: 1596343

Parameter	Units	50150364001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.2	15.5	16	5	R1

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.

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QUALIFIERS

Project: KMART
Pace Project No.: 50150303

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above 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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

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

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.

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

N2 The lab does not hold TNI accreditation for this parameter.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KMART
Pace Project No.: 50150303

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50150303004	KM-SB-SB-5 (008-009)	EPA 3546	343508	EPA 8082	343699
50150303005	KM-SB-SB-6 (008-009)	EPA 3546	343508	EPA 8082	343699
50150303006	KM-SB-SB-7 (008-009)	EPA 3546	343508	EPA 8082	343699
50150303001	KM-SB-SB-2 (008-009)	EPA 3050	343473	EPA 6010	344752
50150303002	KM-SB-SB-3 (008-009)	EPA 3050	343473	EPA 6010	344752
50150303003	KM-SB-SB-4 (007-008)	EPA 3050	343473	EPA 6010	344752
50150303004	KM-SB-SB-5 (008-009)	EPA 3050	343473	EPA 6010	344752
50150303005	KM-SB-SB-6 (008-009)	EPA 3050	343473	EPA 6010	344752
50150303006	KM-SB-SB-7 (008-009)	EPA 3050	343473	EPA 6010	344752
50150303007	KM-SB-FD-1	EPA 3050	343473	EPA 6010	344752
50150303001	KM-SB-SB-2 (008-009)	EPA 3546	343499	EPA 8270 by SIM	343841
50150303002	KM-SB-SB-3 (008-009)	EPA 3546	343497	EPA 8270 by SIM	343828
50150303003	KM-SB-SB-4 (007-008)	EPA 3546	343497	EPA 8270 by SIM	343828
50150303004	KM-SB-SB-5 (008-009)	EPA 3546	343497	EPA 8270 by SIM	343828
50150303005	KM-SB-SB-6 (008-009)	EPA 3546	343497	EPA 8270 by SIM	343828
50150303006	KM-SB-SB-7 (008-009)	EPA 3546	343497	EPA 8270 by SIM	343828
50150303007	KM-SB-FD-1	EPA 3546	343497	EPA 8270 by SIM	343828
50150303009	TRIP BLANK	EPA 8260	344873		
50150303001	KM-SB-SB-2 (008-009)	EPA 8260	344926		
50150303002	KM-SB-SB-3 (008-009)	EPA 8260	344926		
50150303003	KM-SB-SB-4 (007-008)	EPA 8260	344926		
50150303004	KM-SB-SB-5 (008-009)	EPA 8260	344926		
50150303005	KM-SB-SB-6 (008-009)	EPA 8260	344927		
50150303006	KM-SB-SB-7 (008-009)	EPA 8260	344926		
50150303007	KM-SB-FD-1	EPA 8260	344926		
50150303001	KM-SB-SB-2 (008-009)	SM 2540G	344845		
50150303002	KM-SB-SB-3 (008-009)	SM 2540G	344625		
50150303003	KM-SB-SB-4 (007-008)	SM 2540G	344625		
50150303004	KM-SB-SB-5 (008-009)	SM 2540G	344625		
50150303005	KM-SB-SB-6 (008-009)	SM 2540G	344625		
50150303006	KM-SB-SB-7 (008-009)	SM 2540G	344625		
50150303007	KM-SB-FD-1	SM 2540G	344625		

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.

Section A
Required Client Information:

Company: **Heartland Environmental Assoc., Inc.**
 Address: **3410 Mishawaka Avenue**
South Bend, IN 46615
 Email To: **nvijay@heartlandenv.com**
 Phone: **574-289-1191** Fax: _____
 Requested Due Date/TAT: **Standard**

Section B
Required Project Information:
 Report To: **Nivas Vijay**
 Copy To: **Craig Wieggle @ Symbiotekonline.com**
 Purchase Order No.: _____
 Project Name: **KWART**
 Project Number: **5200-16-08**

Section C
Invoice Information:
 Attention: _____
 Company Name: **Spectra-Test**
 Address: **6737 W. Washington St #3440**
Milwaukee, WI 53214
 Pace Quote Reference: _____
 Pace Project Manager: _____
 Pace Profile #: _____

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____

Site Location
 STATE: **IN**

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₈ Methanol Other	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB							
1	KM-SB-SB-2 (008-009)			07/21/16	12:43	SL G		5 2			001
2	KM-SB-SB-3 (008-009)			07/21/16	13:23	SL G		5 2			002
3	KM-SB-SB-4 (007-008)			07/21/16	12:25	SL G		5 2			003
4	KM-SB-SB-5 (008-009)			07/21/16	11:27	SL G		5 2			004
5	KM-SB-SB-6 (008-009)			07/21/16	11:39	SL G		5 2			005
6	KM-SB-SB-7 (008-009)			07/21/16	12:00	SL G		5 2			006
7	KM-SB-FD-1			07/21/16	12:25	SL G		5 2			007
8	KM-SB-MS-1			07/21/16	12:43	SL G		5 2			(001)
9	KM-SB-MSD-1			07/21/16	12:43	SL G		5 2			(001)
10											TB 008
11											009
12											

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: **John Sill** DATE: **7/21/16** TIME: **15:45**

ACCEPTED BY / AFFILIATION: **Fed Ex** DATE: **7-22-16** TIME: **8:30**

Temp in °C: _____

Received on: _____

Sealed Cooler: _____

Custody: _____

Samples Intact: _____

SAMPLER NAME AND SIGNATURE: **John A. Sill**

PRINT Name of SAMPLER: **John A. Sill**

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed (MM/DD/YYYY): **7/21/16**

Sample Condition Upon Receipt



Client Name: Heartland Env. Project # SOIS0303

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 690761163756

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Date/Time 5035A kits placed in freezer

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer 1 2 3 4 5 6 A B C D E F Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.9/0.9 Ice Visible in Sample Containers: yes no

Temp should be above freezing to 6°C Comments: _____ Date and Initials of person examining contents: MS 7-20-16

Are samples from West Virginia? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1.
Document any containers out of temp.	
Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr): <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.
Containers Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>Received 1 broken soil jar</u>
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes date/time/ID/Analysis	
All containers needing acid/base pres. have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
exceptions: VOA, coliform, TOC, O&G	
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	
Residual Chlorine Check (SVOC 625 Pest/PCB 608)	11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)	12. Present Absent
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Headspace Wisconsin Sulfide <input type="checkbox"/> Yes <input type="checkbox"/> No	14.
Trip Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>NOT ON COC</u>
Trip Blank Custody Seals Present <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Project Manager Review: <u>MM</u>	
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Sufficient Volume: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Correct Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17.

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: Received 1 broken soil jar for the MSD sample. I told MARK about it and he said to put it into another jar. I also put a Red dot on the top.

Project Manager Review: MM Date: 7/20/16

Sample Container Count

CLIENT: Heartland

COC PAGE 1 of 1

COC ID# _____

Project # S01S0303

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4/6	BP2U	BP2S	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH >12		
1			3																		
2			1																		
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10			2																		
11																					
12																					

MS/MSB

Trip Blank

Container Codes

DG9H	40mL HCL_amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1 liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio_ clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFU	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

August 05, 2016

Mr. Greg Waggle
Symbiont
6737 W. Washington St.
Suite 3440
Milwaukee, WI 53214

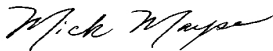
RE: Project: 4850 W Western Ave South Bend
Pace Project No.: 50150369

Dear Mr. Waggle:

Enclosed are the analytical results for sample(s) received by the laboratory on July 23, 2016. 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,



Mick Mayse
mick.mayse@pacelabs.com
Project Manager

Enclosures



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Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: 4850 W Western Ave South Bend
Pace Project No.: 50150369

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 0042
Kentucky WW Certification #:98019

Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2014-148
Texas Certification #: T104704355-15-9
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-10-00128

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SAMPLE SUMMARY

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50150369001	KM-GW-SB-1	Water	07/22/16 09:35	07/23/16 08:50
50150369002	KM-GW-SB-2	Water	07/22/16 10:05	07/23/16 08:50
50150369003	KM-GW-SB-3	Water	07/22/16 11:45	07/23/16 08:50
50150369004	KM-GW-SB-4	Water	07/22/16 11:20	07/23/16 08:50
50150369005	KM-GW-SB-5	Water	07/22/16 11:05	07/23/16 08:50
50150369006	KM-GW-SB-6	Water	07/22/16 10:50	07/23/16 08:50
50150369007	KM-GW-SB-7	Water	07/22/16 10:25	07/23/16 08:50
50150369008	KM-GW-FD-1	Water	07/22/16 12:10	07/23/16 08:50
50150369009	KM-GW-ERB	Water	07/22/16 12:25	07/23/16 08:50
50150369010	KM-GW-TB	Water	07/22/16 08:00	07/23/16 08:50

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SAMPLE ANALYTE COUNT

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50150369001	KM-GW-SB-1	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	RSW	73	PASI-I
50150369002	KM-GW-SB-2	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	RSW	73	PASI-I
50150369003	KM-GW-SB-3	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	RSW	73	PASI-I
50150369004	KM-GW-SB-4	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	RSW	73	PASI-I
50150369005	KM-GW-SB-5	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	RSW	73	PASI-I
50150369006	KM-GW-SB-6	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	RSW	73	PASI-I
50150369007	KM-GW-SB-7	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	RSW	73	PASI-I
50150369008	KM-GW-FD-1	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	RSW	73	PASI-I
50150369009	KM-GW-ERB	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	RSW	73	PASI-I
50150369010	KM-GW-TB	EPA 6010	JPK	1	PASI-I
		EPA 8270 by SIM LVE	TBP	20	PASI-I
		EPA 8260	CAP	73	PASI-I

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-1	Lab ID: 50150369001	Collected: 07/22/16 09:35	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	24.3	ug/L	10.0	1	07/28/16 07:19	07/29/16 01:51	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	1.0	1	07/24/16 19:23	07/25/16 23:59	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/24/16 19:23	07/25/16 23:59	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/25/16 23:59	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/25/16 23:59	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/16 19:23	07/25/16 23:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/16 19:23	07/25/16 23:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/16 19:23	07/25/16 23:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/16 19:23	07/25/16 23:59	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/24/16 19:23	07/25/16 23:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/25/16 23:59	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/24/16 19:23	07/25/16 23:59	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/24/16 19:23	07/25/16 23:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/16 19:23	07/25/16 23:59	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/25/16 23:59	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/25/16 23:59	91-57-6	
Naphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/25/16 23:59	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/24/16 19:23	07/25/16 23:59	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/24/16 19:23	07/25/16 23:59	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	37	%.	18-117	1	07/24/16 19:23	07/25/16 23:59	321-60-8	
p-Terphenyl-d14 (S)	43	%.	10-112	1	07/24/16 19:23	07/25/16 23:59	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		08/02/16 18:27	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/02/16 18:27	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/02/16 18:27	107-13-1	
Benzene	ND	ug/L	5.0	1		08/02/16 18:27	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/02/16 18:27	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/02/16 18:27	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/02/16 18:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/02/16 18:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/02/16 18:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/02/16 18:27	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/02/16 18:27	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/02/16 18:27	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/02/16 18:27	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/02/16 18:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/02/16 18:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/02/16 18:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/02/16 18:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/02/16 18:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/02/16 18:27	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 18:27	95-49-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend
Pace Project No.: 50150369

Sample: KM-GW-SB-1	Lab ID: 50150369001	Collected: 07/22/16 09:35	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 18:27	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/02/16 18:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/02/16 18:27	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/02/16 18:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 18:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 18:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 18:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/02/16 18:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/02/16 18:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/02/16 18:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/02/16 18:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/02/16 18:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 18:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 18:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 18:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/02/16 18:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 18:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/02/16 18:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 18:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 18:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/02/16 18:27	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/02/16 18:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/02/16 18:27	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/02/16 18:27	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		08/02/16 18:27	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/02/16 18:27	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/02/16 18:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/02/16 18:27	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/02/16 18:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/02/16 18:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/02/16 18:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/02/16 18:27	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/02/16 18:27	103-65-1	
Styrene	ND	ug/L	5.0	1		08/02/16 18:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 18:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 18:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/02/16 18:27	127-18-4	
Toluene	ND	ug/L	5.0	1		08/02/16 18:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 18:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 18:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/02/16 18:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/02/16 18:27	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/02/16 18:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/02/16 18:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/02/16 18:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 18:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 18:27	108-67-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-1		Lab ID: 50150369001		Collected: 07/22/16 09:35	Received: 07/23/16 08:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		08/02/16 18:27	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/02/16 18:27	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/02/16 18:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	84-118	1		08/02/16 18:27	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	79-116	1		08/02/16 18:27	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		08/02/16 18:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-2	Lab ID: 50150369002	Collected: 07/22/16 10:05	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	28.7	ug/L	10.0	1	07/28/16 07:19	07/29/16 01:53	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:12	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:12	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:12	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:12	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:12	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/24/16 19:23	07/26/16 00:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:12	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:12	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:12	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:12	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:12	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:12	91-57-6	
Naphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:12	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:12	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:12	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	41	%.	18-117	1	07/24/16 19:23	07/26/16 00:12	321-60-8	
p-Terphenyl-d14 (S)	46	%.	10-112	1	07/24/16 19:23	07/26/16 00:12	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		08/02/16 19:01	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/02/16 19:01	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/02/16 19:01	107-13-1	
Benzene	ND	ug/L	5.0	1		08/02/16 19:01	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/02/16 19:01	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/02/16 19:01	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/02/16 19:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/02/16 19:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/02/16 19:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/02/16 19:01	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/02/16 19:01	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/02/16 19:01	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/02/16 19:01	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/02/16 19:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/02/16 19:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/02/16 19:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/02/16 19:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/02/16 19:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/02/16 19:01	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 19:01	95-49-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-2	Lab ID: 50150369002	Collected: 07/22/16 10:05	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 19:01	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/02/16 19:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/02/16 19:01	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/02/16 19:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 19:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 19:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 19:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/02/16 19:01	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/02/16 19:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/02/16 19:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/02/16 19:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/02/16 19:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 19:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 19:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 19:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/02/16 19:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 19:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/02/16 19:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 19:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 19:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/02/16 19:01	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/02/16 19:01	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/02/16 19:01	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/02/16 19:01	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		08/02/16 19:01	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/02/16 19:01	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/02/16 19:01	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/02/16 19:01	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/02/16 19:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/02/16 19:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/02/16 19:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/02/16 19:01	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/02/16 19:01	103-65-1	
Styrene	ND	ug/L	5.0	1		08/02/16 19:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 19:01	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 19:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/02/16 19:01	127-18-4	
Toluene	ND	ug/L	5.0	1		08/02/16 19:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 19:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 19:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/02/16 19:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/02/16 19:01	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/02/16 19:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/02/16 19:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/02/16 19:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 19:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 19:01	108-67-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-2		Lab ID: 50150369002		Collected: 07/22/16 10:05	Received: 07/23/16 08:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		08/02/16 19:01	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/02/16 19:01	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/02/16 19:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	84-118	1		08/02/16 19:01	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	79-116	1		08/02/16 19:01	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		08/02/16 19:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-3	Lab ID: 50150369003	Collected: 07/22/16 11:45	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	18.0	ug/L	10.0	1	07/28/16 07:19	07/29/16 01:55	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:25	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:25	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:25	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:25	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:25	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/24/16 19:23	07/26/16 00:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:25	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:25	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:25	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:25	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:25	91-57-6	
Naphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:25	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:25	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:25	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	38	%.	18-117	1	07/24/16 19:23	07/26/16 00:25	321-60-8	
p-Terphenyl-d14 (S)	42	%.	10-112	1	07/24/16 19:23	07/26/16 00:25	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		08/02/16 19:35	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/02/16 19:35	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/02/16 19:35	107-13-1	
Benzene	ND	ug/L	5.0	1		08/02/16 19:35	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/02/16 19:35	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/02/16 19:35	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/02/16 19:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/02/16 19:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/02/16 19:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/02/16 19:35	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/02/16 19:35	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/02/16 19:35	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/02/16 19:35	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/02/16 19:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/02/16 19:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/02/16 19:35	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/02/16 19:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/02/16 19:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/02/16 19:35	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 19:35	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Sample Project No.: 50150369

Sample: KM-GW-SB-3	Lab ID: 50150369003	Collected: 07/22/16 11:45	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 19:35	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/02/16 19:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/02/16 19:35	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/02/16 19:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 19:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 19:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 19:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/02/16 19:35	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/02/16 19:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/02/16 19:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/02/16 19:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/02/16 19:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 19:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 19:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 19:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/02/16 19:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 19:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/02/16 19:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 19:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 19:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/02/16 19:35	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/02/16 19:35	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/02/16 19:35	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/02/16 19:35	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		08/02/16 19:35	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/02/16 19:35	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/02/16 19:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/02/16 19:35	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/02/16 19:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/02/16 19:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/02/16 19:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/02/16 19:35	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/02/16 19:35	103-65-1	
Styrene	ND	ug/L	5.0	1		08/02/16 19:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 19:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 19:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/02/16 19:35	127-18-4	
Toluene	ND	ug/L	5.0	1		08/02/16 19:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 19:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 19:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/02/16 19:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/02/16 19:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/02/16 19:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/02/16 19:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/02/16 19:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 19:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 19:35	108-67-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-3		Lab ID: 50150369003		Collected: 07/22/16 11:45	Received: 07/23/16 08:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		08/02/16 19:35	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/02/16 19:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/02/16 19:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	84-118	1		08/02/16 19:35	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	79-116	1		08/02/16 19:35	460-00-4	
Toluene-d8 (S)	97	%.	86-110	1		08/02/16 19:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-4	Lab ID: 50150369004	Collected: 07/22/16 11:20	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	76.2	ug/L	10.0	1	07/28/16 07:19	07/29/16 01:58	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:39	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:39	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:39	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:39	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:39	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/24/16 19:23	07/26/16 00:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:39	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:39	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:39	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:39	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:39	91-57-6	
Naphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:39	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:39	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:39	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	42	%.	18-117	1	07/24/16 19:23	07/26/16 00:39	321-60-8	
p-Terphenyl-d14 (S)	42	%.	10-112	1	07/24/16 19:23	07/26/16 00:39	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		08/02/16 20:10	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/02/16 20:10	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/02/16 20:10	107-13-1	
Benzene	ND	ug/L	5.0	1		08/02/16 20:10	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/02/16 20:10	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/02/16 20:10	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/02/16 20:10	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/02/16 20:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/02/16 20:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/02/16 20:10	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/02/16 20:10	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/02/16 20:10	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/02/16 20:10	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/02/16 20:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/02/16 20:10	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/02/16 20:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/02/16 20:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/02/16 20:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/02/16 20:10	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 20:10	95-49-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-4	Lab ID: 50150369004	Collected: 07/22/16 11:20	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 20:10	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/02/16 20:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/02/16 20:10	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/02/16 20:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 20:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 20:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 20:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/02/16 20:10	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/02/16 20:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/02/16 20:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/02/16 20:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/02/16 20:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 20:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 20:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 20:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/02/16 20:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 20:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/02/16 20:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 20:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 20:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/02/16 20:10	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/02/16 20:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/02/16 20:10	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/02/16 20:10	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		08/02/16 20:10	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/02/16 20:10	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/02/16 20:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/02/16 20:10	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/02/16 20:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/02/16 20:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/02/16 20:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/02/16 20:10	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/02/16 20:10	103-65-1	
Styrene	ND	ug/L	5.0	1		08/02/16 20:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 20:10	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 20:10	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/02/16 20:10	127-18-4	
Toluene	ND	ug/L	5.0	1		08/02/16 20:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 20:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 20:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/02/16 20:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/02/16 20:10	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/02/16 20:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/02/16 20:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/02/16 20:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 20:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 20:10	108-67-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-4		Lab ID: 50150369004		Collected: 07/22/16 11:20		Received: 07/23/16 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	50.0	1		08/02/16 20:10	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		08/02/16 20:10	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		08/02/16 20:10	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	103	%.	84-118	1		08/02/16 20:10	1868-53-7		
4-Bromofluorobenzene (S)	101	%.	79-116	1		08/02/16 20:10	460-00-4		
Toluene-d8 (S)	99	%.	86-110	1		08/02/16 20:10	2037-26-5		

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-5	Lab ID: 50150369005	Collected: 07/22/16 11:05	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	40.4	ug/L	10.0	1	07/28/16 07:19	07/29/16 02:00	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:52	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:52	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:52	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:52	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:52	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:52	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:52	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:52	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/24/16 19:23	07/26/16 00:52	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:52	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:52	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:52	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 00:52	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:52	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:52	91-57-6	
Naphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:52	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:52	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 00:52	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	39	%.	18-117	1	07/24/16 19:23	07/26/16 00:52	321-60-8	
p-Terphenyl-d14 (S)	35	%.	10-112	1	07/24/16 19:23	07/26/16 00:52	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		08/02/16 20:44	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/02/16 20:44	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/02/16 20:44	107-13-1	
Benzene	ND	ug/L	5.0	1		08/02/16 20:44	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/02/16 20:44	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/02/16 20:44	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/02/16 20:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/02/16 20:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/02/16 20:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/02/16 20:44	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/02/16 20:44	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/02/16 20:44	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/02/16 20:44	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/02/16 20:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/02/16 20:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/02/16 20:44	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/02/16 20:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/02/16 20:44	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/02/16 20:44	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 20:44	95-49-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-5	Lab ID: 50150369005	Collected: 07/22/16 11:05	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 20:44	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/02/16 20:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/02/16 20:44	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/02/16 20:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 20:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 20:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 20:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/02/16 20:44	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/02/16 20:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/02/16 20:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/02/16 20:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/02/16 20:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 20:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 20:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 20:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/02/16 20:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 20:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/02/16 20:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 20:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 20:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/02/16 20:44	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/02/16 20:44	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/02/16 20:44	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/02/16 20:44	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		08/02/16 20:44	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/02/16 20:44	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/02/16 20:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/02/16 20:44	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/02/16 20:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/02/16 20:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/02/16 20:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/02/16 20:44	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/02/16 20:44	103-65-1	
Styrene	ND	ug/L	5.0	1		08/02/16 20:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 20:44	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 20:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/02/16 20:44	127-18-4	
Toluene	ND	ug/L	5.0	1		08/02/16 20:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 20:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 20:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/02/16 20:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/02/16 20:44	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/02/16 20:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/02/16 20:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/02/16 20:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 20:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 20:44	108-67-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-5	Lab ID: 50150369005	Collected: 07/22/16 11:05	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		08/02/16 20:44	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/02/16 20:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/02/16 20:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		08/02/16 20:44	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	79-116	1		08/02/16 20:44	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		08/02/16 20:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-6	Lab ID: 50150369006	Collected: 07/22/16 10:50	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	16.0	ug/L	10.0	1	07/28/16 07:19	07/29/16 02:02	7439-92-1	
8270 MSSV PAHLV								
Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 01:05	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 01:05	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 01:05	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 01:05	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 01:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 01:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 01:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 01:05	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/24/16 19:23	07/26/16 01:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 01:05	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 01:05	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 01:05	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/16 19:23	07/26/16 01:05	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 01:05	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 01:05	91-57-6	
Naphthalene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 01:05	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 01:05	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/24/16 19:23	07/26/16 01:05	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	44	%.	18-117	1	07/24/16 19:23	07/26/16 01:05	321-60-8	
p-Terphenyl-d14 (S)	45	%.	10-112	1	07/24/16 19:23	07/26/16 01:05	1718-51-0	
8260 MSV								
Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	1		08/02/16 21:19	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/02/16 21:19	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/02/16 21:19	107-13-1	
Benzene	ND	ug/L	5.0	1		08/02/16 21:19	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/02/16 21:19	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/02/16 21:19	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/02/16 21:19	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/02/16 21:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/02/16 21:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/02/16 21:19	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/02/16 21:19	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/02/16 21:19	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/02/16 21:19	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/02/16 21:19	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/02/16 21:19	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/02/16 21:19	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/02/16 21:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/02/16 21:19	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/02/16 21:19	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 21:19	95-49-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-6	Lab ID: 50150369006	Collected: 07/22/16 10:50	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 21:19	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/02/16 21:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/02/16 21:19	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/02/16 21:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 21:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 21:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 21:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/02/16 21:19	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/02/16 21:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/02/16 21:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/02/16 21:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/02/16 21:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 21:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 21:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 21:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/02/16 21:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 21:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/02/16 21:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 21:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 21:19	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/02/16 21:19	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/02/16 21:19	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/02/16 21:19	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/02/16 21:19	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		08/02/16 21:19	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/02/16 21:19	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/02/16 21:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/02/16 21:19	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/02/16 21:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/02/16 21:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/02/16 21:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/02/16 21:19	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/02/16 21:19	103-65-1	
Styrene	ND	ug/L	5.0	1		08/02/16 21:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 21:19	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 21:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/02/16 21:19	127-18-4	
Toluene	ND	ug/L	5.0	1		08/02/16 21:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 21:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 21:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/02/16 21:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/02/16 21:19	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/02/16 21:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/02/16 21:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/02/16 21:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 21:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 21:19	108-67-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-6		Lab ID: 50150369006		Collected: 07/22/16 10:50	Received: 07/23/16 08:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		08/02/16 21:19	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/02/16 21:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/02/16 21:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		08/02/16 21:19	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	79-116	1		08/02/16 21:19	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		08/02/16 21:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-7	Lab ID: 50150369007	Collected: 07/22/16 10:25	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	28.1	ug/L	10.0	1	07/28/16 07:19	07/29/16 02:04	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 09:58	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 09:58	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 09:58	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 09:58	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 09:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 09:58	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 09:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 09:58	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/24/16 18:18	07/26/16 09:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 09:58	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 09:58	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 09:58	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 09:58	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 09:58	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 09:58	91-57-6	
Naphthalene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 09:58	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 09:58	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 09:58	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	37	%.	18-117	1	07/24/16 18:18	07/26/16 09:58	321-60-8	
p-Terphenyl-d14 (S)	49	%.	10-112	1	07/24/16 18:18	07/26/16 09:58	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		08/02/16 21:53	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/02/16 21:53	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/02/16 21:53	107-13-1	
Benzene	ND	ug/L	5.0	1		08/02/16 21:53	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/02/16 21:53	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/02/16 21:53	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/02/16 21:53	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/02/16 21:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/02/16 21:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/02/16 21:53	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/02/16 21:53	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/02/16 21:53	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/02/16 21:53	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/02/16 21:53	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/02/16 21:53	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/02/16 21:53	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/02/16 21:53	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/02/16 21:53	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/02/16 21:53	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 21:53	95-49-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend
Pace Project No.: 50150369

Sample: KM-GW-SB-7		Lab ID: 50150369007	Collected: 07/22/16 10:25	Received: 07/23/16 08:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 21:53	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/02/16 21:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/02/16 21:53	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/02/16 21:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 21:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 21:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 21:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/02/16 21:53	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/02/16 21:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/02/16 21:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/02/16 21:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/02/16 21:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 21:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 21:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 21:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/02/16 21:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 21:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/02/16 21:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 21:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 21:53	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/02/16 21:53	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/02/16 21:53	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/02/16 21:53	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/02/16 21:53	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		08/02/16 21:53	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/02/16 21:53	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/02/16 21:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/02/16 21:53	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/02/16 21:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/02/16 21:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/02/16 21:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/02/16 21:53	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/02/16 21:53	103-65-1	
Styrene	ND	ug/L	5.0	1		08/02/16 21:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 21:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 21:53	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/02/16 21:53	127-18-4	
Toluene	ND	ug/L	5.0	1		08/02/16 21:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 21:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 21:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/02/16 21:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/02/16 21:53	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/02/16 21:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/02/16 21:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/02/16 21:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 21:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 21:53	108-67-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-SB-7	Lab ID: 50150369007	Collected: 07/22/16 10:25	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		08/02/16 21:53	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/02/16 21:53	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/02/16 21:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	84-118	1		08/02/16 21:53	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	79-116	1		08/02/16 21:53	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		08/02/16 21:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-FD-1	Lab ID: 50150369008	Collected: 07/22/16 12:10	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	ND	ug/L	10.0	1	07/28/16 07:19	07/29/16 02:09	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:11	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:11	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:11	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:11	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:11	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/24/16 18:18	07/26/16 10:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:11	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:11	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:11	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:11	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:11	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:11	91-57-6	
Naphthalene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:11	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:11	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:11	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	36	%.	18-117	1	07/24/16 18:18	07/26/16 10:11	321-60-8	
p-Terphenyl-d14 (S)	45	%.	10-112	1	07/24/16 18:18	07/26/16 10:11	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		08/02/16 22:27	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/02/16 22:27	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/02/16 22:27	107-13-1	
Benzene	ND	ug/L	5.0	1		08/02/16 22:27	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/02/16 22:27	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/02/16 22:27	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/02/16 22:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/02/16 22:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/02/16 22:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/02/16 22:27	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/02/16 22:27	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/02/16 22:27	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/02/16 22:27	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/02/16 22:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/02/16 22:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/02/16 22:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/02/16 22:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/02/16 22:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/02/16 22:27	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 22:27	95-49-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Sample Project No.: 50150369

Sample: KM-GW-FD-1	Lab ID: 50150369008	Collected: 07/22/16 12:10	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/L	5.0	1		08/02/16 22:27	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/02/16 22:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/02/16 22:27	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/02/16 22:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 22:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 22:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/02/16 22:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/02/16 22:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/02/16 22:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/02/16 22:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/02/16 22:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/02/16 22:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 22:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/16 22:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 22:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/02/16 22:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/02/16 22:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/02/16 22:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 22:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/16 22:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/02/16 22:27	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/02/16 22:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/02/16 22:27	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/02/16 22:27	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		08/02/16 22:27	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/02/16 22:27	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/02/16 22:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/02/16 22:27	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/02/16 22:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/02/16 22:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/02/16 22:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/02/16 22:27	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/02/16 22:27	103-65-1	
Styrene	ND	ug/L	5.0	1		08/02/16 22:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 22:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/16 22:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/02/16 22:27	127-18-4	
Toluene	ND	ug/L	5.0	1		08/02/16 22:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 22:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/02/16 22:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/02/16 22:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/02/16 22:27	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/02/16 22:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/02/16 22:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/02/16 22:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 22:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/02/16 22:27	108-67-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-FD-1		Lab ID: 50150369008		Collected: 07/22/16 12:10	Received: 07/23/16 08:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		08/02/16 22:27	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/02/16 22:27	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/02/16 22:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	84-118	1		08/02/16 22:27	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	79-116	1		08/02/16 22:27	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		08/02/16 22:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-ERB	Lab ID: 50150369009	Collected: 07/22/16 12:25	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	ND	ug/L	10.0	1	07/28/16 07:19	07/29/16 02:24	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:51	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:51	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:51	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/24/16 18:18	07/26/16 10:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:51	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:51	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:51	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 10:51	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:51	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:51	91-57-6	
Naphthalene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:51	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:51	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 10:51	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	35	%.	18-117	1	07/24/16 18:18	07/26/16 10:51	321-60-8	
p-Terphenyl-d14 (S)	52	%.	10-112	1	07/24/16 18:18	07/26/16 10:51	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		08/03/16 08:11	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/03/16 08:11	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/03/16 08:11	107-13-1	
Benzene	ND	ug/L	5.0	1		08/03/16 08:11	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/03/16 08:11	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/03/16 08:11	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/03/16 08:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/03/16 08:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/03/16 08:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/03/16 08:11	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/03/16 08:11	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/03/16 08:11	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/03/16 08:11	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/03/16 08:11	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/03/16 08:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/03/16 08:11	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/03/16 08:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/03/16 08:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/03/16 08:11	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/03/16 08:11	95-49-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-ERB	Lab ID: 50150369009	Collected: 07/22/16 12:25	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/L	5.0	1		08/03/16 08:11	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/03/16 08:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/03/16 08:11	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/03/16 08:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/03/16 08:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/03/16 08:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/03/16 08:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/03/16 08:11	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/03/16 08:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/03/16 08:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/03/16 08:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/03/16 08:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/03/16 08:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/03/16 08:11	156-60-5	L3
1,2-Dichloropropane	ND	ug/L	5.0	1		08/03/16 08:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/03/16 08:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/03/16 08:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/03/16 08:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/03/16 08:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/03/16 08:11	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/03/16 08:11	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/03/16 08:11	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/03/16 08:11	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/03/16 08:11	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		08/03/16 08:11	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/03/16 08:11	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/03/16 08:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/03/16 08:11	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/03/16 08:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/03/16 08:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/03/16 08:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/03/16 08:11	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/03/16 08:11	103-65-1	
Styrene	ND	ug/L	5.0	1		08/03/16 08:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/03/16 08:11	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/03/16 08:11	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/03/16 08:11	127-18-4	
Toluene	ND	ug/L	5.0	1		08/03/16 08:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/03/16 08:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/03/16 08:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/03/16 08:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/03/16 08:11	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/03/16 08:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/03/16 08:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/03/16 08:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/03/16 08:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/03/16 08:11	108-67-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-ERB		Lab ID: 50150369009		Collected: 07/22/16 12:25	Received: 07/23/16 08:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		08/03/16 08:11	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/03/16 08:11	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/03/16 08:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		08/03/16 08:11	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	79-116	1		08/03/16 08:11	460-00-4	
Toluene-d8 (S)	97	%.	86-110	1		08/03/16 08:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-TB	Lab ID: 50150369010	Collected: 07/22/16 08:00	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	10.0	1	07/28/16 07:19	07/29/16 02:26	7439-92-1	
8270 MSSV PAHLV								
Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 11:05	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 11:05	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 11:05	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 11:05	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 11:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 11:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 11:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 11:05	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/24/16 18:18	07/26/16 11:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 11:05	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 11:05	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 11:05	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/24/16 18:18	07/26/16 11:05	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 11:05	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 11:05	91-57-6	
Naphthalene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 11:05	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 11:05	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/24/16 18:18	07/26/16 11:05	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	36	%.	18-117	1	07/24/16 18:18	07/26/16 11:05	321-60-8	
p-Terphenyl-d14 (S)	51	%.	10-112	1	07/24/16 18:18	07/26/16 11:05	1718-51-0	
8260 MSV								
Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	1		08/03/16 15:25	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/03/16 15:25	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/03/16 15:25	107-13-1	
Benzene	ND	ug/L	5.0	1		08/03/16 15:25	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/03/16 15:25	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/03/16 15:25	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/03/16 15:25	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/03/16 15:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/03/16 15:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/03/16 15:25	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/03/16 15:25	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/03/16 15:25	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/03/16 15:25	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/03/16 15:25	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/03/16 15:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/03/16 15:25	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/03/16 15:25	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/03/16 15:25	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/03/16 15:25	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/03/16 15:25	95-49-8	

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Sample Project No.: 50150369

Sample: KM-GW-TB	Lab ID: 50150369010	Collected: 07/22/16 08:00	Received: 07/23/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/L	5.0	1		08/03/16 15:25	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/03/16 15:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/03/16 15:25	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/03/16 15:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/03/16 15:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/03/16 15:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/03/16 15:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/03/16 15:25	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/03/16 15:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/03/16 15:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/03/16 15:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/03/16 15:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/03/16 15:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/03/16 15:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/03/16 15:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/03/16 15:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/03/16 15:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/03/16 15:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/03/16 15:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/03/16 15:25	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/03/16 15:25	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/03/16 15:25	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/03/16 15:25	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/03/16 15:25	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		08/03/16 15:25	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/03/16 15:25	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/03/16 15:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/03/16 15:25	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/03/16 15:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/03/16 15:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/03/16 15:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/03/16 15:25	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/03/16 15:25	103-65-1	
Styrene	ND	ug/L	5.0	1		08/03/16 15:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/03/16 15:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/03/16 15:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/03/16 15:25	127-18-4	
Toluene	ND	ug/L	5.0	1		08/03/16 15:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/03/16 15:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/03/16 15:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/03/16 15:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/03/16 15:25	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/03/16 15:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/03/16 15:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/03/16 15:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/03/16 15:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/03/16 15:25	108-67-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Sample: KM-GW-TB		Lab ID: 50150369010		Collected: 07/22/16 08:00	Received: 07/23/16 08:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		08/03/16 15:25	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/03/16 15:25	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/03/16 15:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		08/03/16 15:25	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	79-116	1		08/03/16 15:25	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		08/03/16 15:25	2037-26-5	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend
Pace Project No.: 50150369

QC Batch: 343795 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50150369001, 50150369002, 50150369003, 50150369004, 50150369005, 50150369006, 50150369007, 50150369008, 50150369009, 50150369010

METHOD BLANK: 1592054 Matrix: Water
Associated Lab Samples: 50150369001, 50150369002, 50150369003, 50150369004, 50150369005, 50150369006, 50150369007, 50150369008, 50150369009, 50150369010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	10.0	07/29/16 01:43	

LABORATORY CONTROL SAMPLE: 1592055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1000	1000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1592056 1592057

Parameter	Units	50150369008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	ND	1000	1000	951	930	95	93	75-125	2	20	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

QC Batch: 344899 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 50150369001, 50150369002, 50150369003, 50150369004, 50150369005, 50150369006, 50150369007, 50150369008

METHOD BLANK: 1596531 Matrix: Water
 Associated Lab Samples: 50150369001, 50150369002, 50150369003, 50150369004, 50150369005, 50150369006, 50150369007, 50150369008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/02/16 14:26	
1,1,1-Trichloroethane	ug/L	ND	5.0	08/02/16 14:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	08/02/16 14:26	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/02/16 14:26	
1,1-Dichloroethane	ug/L	ND	5.0	08/02/16 14:26	
1,1-Dichloroethene	ug/L	ND	5.0	08/02/16 14:26	
1,1-Dichloropropene	ug/L	ND	5.0	08/02/16 14:26	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	08/02/16 14:26	
1,2,3-Trichloropropane	ug/L	ND	5.0	08/02/16 14:26	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	08/02/16 14:26	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	08/02/16 14:26	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	08/02/16 14:26	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/02/16 14:26	
1,2-Dichloroethane	ug/L	ND	5.0	08/02/16 14:26	
1,2-Dichloropropane	ug/L	ND	5.0	08/02/16 14:26	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	08/02/16 14:26	
1,3-Dichlorobenzene	ug/L	ND	5.0	08/02/16 14:26	
1,3-Dichloropropane	ug/L	ND	5.0	08/02/16 14:26	
1,4-Dichlorobenzene	ug/L	ND	5.0	08/02/16 14:26	
2,2-Dichloropropane	ug/L	ND	5.0	08/02/16 14:26	
2-Butanone (MEK)	ug/L	ND	25.0	08/02/16 14:26	
2-Chlorotoluene	ug/L	ND	5.0	08/02/16 14:26	
2-Hexanone	ug/L	ND	25.0	08/02/16 14:26	
4-Chlorotoluene	ug/L	ND	5.0	08/02/16 14:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	08/02/16 14:26	
Acetone	ug/L	ND	100	08/02/16 14:26	
Acrolein	ug/L	ND	50.0	08/02/16 14:26	
Acrylonitrile	ug/L	ND	100	08/02/16 14:26	
Benzene	ug/L	ND	5.0	08/02/16 14:26	
Bromobenzene	ug/L	ND	5.0	08/02/16 14:26	
Bromochloromethane	ug/L	ND	5.0	08/02/16 14:26	
Bromodichloromethane	ug/L	ND	5.0	08/02/16 14:26	
Bromoform	ug/L	ND	5.0	08/02/16 14:26	
Bromomethane	ug/L	ND	5.0	08/02/16 14:26	
Carbon disulfide	ug/L	ND	10.0	08/02/16 14:26	
Carbon tetrachloride	ug/L	ND	5.0	08/02/16 14:26	
Chlorobenzene	ug/L	ND	5.0	08/02/16 14:26	
Chloroethane	ug/L	ND	5.0	08/02/16 14:26	
Chloroform	ug/L	ND	5.0	08/02/16 14:26	
Chloromethane	ug/L	ND	5.0	08/02/16 14:26	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

METHOD BLANK: 1596531

Matrix: Water

Associated Lab Samples: 50150369001, 50150369002, 50150369003, 50150369004, 50150369005, 50150369006, 50150369007, 50150369008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/02/16 14:26	
cis-1,3-Dichloropropene	ug/L	ND	5.0	08/02/16 14:26	
Dibromochloromethane	ug/L	ND	5.0	08/02/16 14:26	
Dibromomethane	ug/L	ND	5.0	08/02/16 14:26	
Dichlorodifluoromethane	ug/L	ND	5.0	08/02/16 14:26	
Ethyl methacrylate	ug/L	ND	100	08/02/16 14:26	
Ethylbenzene	ug/L	ND	5.0	08/02/16 14:26	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	08/02/16 14:26	
Iodomethane	ug/L	ND	10.0	08/02/16 14:26	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	08/02/16 14:26	
Methyl-tert-butyl ether	ug/L	ND	4.0	08/02/16 14:26	
Methylene Chloride	ug/L	ND	5.0	08/02/16 14:26	
n-Butylbenzene	ug/L	ND	5.0	08/02/16 14:26	
n-Hexane	ug/L	ND	5.0	08/02/16 14:26	
n-Propylbenzene	ug/L	ND	5.0	08/02/16 14:26	
Naphthalene	ug/L	ND	5.0	08/02/16 14:26	
p-Isopropyltoluene	ug/L	ND	5.0	08/02/16 14:26	
sec-Butylbenzene	ug/L	ND	5.0	08/02/16 14:26	
Styrene	ug/L	ND	5.0	08/02/16 14:26	
tert-Butylbenzene	ug/L	ND	5.0	08/02/16 14:26	
Tetrachloroethene	ug/L	ND	5.0	08/02/16 14:26	
Toluene	ug/L	ND	5.0	08/02/16 14:26	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/02/16 14:26	
trans-1,3-Dichloropropene	ug/L	ND	5.0	08/02/16 14:26	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/02/16 14:26	
Trichloroethene	ug/L	ND	5.0	08/02/16 14:26	
Trichlorofluoromethane	ug/L	ND	5.0	08/02/16 14:26	
Vinyl acetate	ug/L	ND	50.0	08/02/16 14:26	
Vinyl chloride	ug/L	ND	2.0	08/02/16 14:26	
Xylene (Total)	ug/L	ND	10.0	08/02/16 14:26	
4-Bromofluorobenzene (S)	%	95	79-116	08/02/16 14:26	
Dibromofluoromethane (S)	%	102	84-118	08/02/16 14:26	
Toluene-d8 (S)	%	96	86-110	08/02/16 14:26	

LABORATORY CONTROL SAMPLE: 1596532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	74-130	
1,1,1-Trichloroethane	ug/L	50	57.3	115	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	49.7	99	72-124	
1,1,2-Trichloroethane	ug/L	50	51.7	103	75-125	
1,1-Dichloroethane	ug/L	50	53.9	108	70-120	
1,1-Dichloroethene	ug/L	50	56.7	113	69-127	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

LABORATORY CONTROL SAMPLE: 1596532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	51.5	103	81-129	
1,2,3-Trichlorobenzene	ug/L	50	46.5	93	71-130	
1,2,3-Trichloropropane	ug/L	50	52.5	105	77-127	
1,2,4-Trichlorobenzene	ug/L	50	47.1	94	66-126	
1,2,4-Trimethylbenzene	ug/L	50	54.7	109	73-125	
1,2-Dibromoethane (EDB)	ug/L	50	54.1	108	76-125	
1,2-Dichlorobenzene	ug/L	50	49.8	100	77-122	
1,2-Dichloroethane	ug/L	50	52.6	105	70-123	
1,2-Dichloropropane	ug/L	50	56.8	114	77-124	
1,3,5-Trimethylbenzene	ug/L	50	53.6	107	75-124	
1,3-Dichlorobenzene	ug/L	50	52.0	104	76-124	
1,3-Dichloropropane	ug/L	50	53.1	106	77-123	
1,4-Dichlorobenzene	ug/L	50	53.5	107	75-117	
2,2-Dichloropropane	ug/L	50	55.8	112	44-147	
2-Butanone (MEK)	ug/L	250	230	92	60-135	
2-Chlorotoluene	ug/L	50	50.2	100	75-124	
2-Hexanone	ug/L	250	241	96	65-139	
4-Chlorotoluene	ug/L	50	53.9	108	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	233	93	66-134	
Acetone	ug/L	250	231	93	47-144	
Acrolein	ug/L	1000	1190	119	31-200	
Acrylonitrile	ug/L	200	201	100	64-133	
Benzene	ug/L	50	52.9	106	76-122	
Bromobenzene	ug/L	50	51.3	103	75-117	
Bromochloromethane	ug/L	50	57.4	115	74-134	
Bromodichloromethane	ug/L	50	54.0	108	71-124	
Bromoform	ug/L	50	43.2	86	60-125	
Bromomethane	ug/L	50	47.0	94	23-194	
Carbon disulfide	ug/L	50	52.0	104	63-130	
Carbon tetrachloride	ug/L	50	59.5	119	73-133	
Chlorobenzene	ug/L	50	52.5	105	76-118	
Chloroethane	ug/L	50	47.6	95	50-147	
Chloroform	ug/L	50	51.1	102	70-119	
Chloromethane	ug/L	50	41.7	83	52-136	
cis-1,2-Dichloroethene	ug/L	50	57.5	115	74-120	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	71-134	
Dibromochloromethane	ug/L	50	49.8	100	73-127	
Dibromomethane	ug/L	50	51.2	102	75-124	
Dichlorodifluoromethane	ug/L	50	44.9	90	39-166	
Ethyl methacrylate	ug/L	200	212	106	73-136	
Ethylbenzene	ug/L	50	55.7	111	75-123	
Hexachloro-1,3-butadiene	ug/L	50	49.7	99	70-125	
Iodomethane	ug/L	100	96.8	97	56-142	
Isopropylbenzene (Cumene)	ug/L	50	54.3	109	84-134	
Methyl-tert-butyl ether	ug/L	50	53.8	108	65-131	
Methylene Chloride	ug/L	50	45.3	91	66-130	
n-Butylbenzene	ug/L	50	44.8	90	70-127	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

LABORATORY CONTROL SAMPLE: 1596532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Hexane	ug/L	50	51.0	102	64-131	
n-Propylbenzene	ug/L	50	54.5	109	78-131	
Naphthalene	ug/L	50	50.9	102	65-134	
p-Isopropyltoluene	ug/L	50	54.2	108	75-124	
sec-Butylbenzene	ug/L	50	54.6	109	83-135	
Styrene	ug/L	50	51.3	103	78-128	
tert-Butylbenzene	ug/L	50	39.8	80	62-114	
Tetrachloroethene	ug/L	50	55.6	111	69-119	
Toluene	ug/L	50	48.2	96	74-122	
trans-1,2-Dichloroethene	ug/L	50	58.8	118	72-122	
trans-1,3-Dichloropropene	ug/L	50	53.4	107	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	170	85	39-153	
Trichloroethene	ug/L	50	54.7	109	75-123	
Trichlorofluoromethane	ug/L	50	50.0	100	58-148	
Vinyl acetate	ug/L	200	211	105	67-154	
Vinyl chloride	ug/L	50	46.2	92	61-147	
Xylene (Total)	ug/L	150	164	109	75-127	
4-Bromofluorobenzene (S)	%			98	79-116	
Dibromofluoromethane (S)	%			98	84-118	
Toluene-d8 (S)	%			99	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596533 1596534

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50150369008 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	46.0	42.2	92	84	44-142	9	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	54.6	50.3	109	101	51-140	8	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	44.1	40.8	88	82	49-138	8	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	46.1	42.0	92	84	51-138	9	20	
1,1-Dichloroethane	ug/L	ND	50	50	50.7	48.1	101	96	48-137	5	20	
1,1-Dichloroethene	ug/L	ND	50	50	55.9	52.6	112	105	51-144	6	20	
1,1-Dichloropropene	ug/L	ND	50	50	49.3	44.8	99	90	54-150	10	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	39.9	38.1	80	76	32-140	4	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	46.8	42.5	94	85	51-139	10	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	40.8	37.8	82	76	27-134	8	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	48.7	45.7	97	91	32-143	6	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	50.8	46.4	102	93	52-134	9	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	44.3	41.8	89	84	38-138	6	20	
1,2-Dichloroethane	ug/L	ND	50	50	49.5	46.4	99	93	44-144	7	20	
1,2-Dichloropropane	ug/L	ND	50	50	53.7	50.3	107	101	56-138	7	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	47.4	43.8	95	88	28-146	8	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	46.9	44.0	94	88	36-139	6	20	
1,3-Dichloropropane	ug/L	ND	50	50	48.7	43.7	97	87	54-137	11	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	47.3	45.4	95	91	34-134	4	20	
2,2-Dichloropropane	ug/L	ND	50	50	45.4	42.5	91	85	20-142	7	20	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596533 1596534												
Parameter	Units	MS		MSD		MS	MSD	MS	MSD	% Rec	Max	Qual
		50150369008	Spike	Spike	Result							
2-Butanone (MEK)	ug/L	ND	250	250	208	194	83	78	44-142	7	20	
2-Chlorotoluene	ug/L	ND	50	50	46.5	43.3	93	87	36-143	7	20	
2-Hexanone	ug/L	ND	250	250	218	199	87	79	43-150	9	20	
4-Chlorotoluene	ug/L	ND	50	50	48.7	45.5	97	91	34-143	7	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	211	190	84	76	46-143	11	20	
Acetone	ug/L	ND	250	250	203	195	81	78	33-150	4	20	
Acrolein	ug/L	ND	1000	1000	1020	963	102	96	32-200	6	20	
Acrylonitrile	ug/L	ND	200	200	183	174	92	87	47-143	5	20	
Benzene	ug/L	ND	50	50	50.5	47.0	101	94	51-140	7	20	
Bromobenzene	ug/L	ND	50	50	47.4	43.7	95	87	41-134	8	20	
Bromochloromethane	ug/L	ND	50	50	52.9	50.4	106	101	53-148	5	20	
Bromodichloromethane	ug/L	ND	50	50	50.5	45.9	101	92	46-137	9	20	
Bromoform	ug/L	ND	50	50	38.9	36.2	78	72	36-127	7	20	
Bromomethane	ug/L	ND	50	50	42.6	50.4	85	101	10-188	17	20	
Carbon disulfide	ug/L	ND	50	50	51.9	47.8	104	96	35-148	8	20	
Carbon tetrachloride	ug/L	ND	50	50	57.7	52.5	115	105	45-151	10	20	
Chlorobenzene	ug/L	ND	50	50	49.5	45.8	99	92	45-138	8	20	
Chloroethane	ug/L	ND	50	50	46.2	43.5	92	87	33-164	6	20	
Chloroform	ug/L	ND	50	50	48.8	45.5	98	91	50-135	7	20	
Chloromethane	ug/L	ND	50	50	39.5	37.9	79	76	38-146	4	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	54.4	51.1	109	102	43-144	6	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	48.2	44.5	96	89	42-136	8	20	
Dibromochloromethane	ug/L	ND	50	50	45.5	42.5	91	85	45-136	7	20	
Dibromomethane	ug/L	ND	50	50	46.1	43.7	92	87	51-139	5	20	
Dichlorodifluoromethane	ug/L	ND	50	50	46.7	42.4	93	85	29-174	10	20	
Ethyl methacrylate	ug/L	ND	200	200	194	178	97	89	44-150	9	20	
Ethylbenzene	ug/L	ND	50	50	53.5	47.1	107	94	36-146	13	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	44.8	42.1	90	84	14-150	6	20	
Iodomethane	ug/L	ND	100	100	92.9	91.1	93	91	28-153	2	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	51.4	46.5	103	93	43-159	10	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	49.7	47.0	99	94	43-146	6	20	
Methylene Chloride	ug/L	ND	50	50	42.5	39.6	85	79	48-140	7	20	
n-Butylbenzene	ug/L	ND	50	50	39.3	37.0	79	74	16-152	6	20	
n-Hexane	ug/L	ND	50	50	47.5	44.9	95	90	40-144	6	20	
n-Propylbenzene	ug/L	ND	50	50	48.6	45.0	97	90	28-157	8	20	
Naphthalene	ug/L	ND	50	50	43.4	41.5	87	83	38-141	5	20	
p-Isopropyltoluene	ug/L	ND	50	50	48.6	45.4	97	91	21-151	7	20	
sec-Butylbenzene	ug/L	ND	50	50	49.0	45.9	98	92	27-165	7	20	
Styrene	ug/L	ND	50	50	46.7	44.4	93	89	31-148	5	20	
tert-Butylbenzene	ug/L	ND	50	50	37.0	34.5	74	69	24-131	7	20	
Tetrachloroethene	ug/L	ND	50	50	52.9	48.4	106	97	38-139	9	20	
Toluene	ug/L	ND	50	50	44.9	41.6	89	82	44-140	8	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	57.1	54.0	114	108	50-139	6	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	48.8	44.0	98	88	37-138	10	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	150	133	75	67	10-157	12	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend
Pace Project No.: 50150369

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596533		1596534		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		50150369008 Result	MS Spike Conc.	MSD Spike Conc.									
Trichloroethene	ug/L	ND	50	50	52.5	49.5	105	99	44-146	6	20		
Trichlorofluoromethane	ug/L	ND	50	50	52.8	48.1	106	96	41-164	9	20		
Vinyl acetate	ug/L	ND	200	200	161	141	81	71	15-146	13	20		
Vinyl chloride	ug/L	ND	50	50	46.2	43.7	92	87	43-166	5	20		
Xylene (Total)	ug/L	ND	150	150	156	140	104	93	35-146	11	20		
4-Bromofluorobenzene (S)	%.						101	98	79-116				
Dibromofluoromethane (S)	%.						100	101	84-118				
Toluene-d8 (S)	%.						98	101	86-110				

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend
Pace Project No.: 50150369

QC Batch: 344947 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50150369009

METHOD BLANK: 1596713 Matrix: Water
Associated Lab Samples: 50150369009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/03/16 02:27	
1,1,1-Trichloroethane	ug/L	ND	5.0	08/03/16 02:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	08/03/16 02:27	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/03/16 02:27	
1,1-Dichloroethane	ug/L	ND	5.0	08/03/16 02:27	
1,1-Dichloroethene	ug/L	ND	5.0	08/03/16 02:27	
1,1-Dichloropropene	ug/L	ND	5.0	08/03/16 02:27	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	08/03/16 02:27	
1,2,3-Trichloropropane	ug/L	ND	5.0	08/03/16 02:27	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	08/03/16 02:27	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	08/03/16 02:27	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	08/03/16 02:27	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/03/16 02:27	
1,2-Dichloroethane	ug/L	ND	5.0	08/03/16 02:27	
1,2-Dichloropropane	ug/L	ND	5.0	08/03/16 02:27	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	08/03/16 02:27	
1,3-Dichlorobenzene	ug/L	ND	5.0	08/03/16 02:27	
1,3-Dichloropropane	ug/L	ND	5.0	08/03/16 02:27	
1,4-Dichlorobenzene	ug/L	ND	5.0	08/03/16 02:27	
2,2-Dichloropropane	ug/L	ND	5.0	08/03/16 02:27	
2-Butanone (MEK)	ug/L	ND	25.0	08/03/16 02:27	
2-Chlorotoluene	ug/L	ND	5.0	08/03/16 02:27	
2-Hexanone	ug/L	ND	25.0	08/03/16 02:27	
4-Chlorotoluene	ug/L	ND	5.0	08/03/16 02:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	08/03/16 02:27	
Acetone	ug/L	ND	100	08/03/16 02:27	
Acrolein	ug/L	ND	50.0	08/03/16 02:27	
Acrylonitrile	ug/L	ND	100	08/03/16 02:27	
Benzene	ug/L	ND	5.0	08/03/16 02:27	
Bromobenzene	ug/L	ND	5.0	08/03/16 02:27	
Bromochloromethane	ug/L	ND	5.0	08/03/16 02:27	
Bromodichloromethane	ug/L	ND	5.0	08/03/16 02:27	
Bromoform	ug/L	ND	5.0	08/03/16 02:27	
Bromomethane	ug/L	ND	5.0	08/03/16 02:27	
Carbon disulfide	ug/L	ND	10.0	08/03/16 02:27	
Carbon tetrachloride	ug/L	ND	5.0	08/03/16 02:27	
Chlorobenzene	ug/L	ND	5.0	08/03/16 02:27	
Chloroethane	ug/L	ND	5.0	08/03/16 02:27	
Chloroform	ug/L	ND	5.0	08/03/16 02:27	
Chloromethane	ug/L	ND	5.0	08/03/16 02:27	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/03/16 02:27	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

METHOD BLANK: 1596713

Matrix: Water

Associated Lab Samples: 50150369009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	08/03/16 02:27	
Dibromochloromethane	ug/L	ND	5.0	08/03/16 02:27	
Dibromomethane	ug/L	ND	5.0	08/03/16 02:27	
Dichlorodifluoromethane	ug/L	ND	5.0	08/03/16 02:27	
Ethyl methacrylate	ug/L	ND	100	08/03/16 02:27	
Ethylbenzene	ug/L	ND	5.0	08/03/16 02:27	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	08/03/16 02:27	
Iodomethane	ug/L	ND	10.0	08/03/16 02:27	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	08/03/16 02:27	
Methyl-tert-butyl ether	ug/L	ND	4.0	08/03/16 02:27	
Methylene Chloride	ug/L	ND	5.0	08/03/16 02:27	
n-Butylbenzene	ug/L	ND	5.0	08/03/16 02:27	
n-Hexane	ug/L	ND	5.0	08/03/16 02:27	
n-Propylbenzene	ug/L	ND	5.0	08/03/16 02:27	
Naphthalene	ug/L	ND	5.0	08/03/16 02:27	
p-Isopropyltoluene	ug/L	ND	5.0	08/03/16 02:27	
sec-Butylbenzene	ug/L	ND	5.0	08/03/16 02:27	
Styrene	ug/L	ND	5.0	08/03/16 02:27	
tert-Butylbenzene	ug/L	ND	5.0	08/03/16 02:27	
Tetrachloroethene	ug/L	ND	5.0	08/03/16 02:27	
Toluene	ug/L	ND	5.0	08/03/16 02:27	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/03/16 02:27	
trans-1,3-Dichloropropene	ug/L	ND	5.0	08/03/16 02:27	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/03/16 02:27	
Trichloroethene	ug/L	ND	5.0	08/03/16 02:27	
Trichlorofluoromethane	ug/L	ND	5.0	08/03/16 02:27	
Vinyl acetate	ug/L	ND	50.0	08/03/16 02:27	
Vinyl chloride	ug/L	ND	2.0	08/03/16 02:27	
Xylene (Total)	ug/L	ND	10.0	08/03/16 02:27	
4-Bromofluorobenzene (S)	%	97	79-116	08/03/16 02:27	
Dibromofluoromethane (S)	%	100	84-118	08/03/16 02:27	
Toluene-d8 (S)	%	97	86-110	08/03/16 02:27	

LABORATORY CONTROL SAMPLE: 1596714

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.0	100	74-130	
1,1,1-Trichloroethane	ug/L	50	57.4	115	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	72-124	
1,1,2-Trichloroethane	ug/L	50	49.9	100	75-125	
1,1-Dichloroethane	ug/L	50	55.6	111	70-120	
1,1-Dichloroethene	ug/L	50	58.9	118	69-127	
1,1-Dichloropropene	ug/L	50	54.2	108	81-129	
1,2,3-Trichlorobenzene	ug/L	50	46.8	94	71-130	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

LABORATORY CONTROL SAMPLE: 1596714

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	53.2	106	77-127	
1,2,4-Trichlorobenzene	ug/L	50	46.6	93	66-126	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	73-125	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	76-125	
1,2-Dichlorobenzene	ug/L	50	50.2	100	77-122	
1,2-Dichloroethane	ug/L	50	53.6	107	70-123	
1,2-Dichloropropane	ug/L	50	59.8	120	77-124	
1,3,5-Trimethylbenzene	ug/L	50	52.9	106	75-124	
1,3-Dichlorobenzene	ug/L	50	53.0	106	76-124	
1,3-Dichloropropane	ug/L	50	51.5	103	77-123	
1,4-Dichlorobenzene	ug/L	50	52.8	106	75-117	
2,2-Dichloropropane	ug/L	50	43.9	88	44-147	
2-Butanone (MEK)	ug/L	250	230	92	60-135	
2-Chlorotoluene	ug/L	50	50.6	101	75-124	
2-Hexanone	ug/L	250	238	95	65-139	
4-Chlorotoluene	ug/L	50	53.4	107	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	234	93	66-134	
Acetone	ug/L	250	235	94	47-144	
Acrolein	ug/L	1000	1150	115	31-200	
Acrylonitrile	ug/L	200	209	104	64-133	
Benzene	ug/L	50	54.4	109	76-122	
Bromobenzene	ug/L	50	51.2	102	75-117	
Bromochloromethane	ug/L	50	59.9	120	74-134	
Bromodichloromethane	ug/L	50	55.2	110	71-124	
Bromoform	ug/L	50	43.6	87	60-125	
Bromomethane	ug/L	50	60.0	120	23-194	
Carbon disulfide	ug/L	50	54.1	108	63-130	
Carbon tetrachloride	ug/L	50	60.8	122	73-133	
Chlorobenzene	ug/L	50	53.2	106	76-118	
Chloroethane	ug/L	50	50.1	100	50-147	
Chloroform	ug/L	50	52.2	104	70-119	
Chloromethane	ug/L	50	42.8	86	52-136	
cis-1,2-Dichloroethene	ug/L	50	59.1	118	74-120	
cis-1,3-Dichloropropene	ug/L	50	51.1	102	71-134	
Dibromochloromethane	ug/L	50	50.8	102	73-127	
Dibromomethane	ug/L	50	52.0	104	75-124	
Dichlorodifluoromethane	ug/L	50	47.2	94	39-166	
Ethyl methacrylate	ug/L	200	205	102	73-136	
Ethylbenzene	ug/L	50	55.7	111	75-123	
Hexachloro-1,3-butadiene	ug/L	50	49.8	100	70-125	
Iodomethane	ug/L	100	107	107	56-142	
Isopropylbenzene (Cumene)	ug/L	50	53.8	108	84-134	
Methyl-tert-butyl ether	ug/L	50	55.9	112	65-131	
Methylene Chloride	ug/L	50	47.3	95	66-130	
n-Butylbenzene	ug/L	50	43.8	88	70-127	
n-Hexane	ug/L	50	49.0	98	64-131	
n-Propylbenzene	ug/L	50	54.0	108	78-131	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

LABORATORY CONTROL SAMPLE: 1596714

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	50.2	100	65-134	
p-Isopropyltoluene	ug/L	50	54.8	110	75-124	
sec-Butylbenzene	ug/L	50	53.7	107	83-135	
Styrene	ug/L	50	51.7	103	78-128	
tert-Butylbenzene	ug/L	50	45.7	91	62-114	
Tetrachloroethene	ug/L	50	57.5	115	69-119	
Toluene	ug/L	50	48.6	97	74-122	
trans-1,2-Dichloroethene	ug/L	50	62.0	124	72-122 L0	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	159	79	39-153	
Trichloroethene	ug/L	50	56.5	113	75-123	
Trichlorofluoromethane	ug/L	50	54.9	110	58-148	
Vinyl acetate	ug/L	200	204	102	67-154	
Vinyl chloride	ug/L	50	49.5	99	61-147	
Xylene (Total)	ug/L	150	163	109	75-127	
4-Bromofluorobenzene (S)	%			96	79-116	
Dibromofluoromethane (S)	%			99	84-118	
Toluene-d8 (S)	%			101	86-110	

MATRIX SPIKE SAMPLE: 1596716

Parameter	Units	50150445004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		ND	50	48.0	96	44-142
1,1,1-Trichloroethane	ug/L		ND	50	53.0	106	51-140
1,1,2,2-Tetrachloroethane	ug/L		ND	50	48.6	97	49-138
1,1,2-Trichloroethane	ug/L		ND	50	50.0	100	51-138
1,1-Dichloroethane	ug/L		ND	50	54.9	110	48-137
1,1-Dichloroethene	ug/L		ND	50	52.1	104	51-144
1,1-Dichloropropene	ug/L		ND	50	44.0	88	54-150
1,2,3-Trichlorobenzene	ug/L		ND	50	41.4	83	32-140
1,2,3-Trichloropropane	ug/L		ND	50	50.8	102	51-139
1,2,4-Trichlorobenzene	ug/L		ND	50	40.3	81	27-134
1,2,4-Trimethylbenzene	ug/L	69.3	50	112	85	32-143	
1,2-Dibromoethane (EDB)	ug/L		ND	50	55.0	110	52-134
1,2-Dichlorobenzene	ug/L		ND	50	44.3	89	38-138
1,2-Dichloroethane	ug/L		ND	50	54.2	108	44-144
1,2-Dichloropropane	ug/L		ND	50	57.9	116	56-138
1,3,5-Trimethylbenzene	ug/L	28.9	50	69.0	80	28-146	
1,3-Dichlorobenzene	ug/L		ND	50	44.6	89	36-139
1,3-Dichloropropane	ug/L		ND	50	53.0	106	54-137
1,4-Dichlorobenzene	ug/L		ND	50	46.1	92	34-134
2,2-Dichloropropane	ug/L		ND	50	35.8	72	20-142
2-Butanone (MEK)	ug/L		ND	250	243	97	44-142
2-Chlorotoluene	ug/L		ND	50	45.2	90	36-143
2-Hexanone	ug/L		ND	250	242	97	43-150

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

MATRIX SPIKE SAMPLE: 1596716		50150445004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
4-Chlorotoluene	ug/L	ND	50	43.6	87	34-143	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	235	94	46-143	
Acetone	ug/L	ND	250	239	96	33-150	
Acrolein	ug/L	ND	1000	1050	105	32-200	
Acrylonitrile	ug/L	ND	200	211	106	47-143	
Benzene	ug/L	ND	50	52.2	104	51-140	
Bromobenzene	ug/L	ND	50	46.2	92	41-134	
Bromochloromethane	ug/L	ND	50	58.0	116	53-148	
Bromodichloromethane	ug/L	ND	50	55.0	110	46-137	
Bromoform	ug/L	ND	50	40.8	82	36-127	
Bromomethane	ug/L	ND	50	49.7	99	10-188	
Carbon disulfide	ug/L	ND	50	47.5	95	35-148	
Carbon tetrachloride	ug/L	ND	50	50.7	101	45-151	
Chlorobenzene	ug/L	ND	50	48.0	96	45-138	
Chloroethane	ug/L	ND	50	48.8	98	33-164	
Chloroform	ug/L	ND	50	51.9	104	50-135	
Chloromethane	ug/L	ND	50	42.8	86	38-146	
cis-1,2-Dichloroethene	ug/L	ND	50	59.5	119	43-144	
cis-1,3-Dichloropropene	ug/L	ND	50	47.8	96	42-136	
Dibromochloromethane	ug/L	ND	50	47.8	96	45-136	
Dibromomethane	ug/L	ND	50	51.6	103	51-139	
Dichlorodifluoromethane	ug/L	ND	50	33.3	67	29-174	
Ethyl methacrylate	ug/L	ND	200	210	105	44-150	
Ethylbenzene	ug/L	ND	50	45.6	91	36-146	
Hexachloro-1,3-butadiene	ug/L	ND	50	32.7	65	14-150	
Iodomethane	ug/L	ND	100	104	104	28-153	
Isopropylbenzene (Cumene)	ug/L	ND	50	43.2	86	43-159	
Methyl-tert-butyl ether	ug/L	ND	50	56.6	113	43-146	
Methylene Chloride	ug/L	ND	50	47.2	94	48-140	
n-Butylbenzene	ug/L	7.7	50	37.3	59	16-152	
n-Hexane	ug/L	ND	50	33.0	66	40-144	
n-Propylbenzene	ug/L	ND	50	45.2	81	28-157	
Naphthalene	ug/L	ND	50	46.7	92	38-141	
p-Isopropyltoluene	ug/L	ND	50	43.3	82	21-151	
sec-Butylbenzene	ug/L	ND	50	40.5	77	27-165	
Styrene	ug/L	ND	50	46.5	93	31-148	
tert-Butylbenzene	ug/L	ND	50	30.4	61	24-131	
Tetrachloroethene	ug/L	ND	50	43.1	86	38-139	
Toluene	ug/L	ND	50	42.3	83	44-140	
trans-1,2-Dichloroethene	ug/L	ND	50	56.6	113	50-139	
trans-1,3-Dichloropropene	ug/L	ND	50	47.9	96	37-138	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	147	74	10-157	
Trichloroethene	ug/L	ND	50	50.0	100	44-146	
Trichlorofluoromethane	ug/L	ND	50	44.0	88	41-164	
Vinyl acetate	ug/L	ND	200	133	67	15-146	
Vinyl chloride	ug/L	ND	50	45.4	91	43-166	
Xylene (Total)	ug/L	ND	150	138	92	35-146	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

MATRIX SPIKE SAMPLE: 1596716		50150445004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
4-Bromofluorobenzene (S)	%.				96	79-116	
Dibromofluoromethane (S)	%.				98	84-118	
Toluene-d8 (S)	%.				99	86-110	

SAMPLE DUPLICATE: 1596715

Parameter	Units	50150445003	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,1-Dichloropropene	ug/L	ND	ND		20	
1,2,3-Trichlorobenzene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2,4-Trichlorobenzene	ug/L	ND	ND		20	
1,2,4-Trimethylbenzene	ug/L	13.1	12.6	4	20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,3,5-Trimethylbenzene	ug/L	ND	.6J		20	
1,3-Dichlorobenzene	ug/L	ND	ND		20	
1,3-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2,2-Dichloropropane	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Chlorotoluene	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Chlorotoluene	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrolein	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromobenzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend
Pace Project No.: 50150369

SAMPLE DUPLICATE: 1596715

Parameter	Units	50150445003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Dichlorodifluoromethane	ug/L	ND	ND		20	
Ethyl methacrylate	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Hexachloro-1,3-butadiene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	ND	ND		20	
Methyl-tert-butyl ether	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
n-Butylbenzene	ug/L	5.8	5.5	5	20	
n-Hexane	ug/L	ND	ND		20	
n-Propylbenzene	ug/L	ND	1.8J		20	
Naphthalene	ug/L	ND	3.8J		20	
p-Isopropyltoluene	ug/L	ND	2.1J		20	
sec-Butylbenzene	ug/L	ND	1.7J		20	
Styrene	ug/L	ND	ND		20	
tert-Butylbenzene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	.58J		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	99	97	3		
Dibromofluoromethane (S)	%.	102	103	2		
Toluene-d8 (S)	%.	96	98	2		

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

QC Batch: 345154

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 50150369010

METHOD BLANK: 1597615

Matrix: Water

Associated Lab Samples: 50150369010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/03/16 14:15	
1,1,1-Trichloroethane	ug/L	ND	5.0	08/03/16 14:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	08/03/16 14:15	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/03/16 14:15	
1,1-Dichloroethane	ug/L	ND	5.0	08/03/16 14:15	
1,1-Dichloroethene	ug/L	ND	5.0	08/03/16 14:15	
1,1-Dichloropropene	ug/L	ND	5.0	08/03/16 14:15	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	08/03/16 14:15	
1,2,3-Trichloropropane	ug/L	ND	5.0	08/03/16 14:15	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	08/03/16 14:15	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	08/03/16 14:15	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	08/03/16 14:15	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/03/16 14:15	
1,2-Dichloroethane	ug/L	ND	5.0	08/03/16 14:15	
1,2-Dichloropropane	ug/L	ND	5.0	08/03/16 14:15	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	08/03/16 14:15	
1,3-Dichlorobenzene	ug/L	ND	5.0	08/03/16 14:15	
1,3-Dichloropropane	ug/L	ND	5.0	08/03/16 14:15	
1,4-Dichlorobenzene	ug/L	ND	5.0	08/03/16 14:15	
2,2-Dichloropropane	ug/L	ND	5.0	08/03/16 14:15	
2-Butanone (MEK)	ug/L	ND	25.0	08/03/16 14:15	
2-Chlorotoluene	ug/L	ND	5.0	08/03/16 14:15	
2-Hexanone	ug/L	ND	25.0	08/03/16 14:15	
4-Chlorotoluene	ug/L	ND	5.0	08/03/16 14:15	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	08/03/16 14:15	
Acetone	ug/L	ND	100	08/03/16 14:15	
Acrolein	ug/L	ND	50.0	08/03/16 14:15	
Acrylonitrile	ug/L	ND	100	08/03/16 14:15	
Benzene	ug/L	ND	5.0	08/03/16 14:15	
Bromobenzene	ug/L	ND	5.0	08/03/16 14:15	
Bromochloromethane	ug/L	ND	5.0	08/03/16 14:15	
Bromodichloromethane	ug/L	ND	5.0	08/03/16 14:15	
Bromoform	ug/L	ND	5.0	08/03/16 14:15	
Bromomethane	ug/L	ND	5.0	08/03/16 14:15	
Carbon disulfide	ug/L	ND	10.0	08/03/16 14:15	
Carbon tetrachloride	ug/L	ND	5.0	08/03/16 14:15	
Chlorobenzene	ug/L	ND	5.0	08/03/16 14:15	
Chloroethane	ug/L	ND	5.0	08/03/16 14:15	
Chloroform	ug/L	ND	5.0	08/03/16 14:15	
Chloromethane	ug/L	ND	5.0	08/03/16 14:15	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/03/16 14:15	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

METHOD BLANK: 1597615

Matrix: Water

Associated Lab Samples: 50150369010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	08/03/16 14:15	
Dibromochloromethane	ug/L	ND	5.0	08/03/16 14:15	
Dibromomethane	ug/L	ND	5.0	08/03/16 14:15	
Dichlorodifluoromethane	ug/L	ND	5.0	08/03/16 14:15	
Ethyl methacrylate	ug/L	ND	100	08/03/16 14:15	
Ethylbenzene	ug/L	ND	5.0	08/03/16 14:15	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	08/03/16 14:15	
Iodomethane	ug/L	ND	10.0	08/03/16 14:15	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	08/03/16 14:15	
Methyl-tert-butyl ether	ug/L	ND	4.0	08/03/16 14:15	
Methylene Chloride	ug/L	ND	5.0	08/03/16 14:15	
n-Butylbenzene	ug/L	ND	5.0	08/03/16 14:15	
n-Hexane	ug/L	ND	5.0	08/03/16 14:15	
n-Propylbenzene	ug/L	ND	5.0	08/03/16 14:15	
Naphthalene	ug/L	ND	5.0	08/03/16 14:15	
p-Isopropyltoluene	ug/L	ND	5.0	08/03/16 14:15	
sec-Butylbenzene	ug/L	ND	5.0	08/03/16 14:15	
Styrene	ug/L	ND	5.0	08/03/16 14:15	
tert-Butylbenzene	ug/L	ND	5.0	08/03/16 14:15	
Tetrachloroethene	ug/L	ND	5.0	08/03/16 14:15	
Toluene	ug/L	ND	5.0	08/03/16 14:15	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/03/16 14:15	
trans-1,3-Dichloropropene	ug/L	ND	5.0	08/03/16 14:15	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/03/16 14:15	
Trichloroethene	ug/L	ND	5.0	08/03/16 14:15	
Trichlorofluoromethane	ug/L	ND	5.0	08/03/16 14:15	
Vinyl acetate	ug/L	ND	50.0	08/03/16 14:15	
Vinyl chloride	ug/L	ND	2.0	08/03/16 14:15	
Xylene (Total)	ug/L	ND	10.0	08/03/16 14:15	
4-Bromofluorobenzene (S)	%	97	79-116	08/03/16 14:15	
Dibromofluoromethane (S)	%	102	84-118	08/03/16 14:15	
Toluene-d8 (S)	%	99	86-110	08/03/16 14:15	

LABORATORY CONTROL SAMPLE: 1597616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.2	106	74-130	
1,1,1-Trichloroethane	ug/L	50	54.0	108	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	53.4	107	72-124	
1,1,2-Trichloroethane	ug/L	50	52.7	105	75-125	
1,1-Dichloroethane	ug/L	50	53.4	107	70-120	
1,1-Dichloroethene	ug/L	50	56.1	112	69-127	
1,1-Dichloropropene	ug/L	50	57.4	115	81-129	
1,2,3-Trichlorobenzene	ug/L	50	57.4	115	71-130	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

LABORATORY CONTROL SAMPLE: 1597616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	54.5	109	77-127	
1,2,4-Trichlorobenzene	ug/L	50	57.5	115	66-126	
1,2,4-Trimethylbenzene	ug/L	50	53.4	107	73-125	
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	76-125	
1,2-Dichlorobenzene	ug/L	50	52.3	105	77-122	
1,2-Dichloroethane	ug/L	50	52.3	105	70-123	
1,2-Dichloropropane	ug/L	50	53.3	107	77-124	
1,3,5-Trimethylbenzene	ug/L	50	54.3	109	75-124	
1,3-Dichlorobenzene	ug/L	50	53.9	108	76-124	
1,3-Dichloropropane	ug/L	50	54.6	109	77-123	
1,4-Dichlorobenzene	ug/L	50	53.7	107	75-117	
2,2-Dichloropropane	ug/L	50	53.7	107	44-147	
2-Butanone (MEK)	ug/L	250	218	87	60-135	
2-Chlorotoluene	ug/L	50	52.4	105	75-124	
2-Hexanone	ug/L	250	229	91	65-139	
4-Chlorotoluene	ug/L	50	58.1	116	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	222	89	66-134	
Acetone	ug/L	250	256	102	47-144	
Acrolein	ug/L	1000	1230	123	31-200	
Acrylonitrile	ug/L	200	211	106	64-133	
Benzene	ug/L	50	53.1	106	76-122	
Bromobenzene	ug/L	50	53.7	107	75-117	
Bromochloromethane	ug/L	50	55.2	110	74-134	
Bromodichloromethane	ug/L	50	51.3	103	71-124	
Bromoform	ug/L	50	48.8	98	60-125	
Bromomethane	ug/L	50	53.4	107	23-194	
Carbon disulfide	ug/L	50	46.0	92	63-130	
Carbon tetrachloride	ug/L	50	54.3	109	73-133	
Chlorobenzene	ug/L	50	51.5	103	76-118	
Chloroethane	ug/L	50	45.7	91	50-147	
Chloroform	ug/L	50	52.2	104	70-119	
Chloromethane	ug/L	50	39.4	79	52-136	
cis-1,2-Dichloroethene	ug/L	50	55.4	111	74-120	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	71-134	
Dibromochloromethane	ug/L	50	54.1	108	73-127	
Dibromomethane	ug/L	50	55.2	110	75-124	
Dichlorodifluoromethane	ug/L	50	43.8	88	39-166	
Ethyl methacrylate	ug/L	200	207	103	73-136	
Ethylbenzene	ug/L	50	54.7	109	75-123	
Hexachloro-1,3-butadiene	ug/L	50	57.8	116	70-125	
Iodomethane	ug/L	100	104	104	56-142	
Isopropylbenzene (Cumene)	ug/L	50	53.0	106	84-134	
Methyl-tert-butyl ether	ug/L	50	53.8	108	65-131	
Methylene Chloride	ug/L	50	45.7	91	66-130	
n-Butylbenzene	ug/L	50	52.3	105	70-127	
n-Hexane	ug/L	50	53.8	108	64-131	
n-Propylbenzene	ug/L	50	55.8	112	78-131	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

LABORATORY CONTROL SAMPLE: 1597616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	53.5	107	65-134	
p-Isopropyltoluene	ug/L	50	53.1	106	75-124	
sec-Butylbenzene	ug/L	50	54.6	109	83-135	
Styrene	ug/L	50	53.2	106	78-128	
tert-Butylbenzene	ug/L	50	45.6	91	62-114	
Tetrachloroethene	ug/L	50	55.8	112	69-119	
Toluene	ug/L	50	47.6	95	74-122	
trans-1,2-Dichloroethene	ug/L	50	54.8	110	72-122	
trans-1,3-Dichloropropene	ug/L	50	52.3	105	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	157	79	39-153	
Trichloroethene	ug/L	50	54.6	109	75-123	
Trichlorofluoromethane	ug/L	50	48.6	97	58-148	
Vinyl acetate	ug/L	200	186	93	67-154	
Vinyl chloride	ug/L	50	45.2	90	61-147	
Xylene (Total)	ug/L	150	160	107	75-127	
4-Bromofluorobenzene (S)	%			100	79-116	
Dibromofluoromethane (S)	%			99	84-118	
Toluene-d8 (S)	%			98	86-110	

SAMPLE DUPLICATE: 1597617

Parameter	Units	50150808001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,1-Dichloropropene	ug/L	ND	ND		20	
1,2,3-Trichlorobenzene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2,4-Trichlorobenzene	ug/L	ND	ND		20	
1,2,4-Trimethylbenzene	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,3,5-Trimethylbenzene	ug/L	ND	ND		20	
1,3-Dichlorobenzene	ug/L	ND	ND		20	
1,3-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2,2-Dichloropropane	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Chlorotoluene	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

SAMPLE DUPLICATE: 1597617

Parameter	Units	50150808001 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Chlorotoluene	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrolein	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromobenzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Dichlorodifluoromethane	ug/L	ND	ND		20	
Ethyl methacrylate	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Hexachloro-1,3-butadiene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	ND	ND		20	
Methyl-tert-butyl ether	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
n-Butylbenzene	ug/L	ND	ND		20	
n-Hexane	ug/L	ND	ND		20	
n-Propylbenzene	ug/L	ND	ND		20	
Naphthalene	ug/L	ND	ND		20	
p-Isopropyltoluene	ug/L	ND	ND		20	
sec-Butylbenzene	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
tert-Butylbenzene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend
Pace Project No.: 50150369

SAMPLE DUPLICATE: 1597617

Parameter	Units	50150808001 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%.	99	99	1		
Dibromofluoromethane (S)	%.	102	101	0		
Toluene-d8 (S)	%.	100	98	2		

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend
Pace Project No.: 50150369

QC Batch: 343475 Analysis Method: EPA 8270 by SIM LVE
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 50150369001, 50150369002, 50150369003, 50150369004, 50150369005, 50150369006

METHOD BLANK: 1591017 Matrix: Water
Associated Lab Samples: 50150369001, 50150369002, 50150369003, 50150369004, 50150369005, 50150369006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	07/25/16 20:12	N2
2-Methylnaphthalene	ug/L	ND	1.0	07/25/16 20:12	
Acenaphthene	ug/L	ND	1.0	07/25/16 20:12	
Acenaphthylene	ug/L	ND	1.0	07/25/16 20:12	
Anthracene	ug/L	ND	0.10	07/25/16 20:12	
Benzo(a)anthracene	ug/L	ND	0.10	07/25/16 20:12	
Benzo(a)pyrene	ug/L	ND	0.10	07/25/16 20:12	
Benzo(b)fluoranthene	ug/L	ND	0.10	07/25/16 20:12	
Benzo(g,h,i)perylene	ug/L	ND	0.10	07/25/16 20:12	
Benzo(k)fluoranthene	ug/L	ND	0.10	07/25/16 20:12	
Chrysene	ug/L	ND	0.50	07/25/16 20:12	
Dibenz(a,h)anthracene	ug/L	ND	0.10	07/25/16 20:12	
Fluoranthene	ug/L	ND	1.0	07/25/16 20:12	
Fluorene	ug/L	ND	1.0	07/25/16 20:12	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	07/25/16 20:12	
Naphthalene	ug/L	ND	1.0	07/25/16 20:12	
Phenanthrene	ug/L	ND	1.0	07/25/16 20:12	
Pyrene	ug/L	ND	1.0	07/25/16 20:12	
2-Fluorobiphenyl (S)	%	52	18-117	07/25/16 20:12	
p-Terphenyl-d14 (S)	%	66	10-112	07/25/16 20:12	

LABORATORY CONTROL SAMPLE: 1591018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	4.0	40	35-115	N2
2-Methylnaphthalene	ug/L	10	3.9	39	25-120	
Acenaphthene	ug/L	10	4.7	47	37-129	
Acenaphthylene	ug/L	10	5.3	53	36-139	
Anthracene	ug/L	10	7.0	70	43-147	
Benzo(a)anthracene	ug/L	10	6.9	69	49-149	
Benzo(a)pyrene	ug/L	10	6.3	63	28-150	
Benzo(b)fluoranthene	ug/L	10	5.4	54	35-147	
Benzo(g,h,i)perylene	ug/L	10	5.6	56	15-133	
Benzo(k)fluoranthene	ug/L	10	6.6	66	24-149	
Chrysene	ug/L	10	6.8	68	45-139	
Dibenz(a,h)anthracene	ug/L	10	5.4	54	14-139	
Fluoranthene	ug/L	10	6.7	67	46-166	
Fluorene	ug/L	10	5.3	53	38-138	
Indeno(1,2,3-cd)pyrene	ug/L	10	5.6	56	17-139	
Naphthalene	ug/L	10	4.8	48	29-120	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

LABORATORY CONTROL SAMPLE: 1591018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	6.4	64	48-145	
Pyrene	ug/L	10	7.0	70	48-152	
2-Fluorobiphenyl (S)	%			50	18-117	
p-Terphenyl-d14 (S)	%			62	10-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591019 1591020

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max		Qual
		50149955027 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	RPD		RPD		
1-Methylnaphthalene	ug/L	ND	10	10	2.4	2.9	24	29	16-121	21	20	N2,R1	
2-Methylnaphthalene	ug/L	ND	10	10	2.3	2.7	23	27	11-122	15	20		
Acenaphthene	ug/L	ND	10	10	3.1	3.8	31	38	14-137	21	20	R1	
Acenaphthylene	ug/L	ND	10	10	3.9	4.5	39	45	17-141	15	20		
Anthracene	ug/L	ND	10	10	5.5	6.9	55	69	22-145	23	20	R1	
Benzo(a)anthracene	ug/L	ND	10	10	5.9	6.9	59	69	16-128	16	20		
Benzo(a)pyrene	ug/L	ND	10	10	5.4	6.7	54	67	10-97	22	20	R1	
Benzo(b)fluoranthene	ug/L	ND	10	10	4.8	6.3	48	63	10-103	27	20	R1	
Benzo(g,h,i)perylene	ug/L	ND	10	10	4.7	5.8	47	58	10-70	22	20	R1	
Benzo(k)fluoranthene	ug/L	ND	10	10	5.6	6.8	56	68	10-95	19	20		
Chrysene	ug/L	ND	10	10	6.1	7.4	61	74	15-118	20	20		
Dibenz(a,h)anthracene	ug/L	ND	10	10	4.5	5.7	45	57	10-73	23	20	R1	
Fluoranthene	ug/L	ND	10	10	5.9	7.0	59	70	24-159	17	20		
Fluorene	ug/L	ND	10	10	4.0	4.7	40	47	19-140	17	20		
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	4.7	5.8	47	58	10-74	22	20	R1	
Naphthalene	ug/L	ND	10	10	3.1	3.7	30	36	10-132	20	20		
Phenanthrene	ug/L	ND	10	10	5.4	6.3	54	63	31-141	14	20		
Pyrene	ug/L	ND	10	10	6.1	7.2	61	72	29-144	17	20		
2-Fluorobiphenyl (S)	%						39	45	18-117				
p-Terphenyl-d14 (S)	%						50	62	10-112				

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

QC Batch: 343476 Analysis Method: EPA 8270 by SIM LVE
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH LV by SIM MSSV
 Associated Lab Samples: 50150369007, 50150369008, 50150369009, 50150369010

METHOD BLANK: 1591021 Matrix: Water
 Associated Lab Samples: 50150369007, 50150369008, 50150369009, 50150369010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	07/26/16 08:12	N2
2-Methylnaphthalene	ug/L	ND	1.0	07/26/16 08:12	
Acenaphthene	ug/L	ND	1.0	07/26/16 08:12	
Acenaphthylene	ug/L	ND	1.0	07/26/16 08:12	
Anthracene	ug/L	ND	0.10	07/26/16 08:12	
Benzo(a)anthracene	ug/L	ND	0.10	07/26/16 08:12	
Benzo(a)pyrene	ug/L	ND	0.10	07/26/16 08:12	
Benzo(b)fluoranthene	ug/L	ND	0.10	07/26/16 08:12	
Benzo(g,h,i)perylene	ug/L	ND	0.10	07/26/16 08:12	
Benzo(k)fluoranthene	ug/L	ND	0.10	07/26/16 08:12	
Chrysene	ug/L	ND	0.50	07/26/16 08:12	
Dibenz(a,h)anthracene	ug/L	ND	0.10	07/26/16 08:12	
Fluoranthene	ug/L	ND	1.0	07/26/16 08:12	
Fluorene	ug/L	ND	1.0	07/26/16 08:12	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	07/26/16 08:12	
Naphthalene	ug/L	ND	1.0	07/26/16 08:12	
Phenanthrene	ug/L	ND	1.0	07/26/16 08:12	
Pyrene	ug/L	ND	1.0	07/26/16 08:12	
2-Fluorobiphenyl (S)	%	49	18-117	07/26/16 08:12	
p-Terphenyl-d14 (S)	%	57	10-112	07/26/16 08:12	

LABORATORY CONTROL SAMPLE: 1591022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	4.5	45	35-115	N2
2-Methylnaphthalene	ug/L	10	4.2	42	25-120	
Acenaphthene	ug/L	10	5.4	54	37-129	
Acenaphthylene	ug/L	10	6.0	60	36-139	
Anthracene	ug/L	10	6.9	69	43-147	
Benzo(a)anthracene	ug/L	10	7.4	74	49-149	
Benzo(a)pyrene	ug/L	10	6.9	69	28-150	
Benzo(b)fluoranthene	ug/L	10	6.3	63	35-147	
Benzo(g,h,i)perylene	ug/L	10	5.9	59	15-133	
Benzo(k)fluoranthene	ug/L	10	6.8	68	24-149	
Chrysene	ug/L	10	7.5	75	45-139	
Dibenz(a,h)anthracene	ug/L	10	5.8	58	14-139	
Fluoranthene	ug/L	10	7.2	72	46-166	
Fluorene	ug/L	10	6.2	62	38-138	
Indeno(1,2,3-cd)pyrene	ug/L	10	5.9	59	17-139	
Naphthalene	ug/L	10	4.9	49	29-120	

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

LABORATORY CONTROL SAMPLE: 1591022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	7.2	72	48-145	
Pyrene	ug/L	10	7.6	76	48-152	
2-Fluorobiphenyl (S)	%			54	18-117	
p-Terphenyl-d14 (S)	%			66	10-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591023 1591024

Parameter	Units	1591023		1591024		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50150268006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/L	ND	10	10	2.1	2.3	21	23	16-121	7	20	N2
2-Methylnaphthalene	ug/L	ND	10	10	2.1	2.2	21	22	11-122	4	20	
Acenaphthene	ug/L	ND	10	10	2.9	3.1	29	31	14-137	8	20	
Acenaphthylene	ug/L	ND	10	10	3.4	3.7	34	37	17-141	7	20	
Anthracene	ug/L	ND	10	10	4.7	5.4	47	54	22-145	14	20	
Benzo(a)anthracene	ug/L	ND	10	10	5.4	5.8	54	58	16-128	9	20	
Benzo(a)pyrene	ug/L	ND	10	10	5.0	5.5	50	55	10-97	10	20	
Benzo(b)fluoranthene	ug/L	ND	10	10	4.6	5.6	46	56	10-103	19	20	
Benzo(g,h,i)perylene	ug/L	ND	10	10	4.0	4.5	40	45	10-70	13	20	
Benzo(k)fluoranthene	ug/L	ND	10	10	4.8	5.1	48	51	10-95	5	20	
Chrysene	ug/L	ND	10	10	5.4	5.8	54	58	15-118	7	20	
Dibenz(a,h)anthracene	ug/L	ND	10	10	4.1	4.5	41	45	10-73	8	20	
Fluoranthene	ug/L	ND	10	10	5.0	6.0	50	60	24-159	17	20	
Fluorene	ug/L	ND	10	10	3.6	4.1	36	41	19-140	11	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	4.2	4.7	42	47	10-74	10	20	
Naphthalene	ug/L	ND	10	10	2.6	2.8	26	28	10-132	9	20	
Phenanthrene	ug/L	ND	10	10	4.7	5.5	47	55	31-141	15	20	
Pyrene	ug/L	ND	10	10	5.1	5.6	51	56	29-144	10	20	
2-Fluorobiphenyl (S)	%						34	40	18-117			
p-Terphenyl-d14 (S)	%						43	48	10-112			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591025 1591026

Parameter	Units	1591025		1591026		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50150340002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/L	<0.057	10	10	2.4	2.8	24	28	16-121	15	20	N2
2-Methylnaphthalene	ug/L	<0.065	10	10	2.3	2.7	23	27	11-122	16	20	
Acenaphthene	ug/L	<0.072	10	10	3.3	3.8	33	38	14-137	14	20	
Acenaphthylene	ug/L	<0.069	10	10	3.8	4.4	38	44	17-141	16	20	
Anthracene	ug/L	<0.057	10	10	4.9	6.0	49	60	22-145	20	20	
Benzo(a)anthracene	ug/L	<0.056	10	10	5.7	6.6	57	66	16-128	15	20	
Benzo(a)pyrene	ug/L	<0.038	10	10	5.3	6.1	53	61	10-97	14	20	
Benzo(b)fluoranthene	ug/L	<0.061	10	10	4.9	5.2	49	52	10-103	6	20	
Benzo(g,h,i)perylene	ug/L	<0.036	10	10	4.4	5.2	44	52	10-70	18	20	
Benzo(k)fluoranthene	ug/L	<0.031	10	10	5.2	6.7	52	67	10-95	25	20	R1

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QUALITY CONTROL DATA

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591025												1591026	
Parameter	Units	50150340002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	Qual	
			Spike Conc.	Spike Conc.							RPD		
Chrysene	ug/L	<0.061	10	10	5.8	6.6	58	66	15-118	13	20		
Dibenz(a,h)anthracene	ug/L	<0.040	10	10	4.5	5.1	45	51	10-73	14	20		
Fluoranthene	ug/L	<0.076	10	10	5.5	6.4	55	64	24-159	14	20		
Fluorene	ug/L	<0.067	10	10	4.0	4.6	40	46	19-140	14	20		
Indeno(1,2,3-cd)pyrene	ug/L	<0.035	10	10	4.5	5.3	45	53	10-74	17	20		
Naphthalene	ug/L	<0.078	10	10	2.9	3.4	29	34	10-132	16	20		
Phenanthrene	ug/L	<0.11	10	10	5.1	6.0	51	60	31-141	16	20		
Pyrene	ug/L	<0.069	10	10	5.5	6.5	55	65	29-144	16	20		
2-Fluorobiphenyl (S)	%						38	44	18-117				
p-Terphenyl-d14 (S)	%						50	55	10-112				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591027												1591028	
Parameter	Units	50150369008 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	Qual	
			Spike Conc.	Spike Conc.							RPD		
1-Methylnaphthalene	ug/L	ND	10	10	2.2	2.5	22	25	16-121	12	20	N2	
2-Methylnaphthalene	ug/L	ND	10	10	2.1	2.4	21	24	11-122	15	20		
Acenaphthene	ug/L	ND	10	10	3.0	3.3	30	33	14-137	10	20		
Acenaphthylene	ug/L	ND	10	10	3.5	3.9	35	39	17-141	10	20		
Anthracene	ug/L	ND	10	10	5.4	5.9	54	59	22-145	8	20		
Benzo(a)anthracene	ug/L	ND	10	10	6.0	6.6	60	66	16-128	9	20		
Benzo(a)pyrene	ug/L	ND	10	10	5.8	6.2	58	62	10-97	7	20		
Benzo(b)fluoranthene	ug/L	ND	10	10	4.9	5.9	49	59	10-103	19	20		
Benzo(g,h,i)perylene	ug/L	ND	10	10	4.9	5.4	49	54	10-70	11	20		
Benzo(k)fluoranthene	ug/L	ND	10	10	6.2	6.0	62	60	10-95	3	20		
Chrysene	ug/L	ND	10	10	6.2	6.8	62	68	15-118	10	20		
Dibenz(a,h)anthracene	ug/L	ND	10	10	4.6	5.3	46	53	10-73	13	20		
Fluoranthene	ug/L	ND	10	10	6.2	6.5	62	65	24-159	4	20		
Fluorene	ug/L	ND	10	10	3.9	4.2	39	42	19-140	9	20		
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	4.8	5.4	48	54	10-74	11	20		
Naphthalene	ug/L	ND	10	10	2.8	3.1	28	31	10-132	10	20		
Phenanthrene	ug/L	ND	10	10	5.4	5.8	54	58	31-141	7	20		
Pyrene	ug/L	ND	10	10	6.0	6.6	60	66	29-144	10	20		
2-Fluorobiphenyl (S)	%						38	41	18-117				
p-Terphenyl-d14 (S)	%						53	54	10-112				

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QUALIFIERS

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above 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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

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

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.

N2 The lab does not hold TNI accreditation for this parameter.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 4850 W Western Ave South Bend

Pace Project No.: 50150369

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50150369001	KM-GW-SB-1	EPA 3010	343795	EPA 6010	344297
50150369002	KM-GW-SB-2	EPA 3010	343795	EPA 6010	344297
50150369003	KM-GW-SB-3	EPA 3010	343795	EPA 6010	344297
50150369004	KM-GW-SB-4	EPA 3010	343795	EPA 6010	344297
50150369005	KM-GW-SB-5	EPA 3010	343795	EPA 6010	344297
50150369006	KM-GW-SB-6	EPA 3010	343795	EPA 6010	344297
50150369007	KM-GW-SB-7	EPA 3010	343795	EPA 6010	344297
50150369008	KM-GW-FD-1	EPA 3010	343795	EPA 6010	344297
50150369009	KM-GW-ERB	EPA 3010	343795	EPA 6010	344297
50150369010	KM-GW-TB	EPA 3010	343795	EPA 6010	344297
50150369001	KM-GW-SB-1	EPA 3510	343475	EPA 8270 by SIM LVE	343575
50150369002	KM-GW-SB-2	EPA 3510	343475	EPA 8270 by SIM LVE	343575
50150369003	KM-GW-SB-3	EPA 3510	343475	EPA 8270 by SIM LVE	343575
50150369004	KM-GW-SB-4	EPA 3510	343475	EPA 8270 by SIM LVE	343575
50150369005	KM-GW-SB-5	EPA 3510	343475	EPA 8270 by SIM LVE	343575
50150369006	KM-GW-SB-6	EPA 3510	343475	EPA 8270 by SIM LVE	343575
50150369007	KM-GW-SB-7	EPA 3510	343476	EPA 8270 by SIM LVE	343582
50150369008	KM-GW-FD-1	EPA 3510	343476	EPA 8270 by SIM LVE	343582
50150369009	KM-GW-ERB	EPA 3510	343476	EPA 8270 by SIM LVE	343582
50150369010	KM-GW-TB	EPA 3510	343476	EPA 8270 by SIM LVE	343582
50150369001	KM-GW-SB-1	EPA 8260	344899		
50150369002	KM-GW-SB-2	EPA 8260	344899		
50150369003	KM-GW-SB-3	EPA 8260	344899		
50150369004	KM-GW-SB-4	EPA 8260	344899		
50150369005	KM-GW-SB-5	EPA 8260	344899		
50150369006	KM-GW-SB-6	EPA 8260	344899		
50150369007	KM-GW-SB-7	EPA 8260	344899		
50150369008	KM-GW-FD-1	EPA 8260	344899		
50150369009	KM-GW-ERB	EPA 8260	344947		
50150369010	KM-GW-TB	EPA 8260	345154		

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.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Heartland Environmental Assoc.		Report To: Nivas Vijay		Attention: Greg Waggle	
Address: 3410 Mishawaka Ave.		Copy To:		Company Name: Symbiont	
Email To: bslima@heartlandenv.com		Purchase Order No.:		Address: 8737 W. Washington St., #2440, Milwaukee, WI 53214	
Phone: (574) 289-1191 Fax: (574) 289-7480		Project Name: 4860 W Western Ave., South Bend, IN		Pace Quote Reference:	
Requested Due Date/TAT: Normal		Project Number: 5200-16-08-03		Pace Project Manager:	
				Pace Profile #:	

Page: 1 of 1

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER OTHER

UST RCRA

Site Location: **IN** STATE:

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIFE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Analysis Test (Y/N)	VOC (8260)	PAH by 8270 Sim (low vol)	Total Lead 6010B	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB									
1	KM-GW-SB-1		W	G			07/22/16	9:35	5	2	1	3			
2	KM-GW-SB-2		W	G			07/22/16	10:05	5	2	1	3			
3	KM-GW-SB-3		W	G			07/22/16	11:45	5	2	1	3			
4	KM-GW-SB-4		W	G			07/22/16	11:20	6	2	1	3			
5	KM-GW-SB-5		W	G			07/22/16	11:05	6	2	1	3			
6	KM-GW-SB-6		W	G			07/22/16	10:50	6	2	1	3			
7	KM-GW-SB-7		W	G			07/22/16	10:25	6	2	1	3			
8	KM-GW-FD-1+MS/DMS		W	G			07/22/16	12:10	18	6	3	9			
9	KM-GW-ERB		W	G			07/22/16	12:25	5	2	1	3			
10	KM-GW-TB		W	G			07/22/16		5	2	1	3			
11															
12															

ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
David Nye / Heartland Environmental		7/22/16	13:30	Received on	Temp in °C	Sealed Cooler (Y/N)	Custody (Y/N)
<i>Fedex</i>		7-23-16	08:50	Ice (Y/N)			
<i>Ab Kelly</i>		7-23-16	1:30				
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: David M. Nye SIGNATURE of SAMPLER: <i>David M. Nye</i>		7/22/16					

Sample Condition Upon Receipt



Client Name: Heartland

Project # 501503109

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6907 5116 3610

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Date/Time 5035A kits placed in freezer

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer 1 2 3 4 5 6 A B C D E F

Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 1.3/1.3

Ice Visible in Sample Containers: yes no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: JHC 7-23-16

Are samples from West Virginia? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1.
Document any containers out of temp.	
Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr): <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.
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes date/time/ID/Analysis	
All containers needing acid/base pres. have been checked? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A exceptions: VOA, coliform, TOC, O&G	10. (Circle) <u>HNO3</u> H2SO4 NaOH NaOH/ZnAc
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	
Residual Chlorine Check (SVOC 625 Pest/PCB 608)	11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)	12. Present Absent
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Headspace Wisconsin Sulfide <input type="checkbox"/> Yes <input type="checkbox"/> No	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	16.
Project Manager Review	
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Sufficient Volume: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hunt

Date: 7/23/16

Sample Container Count

CLIENT: Heartland

COC PAGE 1 of 1

COC ID# _____

Project # 50150369

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH >12	
1	3																			✓		
2																				✓		
3																				✓		
4																				✓		
5																				✓		
6																				✓		
7																				✓		
8																				✓		
9																				✓		
10																				✓		
11																						
12																						

Container Codes

DG9H	40mL HCL amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1 liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag