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January 18, 2016

Mr. Jeff Jaeckels
Madison Gas & Electric Company
133 South Blair Street
Madison, WI 53703

SUBJECT: **Results of Phase 2 Environmental Site Assessment**
Livingston Street Yard Property
211 South Livingston Street
Madison, Wisconsin
True North Project #T215-030

Dear Mr. Jaeckels:

True North Consultants, Inc. (True North) has prepared this letter of results for the Phase 2 Environmental Site Assessment (ESA) completed at the Madison Gas & Electric Company (MGE) Livingston Street Yard (*property*) located at 211 South Livingston Street in Madison, Wisconsin (**Figure 1**). The scope of work was developed based on the findings of Phase 1 ESA completed by Midwest Environics, Inc. (MEI) in October 2015.

Background

It is True North's understanding that MGE is considering selling or leasing the *property* and desired an evaluation of the environmental liabilities that might be associated with the *property*. MGE retained MEI to complete a Phase 1 ESA at the *property* in October 2015. MEI identified current and historical industrial use of the *property* and reported historical presence of various underground storage tanks (USTs) and aboveground storage tanks (ASTs) as *recognized environmental conditions* (RECs) for the *property*. As a result of these findings, MGE retained True North to develop a scope of work for the Phase 2 ESA and implement this scope of work. The Phase 2 ESA scope is described in the following section.

The *property* consists of approximately 2.62 acres of land that is used by MGE as an equipment storage yard and is referred to as the Livingston Street Yard. The *property* has a metal transformer shop building, a canopy storage area, and two metal sheds located on it. Pavement consists of asphalt and packed-gravel areas. The layout of the property and the location of some of the historic USTs and ASTs identified at the *property* is provided in **Figure 2**.

Scope of Work

True North completed the following Phase 2 ESA activities:

- Prepared Site Specific Health and Safety Plan.
- Coordinated drilling and laboratory subcontractors, arranged for utility clearance, and corresponded with appropriate site contacts to facilitate field activities including on-site meeting with drilling subcontractor and MGE health and safety personnel.
- Reviewed the MEI Phase 1 ESA and attempted to identify the former locations of ASTs and USTs in order to facilitate location of the soil borings.
- Supervised the installation of 12 soil borings at the *property*, at approximate locations identified on the attached **Figure 3**, utilizing direct-push technology (DPT) drilling methods.
- Collected 12 soil samples and five groundwater samples from the 12 soil borings.
- Submitted the 12 soil samples to Pace Analytical Services, Inc. (Pace) for analysis of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and RCRA metals.
- Submitted a subset of six of the soil samples to Pace for analysis of gasoline range organics (GRO), diesel range organics (DRO), polychlorinated biphenyls (PCBs), toxicity characteristic leaching procedure (TCLP) VOCs, and TCLP RCRA metals to assist with profiling contaminated soils for landfill disposal.
- Submitted five groundwater samples for laboratory analysis of VOCs.

This letter was prepared to summarize the Phase 2 ESA activities completed, report the results of the laboratory analysis, and provide conclusions based on the findings.

Field Activities

Direct-push technology (DPT) soil boring activities were completed at the *property* on November 9, 2015 by Soil Essentials, Ltd (Soil Essentials). Boring locations are identified on **Figure 3** as MGE-1 through MGE-12. Subsurface utilities were located by calling Digger's Hotline and private subsurface utilities were located by MGE prior to advancing borings at the *property*.

Each boring was completed to a depth of 6 to 15 feet below ground surface (bgs). Soil logging was completed by True North on a continuous basis until boring completion. Field screening was completed utilizing a photo-ionization detector (PID).

One soil sample from each boring was collected in laboratory-supplied containers by True North personnel. Groundwater samples were collected from the open boreholes at MGE-1, MGE-4, MGE-6, MGE-9, and MGE-11 and containerized in laboratory-supplied containers. All samples were immediately labelled and placed in a cooler with ice for transport to Pace in Green Bay, Wisconsin for laboratory analysis.

Results

Subsurface soils at the *property* generally consisted of industrial fill, peat, and clay. Industrial fill consisting of cinders, coal, foundry sand, and bricks was present above native peat to a depth of four to six feet bgs. Peat thicknesses ranged from approximately one to two feet and was underlain by native clay. Groundwater was encountered between approximately six and seven feet bgs. Copies of the boring logs and boring abandonment forms are included as an attachment.

Soil Sample Analytical Results

The Wisconsin Department of Natural Resources (WDNR) NR720 residual contaminant levels (RCLs) for some VOCs, PAHs, and metals were exceeded in the soil samples collected from numerous borings.

VOCs were not reported above RCLs in the soil samples from borings MGE-1 through MGE-5 and MGE-7 through MGE-11. Naphthalene and 1,2,4-trimethylbenzene were reported in exceedance of the Protection of Groundwater Pathway RCL in MGE-6(3-5').

Benzene was reported in exceedance of the Protection of Groundwater Pathway RCL in MGE-12(3-5'); however, the reported benzene concentration was also "J" flagged by Pace as an "estimated concentration at or above the limit of detection (LOD) and below the limit of quantitation (LOQ)".

PAHs were detected in all the soil samples with the exception of MGE-8(2-4'). RCL exceedances were reported in samples collected from MGE-1, MGE-2, MGE-3, MGE-5, MGE-6, MGE-7, MGE-9, and MGE-10.

The Industrial Direct-Contact RCL for benzo(a)pyrene was exceeded in samples MGE-6(3-5') and MGE-9(3-5'). No other Industrial Direct-Contact RCLs were exceeded in any of the samples collected.

The Non-Industrial Direct-Contact RCL was exceeded for one or more PAH analytes in samples collected from MGE-1, MGE-2, MGE-3, MGE-5, MGE-6, MGE-7, MGE-9, and MGE-10.

The Protection of Groundwater Pathway RCL was exceeded in MGE-9(3-5') for benzo(a)pyrene and for chrysene in MGE-1(2-4'), MGE-5(2-4'), MGE-6(3-5'), MGE-7(2-4'), and MGE-9(3-5'). No other Protection of Groundwater Pathway RCLs were exceeded in any of the samples collected.

RCRA metals were reported in all soil samples collected from the *property*. Although multiple RCL exceedances were reported, most of the concentrations reported were below the background threshold values (BTVs) established by the WDNR or "J" flagged by the laboratory, with the exception of arsenic and lead. Concentrations of arsenic exceeded one or more of the RCLs and exceeded the BTV, and was not "J" flagged by the laboratory in MGE-1(2-4'), MGE-5(2-4'), MGE-7(2-4'), and MGE-8(2-4'). Concentrations of lead exceeded one or more of the RCLs,

exceeded the BTV, and was not "J" flagged by the laboratory in MGE-3(3-5'), MGE-9(3-5'), and MGE-12(3-5').

No PCBs were detected in any of the soil samples collected from the *property*. No TCLP VOCs were reported above the laboratory detection limit in any of the samples collected from the *property*. No TCLP Metals were detected above the laboratory detection limit or were not "J" flagged by the laboratory in any of the samples collected from the *property*.

DRO was reported in all samples ranging from 5.8 milligrams per kilogram (mg/kg) or parts per million (ppm) in MGE-10(2-4') to 125,000 ppm in MGE-6(3-5'). GRO was reported above laboratory detection limits, without "J" flagging, in samples MGE-6(3-5') and MGE-12(3-5') at concentrations of 1,440 ppm and 7.0 ppm, respectively.

Groundwater Sample Analytical Results

Groundwater samples were collected from borings MGE-1, MGE-4, MGE-6, MGE-9, and MGE-11. Groundwater samples were collected through the open boreholes and submitted for laboratory analysis of VOCs.

The groundwater sample collected from boring MGE-11 was reported with a WDNR NR140 enforcement standard (ES) exceedance for naphthalene. Chloromethane was reported in all groundwater samples collected above the WDNR NR140 preventive action limit (PAL). Chloromethane can often be identified at sites where cinders are present and can also be found in areas that have been influenced by chlorinated water (e.g., municipal water).

Several other VOCs were detected below their respective ES and preventive action limits (PALs) in the samples collected from MGE-6 and MGE-11. Samples collected from MGE-1, MGE-4, and MGE-9 were reported with only the chloromethane concentration; no other VOC analytes were reported in these samples.

Analytical results are summarized in the attached **Table 1** through **Table 6**. A copy of the laboratory report and chain-of-custody documentation is included as an attachment.

Findings, Conclusions, and Recommendations

Based on the results of this limited Phase 2 environmental assessment, True North finds the following:

- Industrial fill is present across the *property* at thicknesses ranging from four to six feet.
- Soil with WDNR RCL exceedances for VOCs is present at MGE-6 and MGE-12.
- Soil with WDNR RCL exceedances for PAHs is present at numerous borings (MGE-1, MGE-2, MGE-3, MGE-5, MGE-6, MGE-7, MGE-9, and MGE-10).
- Lead and/or arsenic was detected in the soil samples collected from MGE-1, MGE-3, MGE-5, MGE-7, MGE-8, MGE-9, and MGE-12 at concentrations exceeding background threshold levels and applicable RCLs.

- No PCBs, TCLP VOCs, or TCLP Metals were identified in the soil samples collected from the *property*.
- GRO and/or DRO was reported at concentrations above laboratory detection limits in all the soil samples collected from the *property*.
- Groundwater with WDNR ES exceedances for naphthalene was reported in MGE-11.

True North concludes the following:

- Industrial fill including cinders, coal, foundry sand, and bricks, is present across the *property* at varying thicknesses.
- Soil at numerous borings has been impacted with VOC and PAH constituents and metals that are above regulatory limits.
- Groundwater contamination may exist at the *property* at concentrations above regulatory limits. A series of WDNR NR 141 groundwater monitoring wells would be required to be installed in order to determine the degree and extent of contaminated groundwater at the site.

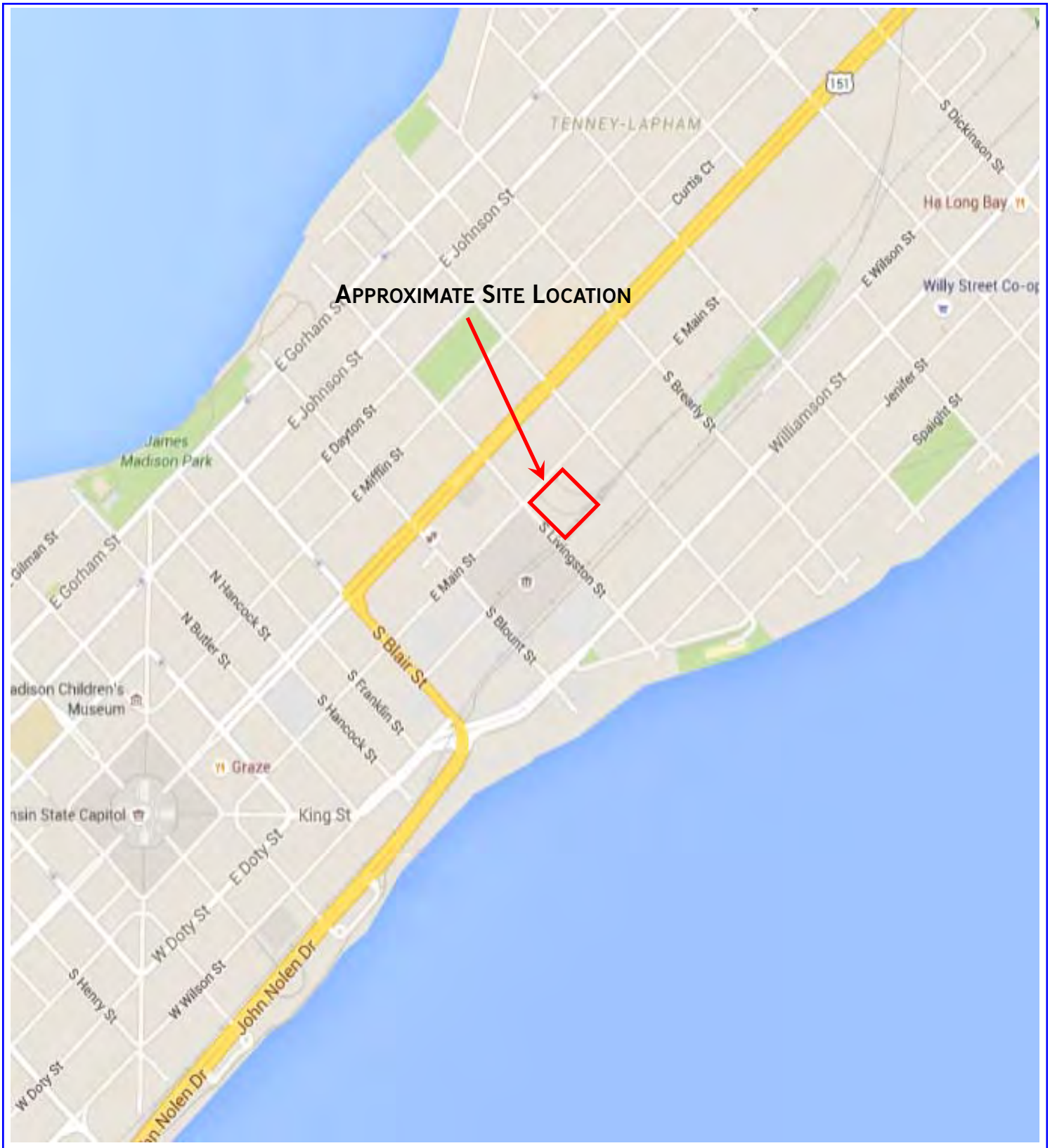
You can contact me at 608.577.8315 or cvalcheff@consulttruenorth.com with any questions. Thank you for the opportunity to assist you with this project.

Regards,
TRUE NORTH CONSULTANTS, INC.

Christopher H. Valcheff
Senior Project Manager

Enclosures:
Figure 1: Site Location Map
Figure 2: Site Layout Map
Figure 3: Soil Boring Locations
Table 1: Summary of Soil Sample Analytical Results: VOCs
Table 2: Summary of Soil Sample Analytical Results: PAHs
Table 3: Summary of Soil Sample Analytical Results: RCRA Metals
Table 4: Summary of Soil Sample Analytical Results: PCBs
Table 5: Summary of Groundwater Sample Analytical Results: VOCs
Table 6: Summary of Landfill Disposal Soil Sample Analytical Results: TCLP VOCs/TCLP Metals/GRO/DRO
Soil Boring Logs and Boring Abandonment Forms
Laboratory Report and Chain-of-Custody Documentation

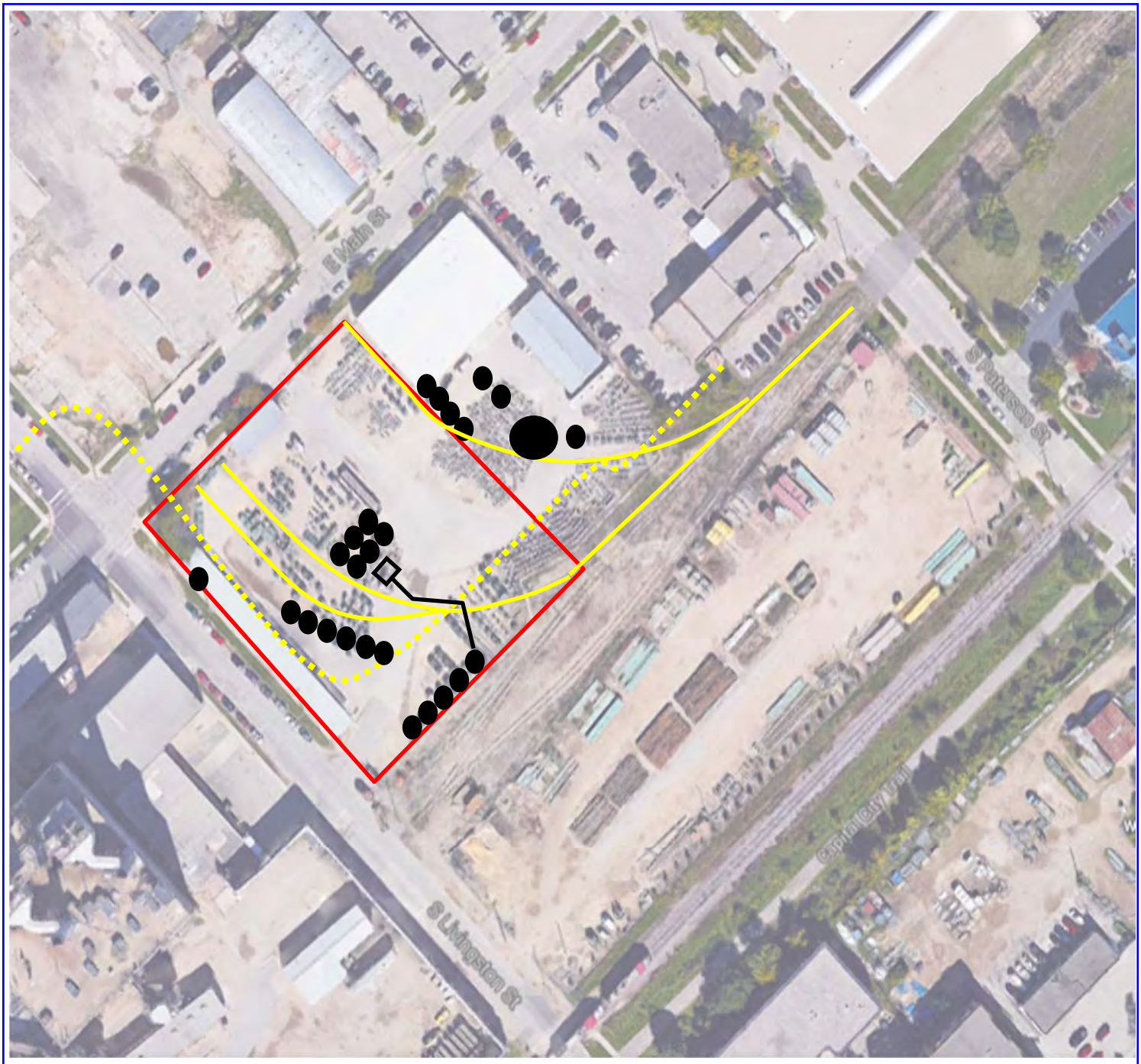
FIGURES



MAP ADAPTED FROM 2015 GOOGLE MAPS

APPROXIMATE SITE BOUNDARY

TRUE NORTH CONSULTANTS 525 JUNCTON ROAD SUITE 1900 MADISON, WISCONSIN 53717	SITE LOCATION MGE—LIVINGSTON STREET YARD 211 S. LIVINGSTON STREET MADISON, WISCONSIN CLIENT MADISON GAS AND ELECTRIC CO. 133 SOUTH BLAIR STREET MADISON, WI 53788	N NOT TO SCALE	FIGURE 1 PROJECT NUMBER T215-030 DATE 11/05/2015



2015 – Aerial Photograph Adapted From Google Maps

Proposed lot boundary line

Approximate Locations of Historic UST or AST

Approximate Location of historic pump house and underground pipeline

Approximate Location of historic railroad lines/spurs

Approximate location of existing ATC lines

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Madison, Wisconsin

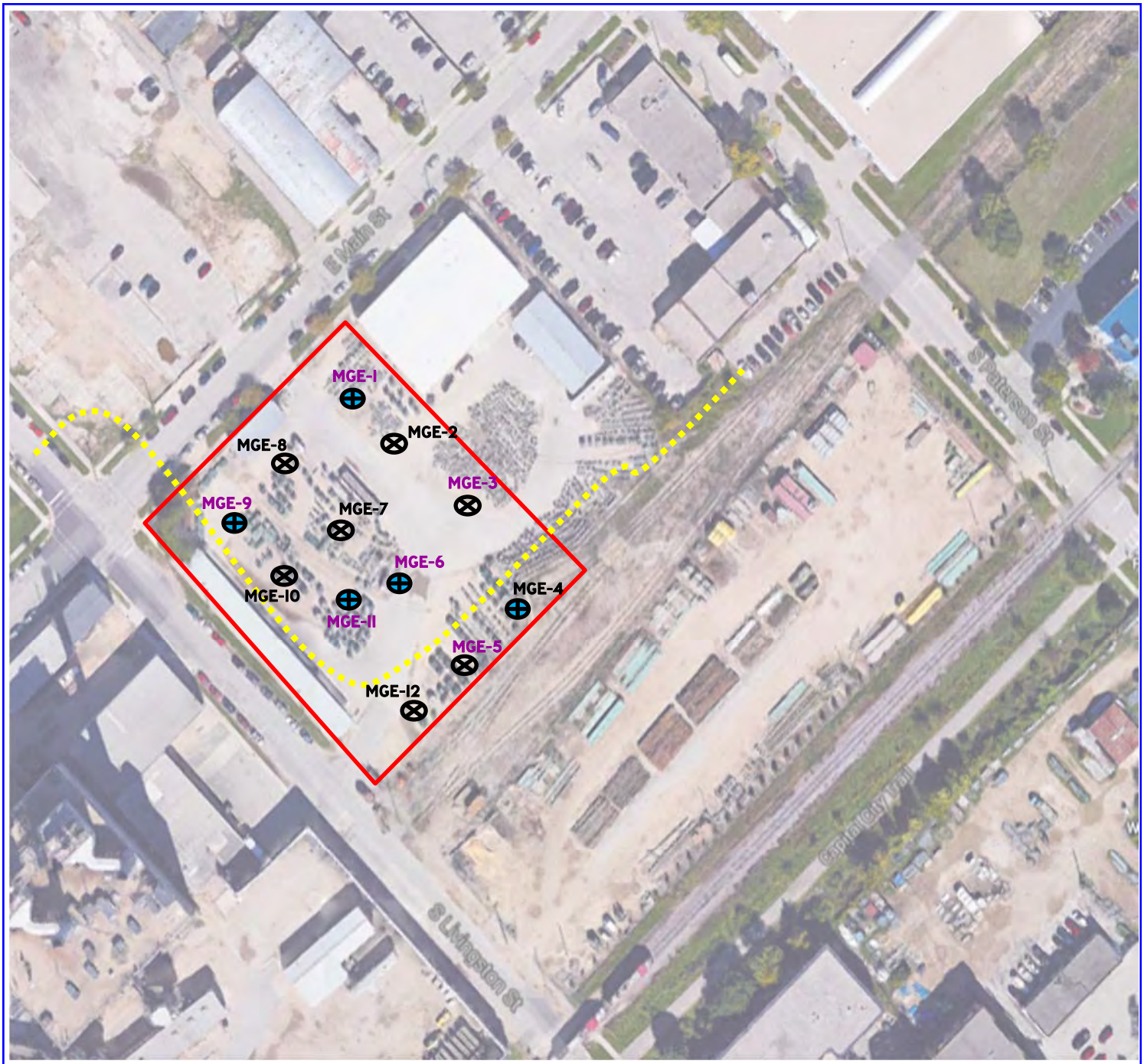
Client: Madison Gas and Electric Co.
133 South Blair Street
Madison, WI 53788

Not To Scale

Figure: 2

Project Number: T215-030

Date: 12/22/2015



2015 — Aerial Photograph Adapted From Google Maps

Proposed lot boundary line

MGE-1 Approximate Location of Landfill Profile Sample

Approximate location of existing ATC lines

MGE-2 Approximate soil boring locations with Identifier

MGE-1 Approximate soil boring location with GW samples with Identifier

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Not To Scale

Figure 3

Project Number T215-030

Date 12/23/2015

TABLES

Table 1

Summary of Soil Sample Analytical Results

Volatile Organic Compounds (VOCs)

Client: Madison Gas and Electric
Site: Livingston Street Yard
Project Number: T215-030

Sample Date: 11/9/2015
Laboratory: Pace Analytical
Matrix: Soil
Analytical Method: EPA 5035/5030B/8260

Contaminant of Concern	NR 720 RCL (ug/kg)			Sample ID:	MGE-1	MGE-2	MGE-3	MGE-4	MGE-5	MGE-6	MGE-7	MGE-8	MGE-9	MGE-10	MGE-11	MGE-12
				Sample Date:	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015
				PID (ppm)	0.0	0.0	0.6	0.0	103	450	47.3	0.8	0.00	0.0	325	0.0
				Depth:	2-4'	2-4'	3-5'	2-4'	2-4'	3-5'	2-4'	2-4'	3-5'	2-4'	3-5'	3-5'
	Non-Industrial Direct Contact	Industrial Direct Contact	Protection of Groundwater Pathway	Soil Type	Industrial Fill	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill	Industrial Fill / Peat	Industrial Fill / Peat / Clay	Industrial Fill / Peat	Industrial Fill / Peat / Clay	Industrial Fill
1,1,1,2-Tetrachloroethane	2,590	12,900	53.4		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,1,1-Trichloroethane	64,000	640,000	140.2		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,1,2,2-Tetrachloroethane	753	3,690	0.20		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,1,2-Trichloroethane	1,480	7,340	3.2		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,1,-Dichloroethane	4,720	23,700	482.8		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,1,-Dichloroethene	342,000	1,190,000	5.0		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,1,-Dichloropropene	NE	NE	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,2,3-Trichlorobenzene	62,600	818,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,2,3-Trichloropropane	5	95	51.9		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,2,4-Trichlorobenzene	22,000	98,700	408		<47.6	<47.6	<47.6	<47.6	<60.2	<476	<51.7	<47.6	<47.6	<47.6	<47.6	<47.6
1,2,4-Trimethylbenzene	89,800	219,000	1,382.1*		<25.0	<25.0	<25.0	<25.0	<31.6	1,680	<27.2	<25.0	52.7 J	<25.0	<25.0	73.8
1,2-Dibromo-3-chloropropane	8	99	0.2		<91.2	<91.2	<91.2	<91.2	<115	<912	<99.2	<91.2	<91.2	<91.2	<91.2	<91.2
1,2-Dibromoethane (EDB)	47	230	0.0282		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,2-Dichlorobenzene	376,000	376,000	1,168		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,2-Dichloroethane	608	3,030	2.8		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,2-Dichloropropane	1,330	6,620	3.3		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,3,5-Trimethylbenzene	182,000	182,000	1,382.1*		<25.0	<25.0	<25.0	<25.0	<31.6	319 J	<27.2	<25.0	<25.0	<25.0	<25.0	60.3 J
1,3-Dichlorobenzene	297,000	297,000	1,153		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,3-Dichloropropane	1,490,000	1,490,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
1,4-Dichlorobenzene	3,480	17,500	144		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
2,2-Dichloropropane	527,000	527,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	907,000	907,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
4-Chlorotoluene	253,000	253,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Benzene	1,490	7,410	5.1		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	38.2 J
Bromobenzene	354,000	679,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Bromochloromethane	232,000	976,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Bromodichloromethane	390	1,960	0.3		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Bromoform	23,600	115,000	2.3		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Bromomethane	10,300	46,000	5.1		<69.9	<69.9	<69.9	<69.9	<88.5	<699	<76.0	<69.9	<69.9	<69.9	<69.9	<69.9
Carbon Tetrachloride	854	4,250	3.9		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Chlorobenzene	392,000	761,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Chloroethane (Ethyl Chloride)	2,120,000	2,120,000	226.6		<67.0	<67.0	<67.0	<67.0	<84.8	<670	<72.8	<67.0	<67.0	<67.0	<67.0	<67.0
Chloroform	423	2,130	3.3		<46.4	<46.4	<46.4	<46.4	<58.8	<464	<50.5	<46.4	<46.4	<46.4	<46.4	<46.4
Chloromethane	171,000	720,000	15.5		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Dibromochloromethane	971	4,820	32		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Dibromomethane (Methylene Bromide)	35,000	151,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Dichlorodifluoromethane	135,000	571,000	3,086.3		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Diisopropyl Ether	2,260,000	2,260,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Ethylbenzene	7,470	37,000	1,570		<25.0	<25.0	<25.0	<25.0	<31.6	552 J	<27.2	<25.0	<25.0	<25.0	<25.0	51.5 J
Hexachloro-1,3-butadiene	1,510	7,450	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Isopropylbenzene (Cumene)	268,000	268,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	2,560	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Methyl-tert-butyl Ether (MTBE)	59,400	293,000	27.0		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Methylene Chloride	60,700	1,070,000	2.6		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Naphthalene	5,150	26,000	658.2		<40.0	<40.0	<40.0	<40.0	<50.7	9,920	<43.5	187 J	73.5 J	<40.0	<40.0	191 J
Styrene	867,000	867,000	220		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Tetrachloroethene	30,700	153,000	4.5		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Toluene	818,000	818,000	1,107.2		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	160
Trichloroethene	1,260	8,810	3.6		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Trichlorofluoromethane	1,120,000	1,230,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Vinyl Chloride	67	2,030	0.1		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
Xylene (Total)	258,000	258,000	3,940		<75.0	<75.0	<75.0	<75.0	<94.9	2,330	<81.5	<75.0	<75.0	<75.0	<75.0	322
cis-1,2-Dichloroethene	156,000	2,040,000	41.2		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
cis-1,3-Dichloropropene	1,220,000	1,220,000	0.3		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
n-Butylbenzene	108,000	108,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	7,640	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
n-Propylbenzene	264,000	264,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	4,730	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
p-Isopropyltoluene	162,000	162,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
sec-Butylbenzene	145,000	145,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	2,920	<27.2	<25.0	<25.0	<25.0	<25.0	38.6 J
tert-Butylbenzene	183,000	183,000	NE		<25.0	<25.0	<25.0	<25.0	<31.6	330 J	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
trans-1,2-Dichloroethene	1,560,000	1,860,000	62.8		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0
trans-1,3-Dichloropropene	1,570,000	1,570,000	0.3		<25.0	<25.0	<25.0	<25.0	<31.6	<250	<27.2	<25.0	<25.0	<25.0	<25.0	<25.0

Notes:
All data reported in micrograms per kilogram (ug/kg) unless otherwise noted.
NR720 RCLs taken from the WDNR Soil RCL Worksheets. Updated 12/15/2015 from WDNR RCLs updated 7/7/2015.
Protection of Groundwater Pathway based on DF=2.
* - combined 1,2,4- and 1,3,5-trimethylbenzenes
< = Analyte not detected (i.e. less than RL or MDL)
NE = No remediation objective established by the WDNR for this constituent.
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).

BOLD - Exceeds Non-Industrial Direct Contact RCLs.
BOLD/UNDERLINE - Exceeds Industrial Direct Contact RCLs.
Blue Shaded - Exceeds Protection of Groundwater Pathway RCLs.

TRUENORTH CONSULTANTS

Table 2

Summary of Soil Sample Analytical Results

Polynuclear Aromatic Hydrocarbons (PAHs)

Client: Madison Gas and Electric
Site: Livingston Street Yard
Project Number: T215-030

Sample Date: 11/9/2015
Laboratory: Pace Analytical
Matrix: Soil
Analytical Method: EPA 3546/8270

Contaminant of Concern	NR 720 RCL (ug/kg)			Sample ID:	MGE-1	MGE-2	MGE-3	MGE-4	MGE-5	MGE-6	MGE-7	MGE-8	MGE-9	MGE-10	MGE-11	MGE-12
				Sample Date:	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015
				PID (ppm)	0.0	0.0	0.6	0.0	103	450	47.3	0.8	0.00	0.0	325	0.0
				Depth:	2-4'	2-4'	3-5'	2-4'	2-4'	3-5'	2-4'	2-4'	3-5'	2-4'	3-5'	3-5'
	Non-Industrial Direct Contact	Industrial Direct Contact	Protection of Groundwater Pathway	Soil Type	Industrial Fill	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill	Industrial Fill / Peat	Industrial Fill / Peat / Clay	Industrial Fill / Peat	Industrial Fill / Peat / Clay	Industrial Fill
Acenaphthene	3,440,000	33,000,000	NE		<23.0	<11.9	<9.3	<9.7	26.3 J	101	22.3	<33.4	108 J	<9.0	<48.3	<10.0
Acenaphthylene	NE	NE	NE		33.0 J	<10.7	<8.3	<8.7	31.6 J	40.2 J	120	<29.9	99.3 J	<8.1	61.6 J	<9.0
Anthracene	17,200,000	100,000,000	197,727.3		90.7	<12.4	10.4 J	<10.1	58.2	334	111	<34.6	390	20.2	<50.1	<10.4
Benzo(a)anthracene	147	2,100	NE		**157**	30.6	18.1 J	11.9 J	102	**435**	118	<23.1	**542**	29.5	<33.5	14.5 J
Benzo(a)pyrene	15	211	470		**168**	**35.6**	**16.3 J**	11.0 J	**102**	**315**	**175**	<23.9	**574**	**26.3**	<34.5	9.1 J
Benzo(b)fluoranthene	148	2,110	479.3		**167**	43.4	18.6	12.2 J	111	**276**	138	<33.4	**373**	37.4	<48.3	<10.0
Benzo(g,h,i)perylene	NE	NE	NE		242	30.5	16.0 J	7.7 J	93.4	172	153	<25.4	305	21.5	<36.8	<7.6
Benzo(k)fluoranthene	1,480	21,100	NE		180	46.9	18.2 J	<10.7	105	238	122	<36.9	554	26	<53.5	<11.1
Chrysene	14,800	211,000	144.6		178	50.3	24.4	19.5	145	632	207	<30.9	776	40.5	<44.7	15.7 J
Dibenz(a,h)anthracene	15	211	NE		**61.2**	9.0 J	<6.8	<7.1	**27.3 J**	**67.9 J**	**61.7**	<24.5	**89.6 J**	<6.6	<35.4	<7.4
Fluoranthene	2,290,000	22,000,000	88,877.8		258	64.3	51.5	29.2	231	854	111	<33.4	1830	78.5	<48.3	27.2
Fluorene	2,290,000	22,000,000	14,802.7		<23.0	<11.9	<9.3	<9.7	28.8 J	183	57.1	<33.4	190	<9.0	<48.3	<10.0
Indeno(1,2,3-cd)pyrene	148	2,110	NE		**159**	26.2	12.5 J	<7.4	72.1	123	125	<25.4	**254**	17.5 J	<36.7	<7.6
1-Methylnaphthalene	15,600	53,100	NE		59.7	<11.9	9.9 J	36.9	178	774	223	<33.4	397	14.5 J	229	112
2-Methylnaphthalene	229,000	2,200,000	NE		71.6	13.8 J	13.1 J	61.0	275	991	349	<33.4	427	19.8	207	147
Naphthalene	5,150	26,000	658.2		80.9	<11.9	24.4	31.8	193	533	244	<33.4	500	26.9	95.3 J	68.3
Phenanthrene	NE	NE	NE		260	37.2	41.9	59.1	293	1210	352	<33.4	2930	81.1	<48.3	92.8
Pyrene	1,720,000	16,500,000	54,132.2		240	56.5	34.9	23.0	200	858	133	<33.4	1990	61.2	<48.3	23.2

Notes:
All data reported in micrograms per kilogram (ug/kg) unless otherwise noted.
NR720 RCLs taken from the WDNR Soil RCL Worksheets. Updated 12/15/2015 from WDNR RCLs updated 7/7/2015.
Protection of Groundwater Pathway based on DF=2.
< = Analyte not detected (i.e. less than RL or MDL)
NE = No remediation objective established by the WDNR for this constituent.
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).

BOLD - Exceeds Non-Industrial Direct Contact RCLs.
BOLD/UNDERLINE - Exceeds Industrial Direct Contact RCLs.
Blue Shaded - Exceeds Protection of Groundwater Pathway RCLs.

TRUENORTH CONSULTANTS

Table 3

Summary of Soil Sample Analytical Results

RCRA Metals

Client: Madison Gas and Electric
Site: Livingston Street Yard
Project Number: T215-030

Sample Date: 11/9/2015
Laboratory: Pace Analytical
Matrix: Soil
Analytical Method: EPA 3050/6010 and 7471/7471

Contaminant of Concern	NR 720 RCL (mg/kg)			Background Threshold Value	Sample ID:	MGE-1	MGE-2	MGE-3	MGE-4	MGE-5	MGE-6	MGE-7	MGE-8	MGE-9	MGE-10	MGE-11	MGE-12
					Sample Date:	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015
					PID (ppm)	0.0	0.0	0.6	0.0	103	450	47.3	0.8	0.00	0.0	325	0.0
					Depth:	2-4'	2-4'	3-5'	2-4'	2-4'	3-5'	2-4'	2-4'	3-5'	2-4'	3-5'	3-5'
	Non-Industrial Direct Contact	Industrial Direct Contact	Protection of Groundwater Pathway		Soil Type	Industrial Fill	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill	Industrial Fill / Peat	Industrial Fill / Peat / Clay	Industrial Fill / Peat	Industrial Fill / Peat / Clay	Industrial Fill
Arsenic	0.613	2.39	0.584	8		**9.3**	**5.3**	**5.7**	**9.6 J**	**11.4**	**7.1**	**18.5**	**16.5**	**20.8 J**	**5.3**	**7.6**	**16.9 J**
Barium	15,300	100,000	164.8	364		142	54.0	68.1	88.2	138	70.8	92.8	173	59.1	36.8	31.6	65.3
Cadmium	70	798	0.752	1		0.26 J	0.61 J	0.28 J	2.2 J	0.36 J	2.3	0.84 J	<0.26	2.9 J	0.12 J	<0.072	<0.68
Chromium (total/VI)	NE/0.293*	NE/5.57*	360,000* **	44/NE		12.4	10.7	8.9	14.6	19.6	7.7	10.2	5.8	8.9	7.0	8.8	13.1
Lead	400	800	27	52		8.7	50.7	**864**	43.9	16.5	37.2	31.2	18.1	54.3	0.022 J	5.2	61.8
Selenium	391	5,110	0.52	NE		5.1 J	1.5 J	1.3 J	2.6	2.7 J	1.6 J	2.2 J	<3.0	<2.0	0.84 J	<0.84	2.4
Silver	391	5,110	0.85	NE		1.4 J	0.96 J	0.74 J	0.98 J	1.5 J	0.75 J	0.50 J	1.5 J	1.5 J	0.46 J	0.67 J	0.89 J
Mercury	3.13	3.13	0.208	NE		0.10	0.044	0.030	0.0046 J	0.036	0.038	0.0093 J	0.059	0.028	0.014	0.0084 J	0.035

Notes:
All data reported in milligrams per kilogram (mg/kg) unless otherwise noted.
NR720 RCLs taken from the WDNR Soil RCL Worksheets. Updated 12/15/2015 from WDNR RCLs updated 7/7/2015.
Protection of Groundwater Pathway based on DF=2.
* - Chromium VI only, NE for total Chromium.
** - No Chromium VI
< = Analyte not detected (i.e. less than RL or MDL)
NE = No remediation objective established by the WDNR for this constituent.
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).

BOLD - Exceeds Non-Industrial Direct Contact RCLs.
BOLD/UNDERLINE - Exceeds Industrial Direct Contact RCLs.
Blue Shaded - Exceeds Protection of Groundwater Pathway RCLs.

TRUENORTH CONSULTANTS

Table 4

Summary of Soil Sample Analytical Results

Polychlorinated Biphenyls

Client: Madison Gas and Electric
Site: Livingston Street Yard
Project Number: T215-030

November 9, 2015
Pace Analytical Services, Inc.
Soil
EPA 3541/8082

Contaminant of Concern	NR 720 RCL (ug/kg)			Sample ID:	MGE-1	MGE-3	MGE-5	MGE-6	MGE-10	MGE-12
				Sample Date:	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015
				PID (ppm)	0.0	0.6	103	450	0.0	0.0
				Depth:	2-4'	3-5'	2-4'	3-5'	2-4'	3-5'
	Non-Industrial Direct Contact	Industrial Direct Contact	Protection of Groundwater Pathway	Soil Type	Industrial Fill	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill
Aroclor 1016	3,930	20,500	NE		<68.9	<27.9	<52.8	<31.3	<27.1	<30.1
Aroclor 1221	171	622	NE		<68.9	<27.9	<52.8	<31.3	<27.1	<30.1
Aroclor 1232	170	620	NE		<68.9	<27.9	<52.8	<31.3	<27.1	<30.1
Aroclor 1242	213	723	NE		<68.9	<27.9	<52.8	<31.3	<27.1	<30.1
Aroclor 1248	208	713	NE		<68.9	<27.9	<52.8	<31.3	<27.1	<30.1
Aroclor 1254	213	724	NE		<68.9	<27.9	<52.8	<31.3	<27.1	<30.1
Aroclor 1260	216	731	NE		<68.9	<27.9	<52.8	<31.3	<27.1	<30.1
Total PCB	NE	NE	9.4		<68.9	<27.9	<52.8	<31.3	<27.1	<30.1

Notes:
All data reported in micrograms per kilogram (ug/kg) unless otherwise noted.
NR720 RCLs taken from the WDNR Soil RCL Worksheets. Updated 12/15/2015 from WDNR RCLs updated 7/7/2015.
Protection of Groundwater Pathway based on DF=2.
< = Analyte not detected (i.e. less than RL or MDL)
NE = No remediation objective established by the WDNR for this constituent.

BOLD - Exceeds Non-Industrial Direct Contact RCLs.
BOLD/UNDERLINE - Exceeds Industrial Direct Contact RCLs.
Blue Shaded - Exceeds Protection of Groundwater Pathway RCLs.

TRUE NORTH CONSULTANTS

Table 5

Summary of Groundwater Sample Analytical Results

Volatile Organic Compounds (VOCs)

Client: Madison Gas and Electric
Site: Livingston Street Yard
Project Number: T215-030

Sample Date: 11/9/2015
Laboratory: Pace Analytical
Matrix: Groundwater
Analytical Method: EPA 8260

Contaminant of Concern	NR 140 Contaminant Levels (ug/L)		Sample ID:	MGE-1	MGE-4	MGE-6	MGE-9	MGE-11
	Enforcement Standard (ES)	Preventive Action Limit (PAL)	Sample Date:	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015
1,1,1,2-Tetrachloroethane	70	7		<0.18	<0.18	<0.18	<0.18	<0.18
1,1,1-Trichloroethane	200	40		<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	0.2	0.02		<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2_Trichloroethane	5	0.5		<0.20	<0.20	<0.20	<0.20	<0.20
1,1,-Dichloroethane	850	85		<0.24	<0.24	<0.24	<0.24	<0.24
1,1,-Dichloroethene	7	0.7		<0.41	<0.41	<0.41	<0.41	<0.41
1,1,-Dichloropropene	NE	NE		<0.44	<0.44	<0.44	<0.44	<0.44
1,2,3-Trichlorobenzene	NE	NE		<2.1	<2.1	<2.1	<2.1	<2.1
1,2,3-Trichloropropane	60	12		<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	70	14		<2.2	<2.2	<2.2	<2.2	<2.2
1,2,4-Trimethylbenzene	480*	96*		<0.50	<0.50	0.56 J	<0.50	<0.50
1,2-Dibromo-3-chloropropane	0.2	0.02		<2.2	<2.2	<2.2	<2.2	<2.2
1,2-Dibromoethane (EDB)	0.05	0.005		<0.18	<0.18	<0.18	<0.18	<0.18
1,2-Dichlorobenzene	600	60		<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	5	0.5		<0.17	<0.17	<0.17	<0.17	<0.17
1,2-Dichloropropane	5	0.5		<0.23	<0.23	<0.23	<0.23	<0.23
1,3,5-Trimethylbenzene	480*	96*		<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	600	120		<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	NE	NE		<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	75	15		<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	NE	NE		<0.48	<0.48	<0.48	<0.48	<0.48
2-Chlorotoluene	NE	NE		<0.50	<0.50	<0.50	<0.50	<0.50
4-Chlorotoluene	NE	NE		<0.21	<0.21	<0.21	<0.21	<0.21
Benzene	5	0.5		<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	NE	NE		<0.23	<0.23	<0.23	<0.23	<0.23
Bromochloromethane	NE	NE		<0.34	<0.34	<0.34	<0.34	<0.34
Bromodichloromethane	0.6	0.06		<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	4.4	0.44		<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	10	1		<2.4	<2.4	<2.4	<2.4	<2.4
Carbon Tetrachloride	5	0.5		<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	NE	NE		<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane (Ethyl Chloride)	400	80		<0.37	<0.37	<0.37	<0.37	<0.37
Chloroform	6	0.6		<2.5	<2.5	<2.5	<2.5	<2.5
Chloromethane	30	3		8.3	6.5	6.2	5.3	4.9
Dibromochloromethane	60	6		<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane (Methylene Bromide)	NE	NE		<0.43	<0.43	<0.43	<0.43	<0.43
Dichlorodifluoromethane	1,000	200		<0.22	<0.22	<0.22	<0.22	<0.22
Diisopropyl Ether	NE	NE		<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	700	140		<0.50	<0.50	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene	NE	NE		<2.1	<2.1	<2.1	<2.1	<2.1
Isopropylbenzene (Cumene)	NE	NE		<0.14	<0.14	8.6	<0.14	6.6
Methyl-tert-butyl Ether (MTBE)	60	12		<0.17	<0.17	<0.17	<0.17	<0.17
Methylene Chloride	5	0.5		<0.23	<0.23	<0.23	<0.23	<0.23
Naphthalene	100	10		<2.5	<2.5	3.8 J	<2.5	13.9
Styrene	100	10		<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	5	0.5		<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	800	160		<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	5	0.5		<0.33	<0.33	<0.33	<0.33	<0.33
Trichlorofluoromethane	3,490	698		<0.18	<0.18	<0.18	<0.18	<0.18
Vinyl Chloride	0.2	0.02		<0.18	<0.18	<0.18	<0.18	<0.18
Xylene (Total)	2,000	400		<1.5	<1.5	<1.5	<1.5	<1.5
cis-1,2-Dichloroethene	70	7		<0.26	<0.26	<0.26	<0.26	<0.26
cis-1,3-Dichloropropene	0.4	0.04		<0.50	<0.50	<0.50	<0.50	<0.50
n-Butylbenzene	NE	NE		<0.50	<0.50	7.9	<0.50	5.3
n-Propylbenzene	NE	NE		<0.50	<0.50	12.7	<0.50	9.8
p-Isopropyltoluene	NE	NE		<0.50	<0.50	0.55 J	<0.50	0.63 J
sec-Butylbenzene	NE	NE		<2.2	<2.2	5.3	<2.2	4.0 J
tert-Butylbenzene	NE	NE		<0.18	<0.18	0.76 J	<0.18	0.66 J
trans-1,2-Dichloroethene	100	20		<0.26	<0.26	<0.26	<0.26	<0.26
trans-1,3-Dichloropropene	0.4	0.04		<0.23	<0.23	<0.23	<0.23	<0.23

Notes:
All data reported in micrograms per liter (ug/L) unless otherwise noted.
* - combined 1,2,4- and 1,3,5-trimethylbenzenes
< = Analyte not detected (i.e. less than RL or MDL)
NA = This constituent was not analyzed.
NE = No remediation objective established by the WDNR for this constituent.
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).

BOLD - Exceeds the WDNR PAL.
BOLD/Blue Shaded - Exceeds the WDNR ES.

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Table 6

Summary of Landfill Disposal Soil Sample Analytical

TCLP VOCs/TCLP Metals/GRO/DRO

Client:	Madison Gas and Electric	Sample Date:	11/9/2015
Site:	Livingston Street Yard	Laboratory:	Pace Analytical
Project Number:	T215-030	Matrix:	Soil
		Analytical Method:	EPA 1311/8260; EPA 1311/3010/6010; EPA 1311/7470; WI MOD GRO; WI MOD DRO

Contaminant of Concern	Sample ID:	MGE-1	MGE-3	MGE-5	MGE-6	MGE-10	MGE-12
	Sample Date:	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015	11/9/2015
	PID (ppm)	0.0	0.6	103	450	0.0	0.0
	Depth:	2-4'	3-5'	2-4'	3-5'	2-4'	3-5'
	Soil Type	Industrial Fill	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill / Peat	Industrial Fill
TCLP Metals (mg/L)							
Arsenic		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Barium		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Cadmium		<0.012	<0.012	<0.012	<0.012	<0.012	<0.012
Chromium		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Lead		0.036 J	<0.015	0.034 J	0.018 J	0.022 J	0.026 J
Selenium		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Silver		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Mercury		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
TCLP VOCs (ug/L)							
1,1-Dichloroethene		<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
1,2-Dichloroethane		<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
2-Butanone (MEK)		<29.8	<29.8	<29.8	<29.8	<29.8	<29.8
Benzene		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Tetrachloride		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Tetrachloroethene		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene		<3.3	<3.3	<3.3	<3.3	<3.3	<3.3
Vinyl Chloride		<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
GRO (mg/kg)		<6.9	<2.8	8.7 J	1,440	<2.7	7.0
DRO (mg/kg)		717	19.5	420	125,000	5.8	11.5

Notes:
TCLP - Toxicity Characteristic Leaching Potential
VOCs - Volatile Organic Compounds
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
< = Analyte not detected (i.e. less than RL or MDL)
J = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).

TRUENORTH CONSULTANTS

ATTACHMENTS

Soil Boring Logs and Boring Abandonment Forms
Laboratory Reports and Chain-of-Custody Documentation

TRUENORTH CONSULTANTS

Project Name: MGE-LIVINGSTON STREET YARD
Project Location: MADISON, WI
Project Number: T215-030

Log of Boring

Sheet 1 of 1

BOREHOLE LOCATION: MGE-1		
DATE BEGAN: 11/9/15	DATE FINISHED: 11/9/15	FIELD GEOLOGIST: CHV
GROUND SURFACE ELEVATION:	TOTAL DEPTH OF BOREHOLE:	CHECKED BY:
GWL DATE :	GWL DEPTH:	
DRILLING METHOD: DPT	CONTRACTOR: SOIL ESSENTIALS	

Water Level Elevation, feet	Depth, feet	Sample No.	Sample Method	Sample Type	Penetrometer (tons/ft2)	REC (in.)	USCS	DESCRIPTION	PID	Sample Location	REMARKS
	0							ROCK / BASE			
								INDUSTRIAL FILL - BLACK - STIFF - DAMP - NO ODOR SOME SILT - MOSTLY CINDERS	0.0		MGE 1 (2-4') @ 0930
	5							GRAVEL - DAMP TO MOIST - DK BROWN			MGE-1 @ 0935
								PEAT DK BROWN			WATER @ ~6'
								CLAY - STIFF - ~~DRY~~ WET - SOFT - HI PLASTICITY NO ODOR	0.0		
	10										
	15							EOB @ 15 FEET			
	20										

Sp = Split Spoon Sample Pp = Push Probe Sample Ha = Hand Auger D = Discrete St = Shelby Tube C = Composite

State of Wis., Dept. of Natural Resources
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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DANE	MGE-1	

Latitude / Longitude (see instructions)	Format Code	Method Code
43.080192 N	☑ DD	☐ GPS008
-89373209 W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range	or Gov't Lot #
	SE	13	7 N	9 ☑ E ☐ W	

Well Street Address: 211 South Livingston Street

Well City, Village or Town	Well ZIP Code	Subdivision Name	Lot #
City of Madison	53703		

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	MGE-1

2. Facility / Owner Information

Facility Name: MGE - Livingston Street Yard

Facility ID (FID or PWS):

License/Permit/Monitoring #: MGE

Original Well Owner: Madison Gas and Electric Company

Present Well Owner: Madison Gas and Electric Company

Mailing Address of Present Owner: 133 South Blair Street

City of Present Owner	State	ZIP Code
Madison	WI	53703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): November 9, 2015

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Direct-Push Technology (e.g., Geoprobe)

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15 feet	NA

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inch	NA

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6 to 7 feet

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	22.5 pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soil Essentials		11/09/2015

Street or Route	Telephone Number
W6306 State Road 39	(608-527-2355)

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
New Glarus	WI	53574	For Soil Essentials	12/30/2015

DNR Use Only

Date Received	Noted By

Comments:

TRUENORTH CONSULTANTS

Project Name: MGE-LIVINGSTON STREET YARD
Project Location: MADISON, WI
Project Number: T215-030

Log of Boring

Sheet 1 of 1

BOREHOLE LOCATION: MGE-2		
DATE BEGAN: 11/9/15	DATE FINISHED: 11/9/15	FIELD GEOLOGIST: CHV
GROUND SURFACE ELEVATION:	TOTAL DEPTH OF BOREHOLE:	CHECKED BY:
GWL DATE :	GWL DEPTH:	
DRILLING METHOD: DPT	CONTRACTOR: SOIL ESSENTIALS	

Water Level Elevation, feet	Depth, feet	Sample No.	Sample Method	Sample Type	Penetrometer (tons/ft2)	REC (in.)	USCS	DESCRIPTION	PID	Sample Location	REMARKS
	0							GRAVEL BASE			
								INDUSTRIAL FILL - CINDERS / BLACK - BLACK BROWN SAND / GENERAL FILL			
								GRAVEL - BLACK - CINDERS	0.0		MGE-2(2-4') 09:00
								PEAT			
	5							CLAY - GRAY - SOFT - HI PLASTICITY - WET - SLIGHT ODOR	0.3		
									0.3		
	10							EOB @ 10'			
	15										
	20										

Sp = Split Spoon Sample Pp = Push Probe Sample Ha = Hand Auger D = Discrete St = Shelby Tube C = Composite

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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DANE	MGE-2	

Latitude / Longitude (see instructions)	Format Code	Method Code
43.080192 N	☑ DD	☐ GPS008
-89373209 W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	SE	13	7 N	9 ☑ E ☐ W

Well Street Address: 211 South Livingston Street

Well City, Village or Town	Well ZIP Code	Subdivision Name	Lot #
City of Madison	53703		

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	MGE-2

2. Facility / Owner Information

Facility Name: MGE - Livingston Street Yard

Facility ID (FID or PWS):

License/Permit/Monitoring #: MGE

Original Well Owner: Madison Gas and Electric Company

Present Well Owner: Madison Gas and Electric Company

Mailing Address of Present Owner: 133 South Blair Street

City of Present Owner	State	ZIP Code
Madison	WI	53703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): November 9, 2015

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Direct-Push Technology (e.g., Geoprobe)

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inch	NA

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6 to 7 feet

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	10	15 pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soil Essentials		11/09/2015

Street or Route	Telephone Number
W6306 State Road 39	(608-527-2355)

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
New Glarus	WI	53574	For Soil Essentials	12/30/2015

DNR Use Only

Date Received	Noted By

Comments:

TRUENORTH CONSULTANTS

Project Name: MGE-LIVINGSTON STREET YARD
Project Location: MADISON, WI
Project Number: T215-030

Log of Boring

Sheet 1 of 1

BOREHOLE LOCATION: MGE-3		
DATE BEGAN: 11/9/15	DATE FINISHED: 11/9/15	FIELD GEOLOGIST: CHV
GROUND SURFACE ELEVATION:	TOTAL DEPTH OF BOREHOLE:	CHECKED BY:
GWL DATE :	GWL DEPTH:	
DRILLING METHOD: DPT	CONTRACTOR: SOIL ESSENTIALS	

Water Level Elevation, feet	Depth, feet	Sample No.	Sample Method	Sample Type	Penetrometer (tons/ft2)	REC (in.)	USCS	DESCRIPTION	PID	Sample Location	REMARKS
0	0							ASPHALT SAND/GRAVEL CONCRETE INDUSTRIAL FILL - BLACK/CINDERS	0.6		MGE-3(3-5') @ 0715
-5	5							PEAT CLAY - LT. GREY - SOFT - HI PLASTICITY - WET NO ODOR	0.0		
-10	10							EOBS @ 10'	0.0		
-15	15										
-20	20										

Sp = Split Spoon Sample Pp = Push Probe Sample Ha = Hand Auger D = Discrete St = Shelby Tube C = Composite

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DANE	MGE-3	

Latitude / Longitude (see instructions): 43.080192 N / -89373209 W

Format Code: ☑ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	SE	13	7 N	9 ☑ E ☐ W

Well Street Address: 211 South Livingston Street

Well City, Village or Town	Well ZIP Code
City of Madison	53703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	MGE-3

2. Facility / Owner Information

Facility Name: MGE - Livingston Street Yard

Facility ID (FID or PWS):

License/Permit/Monitoring #: MGE

Original Well Owner: Madison Gas and Electric Company

Present Well Owner: Madison Gas and Electric Company

Mailing Address of Present Owner: 133 South Blair Street

City of Present Owner	State	ZIP Code
Madison	WI	53703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): November 9, 2015

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Direct-Push Technology (e.g., Geoprobe)

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inch	NA

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6 to 7 feet

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	10	15 pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soil Essentials		11/09/2015

Street or Route	Telephone Number
W6306 State Road 39	(608-527-2355)

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
New Glarus	WI	53574	For Soil Essentials	12/30/2015

DNR Use Only

Date Received	Noted By

Comments:

TRUENORTH CONSULTANTS

Project Name: MGE-LIVINGSTON STREET YARD
Project Location: MADISON, WI
Project Number: T215-030

Log of Boring

Sheet 1 of 1

BOREHOLE LOCATION: MGE-4		
DATE BEGAN: 11/9/15	DATE FINISHED: 11/9/15	FIELD GEOLOGIST: CHV
GROUND SURFACE ELEVATION:	TOTAL DEPTH OF BOREHOLE:	CHECKED BY:
GWL DATE :	GWL DEPTH:	
DRILLING METHOD: DPT	CONTRACTOR: SOIL ESSENTIALS	

Water Level Elevation, feet	Depth, feet	Sample No.	Sample Method	Sample Type	Penetrometer (tons/ft2)	REC (in.)	USCS	DESCRIPTION	PID	Sample Location	REMARKS
0	0							GRAVEL/SAND			
								INDUSTRIAL FILL - CINDERS/BRICK			
									0.0		MGE4 (2-4') @ 09:45
								PEAT			
-5	5							GRAVEL - BLACK - CINDERS - BRICK			
								CLAY - LT. BROWN, HI PLASTICITY - WET NO ODOR	0.0		MGE 4 10:00
									0.0		
-10	10							EOB @ 10'			
-15	15										
-20	20										

Sp = Split Spoon Sample Pp = Push Probe Sample Ha = Hand Auger D = Discrete St = Shelby Tube C = Composite

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DANE	MGE-4	

Latitude / Longitude (see instructions): 43.080192 N, -89373209 W
Format Code: ☑ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	SE	13	7 N	9 ☑ E ☐ W

Well Street Address: 211 South Livingston Street

Well City, Village or Town	Well ZIP Code
City of Madison	53703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	MGE-4

2. Facility / Owner Information

Facility Name: MGE - Livingston Street Yard
Facility ID (FID or PWS):
License/Permit/Monitoring #: MGE
Original Well Owner: Madison Gas and Electric Company
Present Well Owner: Madison Gas and Electric Company
Mailing Address of Present Owner: 133 South Blair Street

City of Present Owner	State	ZIP Code
Madison	WI	53703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): November 9, 2015

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Direct-Push Technology (e.g., Geoprobe)

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inch	NA

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6 to 7 feet

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	10	15 pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soil Essentials		11/09/2015

Street or Route	Telephone Number
W6306 State Road 39	(608-527-2355)

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
New Glarus	WI	53574	For Soil Essentials	12/30/2015

DNR Use Only

Date Received	Noted By

Comments

TRUENORTH CONSULTANTS

Project Name: MGE-LIVINGSTON STREET YARD
Project Location: MADISON, WI
Project Number: T215-030

Log of Boring

Sheet 1 of 1

BOREHOLE LOCATION: MGE-5		
DATE BEGAN: 11/9/15	DATE FINISHED: 11/9/15	FIELD GEOLOGIST: CHV
GROUND SURFACE ELEVATION:	TOTAL DEPTH OF BOREHOLE:	CHECKED BY:
GWL DATE :	GWL DEPTH:	
DRILLING METHOD: DPT	CONTRACTOR: SOIL ESSENTIALS	

Water Level Elevation, feet	Depth, feet	Sample No.	Sample Method	Sample Type	Penetrometer (tons/ft2)	REC (in.)	USCS	DESCRIPTION	PID	Sample Location	REMARKS
0	0							GRAVEL INDUSTRIAL FILL	0.0		MGE-5 (2-4') 10:15
-5	5							TPAT GRAVEL/FILL - CINDERS CLAY -	103 103		
-10	10							EOB @ 10'	104		
-15	15										
-20	20										

Sp = Split Spoon Sample Pp = Push Probe Sample Ha = Hand Auger D = Discrete St = Shelby Tube C = Composite

State of Wis., Dept. of Natural Resources
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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DANE	MGE-5	

Latitude / Longitude (see instructions): 43.080192 N, -89373209 W
Format Code: ☑ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	SE	13	7 N	9 ☑ E ☐ W

Well Street Address: 211 South Livingston Street

Well City, Village or Town	Well ZIP Code
City of Madison	53703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	MGE-5

2. Facility / Owner Information

Facility Name: MGE - Livingston Street Yard
Facility ID (FID or PWS):
License/Permit/Monitoring #: MGE
Original Well Owner: Madison Gas and Electric Company
Present Well Owner: Madison Gas and Electric Company
Mailing Address of Present Owner: 133 South Blair Street

City of Present Owner	State	ZIP Code
Madison	WI	53703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): November 9, 2015
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Direct-Push Technology (e.g., Geoprobe)

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inch	NA

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6 to 7 feet

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	10	15 pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soil Essentials		11/09/2015

Street or Route	Telephone Number
W6306 State Road 39	(608-527-2355)

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
New Glarus	WI	53574	For Soil Essentials	12/30/2015

DNR Use Only

Date Received	Noted By

Comments:

TRUENORTH CONSULTANTS

Project Name: MGE-LIVINGSTON STREET YARD
Project Location: MADISON, WI
Project Number: T215-030

Log of Boring

Sheet 1 of 1

BOREHOLE LOCATION: MGE-6		
DATE BEGAN: 11/9/15	DATE FINISHED: 11/9/15	FIELD GEOLOGIST: CHV
GROUND SURFACE ELEVATION:	TOTAL DEPTH OF BOREHOLE:	CHECKED BY:
GWL DATE :	GWL DEPTH:	
DRILLING METHOD: DPT	CONTRACTOR: SOIL ESSENTIALS	

Water Level Elevation, feet	Depth, feet	Sample No.	Sample Method	Sample Type	Penetrometer (tons/ft2)	REC (in.)	USCS	DESCRIPTION	PID	Sample Location	REMARKS
0	0							ASPHALT GRAVEL			
								INDUSTRIAL FILL CINDERS/COAL/BRICK	02		
									450		MGE 6 (3-5') 10:30
-5	5							PEAT			
								CLAY-LT. GRAY-WET	335		MGE-6 10:40
									284		
-10	10							EOB 10'			
-15	15										
-20	20										

Sp = Split Spoon Sample Pp = Push Probe Sample Ha = Hand Auger D = Discrete St = Shelby Tube C = Composite

State of Wis., Dept. of Natural Resources
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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DANE	MGE-6	

Latitude / Longitude (see instructions): 43.080192 N / -89373209 W
Format Code: ☑ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	SE	13	7 N	9 ☑ E ☐ W

Well Street Address: 211 South Livingston Street

Well City, Village or Town	Well ZIP Code
City of Madison	53703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	MGE-6

2. Facility / Owner Information

Facility Name: MGE - Livingston Street Yard
Facility ID (FID or PWS):
License/Permit/Monitoring #: MGE
Original Well Owner: Madison Gas and Electric Company
Present Well Owner: Madison Gas and Electric Company
Mailing Address of Present Owner: 133 South Blair Street

City of Present Owner	State	ZIP Code
Madison	WI	53703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): November 9, 2015
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Direct-Push Technology (e.g., Geoprobe)

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inch	NA

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6 to 7 feet

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	10	15 pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soil Essentials		11/09/2015

Street or Route	Telephone Number
W6306 State Road 39	(608-527-2355)

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
New Glarus	WI	53574	For Soil Essentials	12/30/2015

DNR Use Only

Date Received	Noted By

Comments

TRUENORTH CONSULTANTS

Project Name: MGE-LIVINGSTON STREET YARD
Project Location: MADISON, WI
Project Number: T215-030

Log of Boring

Sheet 1 of 1

BOREHOLE LOCATION: MGE-7		
DATE BEGAN: 11/9/15	DATE FINISHED: 11/9/15	FIELD GEOLOGIST: CHV
GROUND SURFACE ELEVATION:	TOTAL DEPTH OF BOREHOLE:	CHECKED BY:
GWL DATE :	GWL DEPTH:	
DRILLING METHOD: DPT	CONTRACTOR: SOIL ESSENTIALS	

Water Level Elevation, feet	Depth, feet	Sample No.	Sample Method	Sample Type	Penetrometer (tons/ft2)	REC (in.)	USCS	DESCRIPTION	PID	Sample Location	REMARKS
	0							GRAVEL SAND/FILL INDUSTRIAL FILL - CINDERS/BRICK			
	5							GRAVEL - BLACK - COARSE CINDERS PEAT CLAY - GREY	47.3 50.7		MGE-7 (2-4') 11:00
	10							EOB @ 10'	80.7		
	15										
	20										

Sp = Split Spoon Sample Pp = Push Probe Sample Ha = Hand Auger D = Discrete St = Shelby Tube C = Composite

State of Wis., Dept. of Natural Resources
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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DANE	MGE-7	

Latitude / Longitude (see instructions)	Format Code	Method Code
43.080192 N	☑ DD	☐ GPS008
-89373209 W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	SE	13	7 N	9 ☑ E ☐ W

Well Street Address: 211 South Livingston Street

Well City, Village or Town	Well ZIP Code
City of Madison	53703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	MGE-7

2. Facility / Owner Information

Facility Name: MGE - Livingston Street Yard

Facility ID (FID or PWS):

License/Permit/Monitoring #: MGE

Original Well Owner: Madison Gas and Electric Company

Present Well Owner: Madison Gas and Electric Company

Mailing Address of Present Owner: 133 South Blair Street

City of Present Owner	State	ZIP Code
Madison	WI	53703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): November 9, 2015

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Direct-Push Technology (e.g., Geoprobe)

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inch	NA

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6 to 7 feet

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	10	15 pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soil Essentials		11/09/2015

Street or Route	Telephone Number
W6306 State Road 39	(608-527-2355)

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
New Glarus	WI	53574	For Soil Essentials	12/30/2015

DNR Use Only

Date Received	Noted By

Comments:

TRUENORTH CONSULTANTS

Project Name: MGE-LIVINGSTON STREET YARD
Project Location: MADISON, WI
Project Number: T215-030

Log of Boring

Sheet 1 of 1

BOREHOLE LOCATION: MGE-8		
DATE BEGAN: 11/9/15	DATE FINISHED: 11/9/15	FIELD GEOLOGIST: CHV
GROUND SURFACE ELEVATION:	TOTAL DEPTH OF BOREHOLE:	CHECKED BY:
GWL DATE :	GWL DEPTH:	
DRILLING METHOD: DPT	CONTRACTOR: SOIL ESSENTIALS	

Water Level Elevation, feet	Depth, feet	Sample No.	Sample Method	Sample Type	Penetrometer (tons/ft2)	REC (in.)	USCS	DESCRIPTION	PID	Sample Location	REMARKS
	0							GRAVEL			
								INDUSTRIAL FILL			
								[redacted]			
								GRAVEL FILL - CINDERS	0.8		MGE-8 (2-4') 11:15
								PEAT			
-5	5							CLAY - BLUE/GRAY	0.0		
-10	10							EOB @ 10'	0.0		
-15	15										
-20	20										

Sp = Split Spoon Sample Pp = Push Probe Sample Ha = Hand Auger D = Discrete St = Shelby Tube C = Composite

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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DANE	MGE-8	

Latitude / Longitude (see instructions): 43.080192 N, -89373209 W
Format Code: ☑ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	SE	13	7 N	9 ☑ E ☐ W

Well Street Address: 211 South Livingston Street

Well City, Village or Town	Well ZIP Code
City of Madison	53703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	MGE-8

2. Facility / Owner Information

Facility Name: MGE - Livingston Street Yard
Facility ID (FID or PWS):
License/Permit/Monitoring #: MGE
Original Well Owner: Madison Gas and Electric Company
Present Well Owner: Madison Gas and Electric Company
Mailing Address of Present Owner: 133 South Blair Street

City of Present Owner	State	ZIP Code
Madison	WI	53703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): November 9, 2015
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Direct-Push Technology (e.g., Geoprobe)

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inch	NA

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6 to 7 feet

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	10	15 pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soil Essentials		11/09/2015

Street or Route	Telephone Number
W6306 State Road 39	(608-527-2355)

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
New Glarus	WI	53574	For Soil Essentials	12/30/2015

DNR Use Only

Date Received	Noted By

Comments:

TRUENORTH CONSULTANTS

Project Name: MGE - LIVINGSTON STREET YARD
Project Location: MADISON, WI
Project Number: T215-030

Log of Boring

Sheet 1 of 1

BOREHOLE LOCATION: MGE-9		
DATE BEGAN: 11/9/15	DATE FINISHED: 11/9/15	FIELD GEOLOGIST: CHV
GROUND SURFACE ELEVATION:	TOTAL DEPTH OF BOREHOLE:	CHECKED BY:
GWL DATE :	GWL DEPTH:	
DRILLING METHOD: DPT	CONTRACTOR: SOIL ESSENTIALS	

Water Level	Elevation, feet	Depth, feet	Sample No.	Sample Method	Sample Type	Penetrometer (tons/ft2)	REC (in.)	USCS	DESCRIPTION	PID	Sample Location	REMARKS
	0	0							GRAVEL INDUSTRIAL FILL			
									PEAT/FILL MIX CLAY - LT. BROWN	0.0		MGE-9 (3-5') 12:20
▼	-5	5							PEAT CLAY - LT. GRAY	0.0		MGE-9 12:15
									~~EOB 10'~~	0.0		
	-10	10										
	-15	15							EOB 15'			
	-20	20										

Sp = Split Spoon Sample Pp = Push Probe Sample Ha = Hand Auger D = Discrete St = Shelby Tube C = Composite

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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DANE	MGE-9	

Latitude / Longitude (see instructions): 43.080192 N / -89373209 W

Format Code: ☑ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	SE	13	7 N	9 ☑ E ☐ W

Well Street Address: 211 South Livingston Street

Well City, Village or Town	Well ZIP Code
City of Madison	53703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	MGE-9

2. Facility / Owner Information

Facility Name: MGE - Livingston Street Yard

Facility ID (FID or PWS):

License/Permit/Monitoring #: MGE

Original Well Owner: Madison Gas and Electric Company

Present Well Owner: Madison Gas and Electric Company

Mailing Address of Present Owner: 133 South Blair Street

City of Present Owner	State	ZIP Code
Madison	WI	53703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): November 9, 2015

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Direct-Push Technology (e.g., Geoprobe)

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15 feet	NA

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inch	NA

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6 to 7 feet

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	22.5 pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soil Essentials		11/09/2015

Street or Route	Telephone Number
W6306 State Road 39	(608-527-2355)

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
New Glarus	WI	53574	For Soil Essentials	12/30/2015

DNR Use Only

Date Received	Noted By

Comments:

TRUENORTH CONSULTANTS

Project Name: MGE-LIVINGSTON STREET YARD
Project Location: MADISON, WI
Project Number: T215-030

Log of Boring

Sheet 1 of 1

BOREHOLE LOCATION: MGE-10		
DATE BEGAN: 11/9/15	DATE FINISHED: 11/9/15	FIELD GEOLOGIST: CHV
GROUND SURFACE ELEVATION:	TOTAL DEPTH OF BOREHOLE:	CHECKED BY:
GWL DATE :	GWL DEPTH:	
DRILLING METHOD: DPT	CONTRACTOR: SOIL ESSENTIALS	

Water Level Elevation, feet	Depth, feet	Sample No.	Sample Method	Sample Type	Penetrometer (tons/ft2)	REC (in.)	USCS	DESCRIPTION	PID	Sample Location	REMARKS
0	0							GRAVEL			
								SAND/CLAY - NON-NATIVE FILL	0.0		
								PEAT / INDUSTRIAL FILL	0.0		MGE-10 (2-4') 12:40
-5	5							CLAY			
								IRREGULAR - WET @ BOTTOM	6.0		
								EOB @ 6'			
-10	10										
-15	15										
-20	20										

Sp = Split Spoon Sample Pp = Push Probe Sample Ha = Hand Auger D = Discrete St = Shelby Tube C = Composite

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DANE	MGE-10	

Latitude / Longitude (see instructions): 43.080192 N, -89373209 W
Format Code: ☑ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	SE	13	7 N	9 ☑ E ☐ W

Well Street Address: 211 South Livingston Street

Well City, Village or Town	Well ZIP Code
City of Madison	53703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	MGE-10

2. Facility / Owner Information

Facility Name: MGE - Livingston Street Yard
Facility ID (FID or PWS):
License/Permit/Monitoring #: MGE
Original Well Owner: Madison Gas and Electric Company
Present Well Owner: Madison Gas and Electric Company
Mailing Address of Present Owner: 133 South Blair Street

City of Present Owner	State	ZIP Code
Madison	WI	53703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): November 9, 2015
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Direct-Push Technology (e.g., Geoprobe)

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
6 feet	NA

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inch	NA

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6 to 7 feet

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	6	9 pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soil Essentials		11/09/2015

Street or Route	Telephone Number
W6306 State Road 39	(608-527-2355)

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
New Glarus	WI	53574	For Soil Essentials	12/30/2015

DNR Use Only

Date Received	Noted By

Comments:

TRUENORTH CONSULTANTS

Project Name: MGE - LIVINGSTON STREET YARD
Project Location: MADISON, WI
Project Number: T215-030

Log of Boring

Sheet 1 of 1

BOREHOLE LOCATION: MGE-11		
DATE BEGAN: 11/9/15	DATE FINISHED: 11/9/15	FIELD GEOLOGIST: CHV
GROUND SURFACE ELEVATION:	TOTAL DEPTH OF BOREHOLE:	CHECKED BY:
GWL DATE :	GWL DEPTH:	
DRILLING METHOD: DPT	CONTRACTOR: SOIL ESSENTIALS	

Water Level Elevation, feet	Depth, feet	Sample No.	Sample Method	Sample Type	Penetrometer (tons/ft2)	REC (in.)	USCS	DESCRIPTION	PID	Sample Location	REMARKS
0	0							GRAVEL SANDY CLAY INDUSTRIAL FILL - COAL - CINDERS ETC			
								CLAY NOW - NATIVE FILL SANDY BROWN			MGE-11 (3-5' 13:00
-5	5							PEAT - SANDY BROWN	325		
								CLAY - GREY - SANDY BROWN	275		MGE-11 13:10
								↓			
-10	10							EOB @ 10'	397		
-15	15										
-20	20										

Sp = Split Spoon Sample Pp = Push Probe Sample Ha = Hand Auger D = Discrete St = Shelby Tube C = Composite

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DANE	MGE-11	

Latitude / Longitude (see instructions): 43.080192 N, -89373209 W
Format Code: ☑ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	SE	13	7 N	9 ☑ E ☐ W

Well Street Address: 211 South Livingston Street

Well City, Village or Town	Well ZIP Code
City of Madison	53703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	MGE-11

2. Facility / Owner Information

Facility Name: MGE - Livingston Street Yard
Facility ID (FID or PWS):
License/Permit/Monitoring #: MGE
Original Well Owner: Madison Gas and Electric Company
Present Well Owner: Madison Gas and Electric Company
Mailing Address of Present Owner: 133 South Blair Street

City of Present Owner	State	ZIP Code
Madison	WI	53703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): November 9, 2015

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Direct-Push Technology (e.g., Geoprobe)

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inch	NA

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6 to 7 feet

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	10	15 pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soil Essentials		11/09/2015

Street or Route	Telephone Number
W6306 State Road 39	(608-527-2355)

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
New Glarus	WI	53574	For Soil Essentials	12/30/2015

DNR Use Only

Date Received	Noted By

Comments

TRUENORTH CONSULTANTS

Project Name: MGE-LIVINGSTON STREET YARD
Project Location: MADISON, WI
Project Number: T215-030

Log of Boring

Sheet 1 of 1

BOREHOLE LOCATION: MGE-12		
DATE BEGAN: 11/9/15	DATE FINISHED: 11/9/15	FIELD GEOLOGIST: CHV
GROUND SURFACE ELEVATION:	TOTAL DEPTH OF BOREHOLE:	CHECKED BY:
GWL DATE :	GWL DEPTH:	
DRILLING METHOD: DPT	CONTRACTOR: SOIL ESSENTIALS	

Water Level Elevation, feet	Depth, feet	Sample No.	Sample Method	Sample Type	Penetrometer (tons/ft2)	REC (in.)	USCS	DESCRIPTION	PID	Sample Location	REMARKS
0	0							GRAVEL			
								INDUSTRIAL FILL/COAL/CINDERS	0.0		
									0.0		MGE-12 (3-5') 13:45
-5	5							COARSE GRAVEL - INDUSTRIAL FILL			
								PEAT	0.0		
								CLAY - GRAY			
-10	10							EOB @ 10'			
-15	15										
-20	20										

Sp = Split Spoon Sample Pp = Push Probe Sample Ha = Hand Auger D = Discrete St = Shelby Tube C = Composite

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

Well / Drillhole / Borehole Filling & Sealing Report

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DANE	MGE-12	

Latitude / Longitude (see instructions)	Format Code	Method Code
43.080192 N	☑ DD	☐ GPS008
-89373209 W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	SE	13	7 N	9 ☑ E ☐ W

Well Street Address: 211 South Livingston Street

Well City, Village or Town	Well ZIP Code
City of Madison	53703

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	MGE-12

2. Facility / Owner Information

Facility Name: MGE - Livingston Street Yard

Facility ID (FID or PWS):

License/Permit/Monitoring #: MGE

Original Well Owner: Madison Gas and Electric Company

Present Well Owner: Madison Gas and Electric Company

Mailing Address of Present Owner: 133 South Blair Street

City of Present Owner	State	ZIP Code
Madison	WI	53703

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): November 9, 2015

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Direct-Push Technology (e.g., Geoprobe)

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2-inch	NA

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6 to 7 feet

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

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

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

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

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	10	15 pounds	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Soil Essentials		11/09/2015

Street or Route	Telephone Number
W6306 State Road 39	(608-527-2355)

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
New Glarus	WI	53574	For Soil Essentials	12/30/2015

DNR Use Only

Date Received	Noted By

Comments:

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 25, 2015

Chris Valcheff
True North Consultants, Inc.
525 Junction Road, Suite 1900
Madison, WI 53717

RE: Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Dear Chris Valcheff:
Enclosed are the analytical results for sample(s) received by the laboratory on November 11, 2015. 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,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40124487001	**MGE-1 (2-4')**	Solid	11/09/15 08:30	11/11/15 08:35
40124487002	**MGE-2 (2-4')**	Solid	11/09/15 09:00	11/11/15 08:35
40124487003	**MGE-3 (3-5')**	Solid	11/09/15 09:15	11/11/15 08:35
40124487004	**MGE-4 (2-4')**	Solid	11/09/15 09:45	11/11/15 08:35
40124487005	**MGE-5 (2-4')**	Solid	11/09/15 10:15	11/11/15 08:35
40124487006	**MGE-6 (3-5')**	Solid	11/09/15 10:30	11/11/15 08:35
40124487007	**MGE-7 (2-4')**	Solid	11/09/15 11:00	11/11/15 08:35
40124487008	**MGE-8 (2-4')**	Solid	11/09/15 11:15	11/11/15 08:35
40124487009	**MGE-9 (3-5')**	Solid	11/09/15 12:20	11/11/15 08:35
40124487010	**MGE-10 (2-4')**	Solid	11/09/15 12:40	11/11/15 08:35
40124487011	**MGE-11 (3-5')**	Solid	11/09/15 13:00	11/11/15 08:35
40124487012	**MGE-12 (3-5')**	Solid	11/09/15 13:45	11/11/15 08:35

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40124487001	**MGE-1 (2-4')**	EPA 8082	BLM	10
		WI MOD DRO	CAC	1
		WI MOD GRO	PMS	1
		EPA 6010	DLB	7
		EPA 6010	DLB	7
		EPA 7470	AJT	1
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	63
		EPA 8260	AJP	13
		ASTM D2974-87	SKW	1
40124487002	**MGE-2 (2-4')**	EPA 6010	DLB	7
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	63
		ASTM D2974-87	SKW	1
40124487003	**MGE-3 (3-5')**	EPA 8082	BLM	10
		WI MOD DRO	CAC	1
		WI MOD GRO	PMS	1
		EPA 6010	DLB	7
		EPA 6010	DLB	7
		EPA 7470	AJT	1
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	63
		EPA 8260	AJP	13
		ASTM D2974-87	SKW	1
40124487004	**MGE-4 (2-4')**	EPA 6010	DLB	7
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	63
		ASTM D2974-87	SKW	1
40124487005	**MGE-5 (2-4')**	EPA 8082	BLM	10
		WI MOD DRO	CAC	1
		WI MOD GRO	PMS	1
		EPA 6010	DLB	7
		EPA 6010	DLB	7

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SAMPLE ANALYTE COUNT

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470	AJT	1
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	63
		EPA 8260	AJP	13
		ASTM D2974-87	SKW	1
40124487006	**MGE-6 (3-5')**	EPA 8082	BLM	10
		WI MOD DRO	CAC	1
		WI MOD GRO	PMS	1
		EPA 6010	DLB	7
		EPA 6010	DLB	7
		EPA 7470	AJT	1
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	63
		EPA 8260	AJP	13
		ASTM D2974-87	SKW	1
40124487007	**MGE-7 (2-4')**	EPA 6010	DLB	7
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	63
		ASTM D2974-87	SKW	1
40124487008	**MGE-8 (2-4')**	EPA 6010	DLB	7
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	63
		ASTM D2974-87	SKW	1
40124487009	**MGE-9 (3-5')**	EPA 6010	DLB	7
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	63
		ASTM D2974-87	SKW	1
40124487010	**MGE-10 (2-4')**	EPA 8082	BLM	10
		WI MOD DRO	CAC	1
		WI MOD GRO	PMS	1
		EPA 6010	DLB	7
		EPA 6010	DLB	7

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SAMPLE ANALYTE COUNT

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470	AJT	1
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	63
		EPA 8260	AJP	13
		ASTM D2974-87	SKW	1
40124487011	**MGE-11 (3-5')**	EPA 6010	DLB	7
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	63
		ASTM D2974-87	SKW	1
40124487012	**MGE-12 (3-5')**	EPA 8082	BDS	10
		WI MOD DRO	CAC	1
		WI MOD GRO	PMS	1
		EPA 6010	DLB	7
		EPA 6010	DLB	7
		EPA 7470	AJT	1
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	63
		EPA 8260	AJP	13
		ASTM D2974-87	SKW	1

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SUMMARY OF DETECTION

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40124487001	**MGE-1 (2-4')**					
WI MOD DRO	Diesel Range Organics	717	mg/kg	31.9	11/18/15 09:02	T4
EPA 6010	Arsenic	9.3	mg/kg	5.5	11/19/15 20:02	
EPA 6010	Barium	142	mg/kg	1.4	11/19/15 20:02	
EPA 6010	Cadmium	0.26J	mg/kg	1.4	11/19/15 20:02	B
EPA 6010	Chromium	12.4	mg/kg	1.4	11/19/15 20:02	
EPA 6010	Lead	8.7	mg/kg	2.7	11/19/15 20:02	
EPA 6010	Selenium	5.1J	mg/kg	5.5	11/19/15 20:02	
EPA 6010	Silver	1.4J	mg/kg	2.7	11/19/15 20:02	B
EPA 6010	Barium	<1.2	mg/L	2.5	11/20/15 12:39	
EPA 6010	Lead	0.036J	mg/L	0.038	11/20/15 12:39	
EPA 7471	Mercury	0.10	mg/kg	0.025	11/18/15 11:57	
EPA 8270 by SIM	Acenaphthylene	33.0J	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Anthracene	90.7	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Benzo(a)anthracene	157	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Benzo(a)pyrene	168	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Benzo(b)fluoranthene	167	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Benzo(g,h,i)perylene	242	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Benzo(k)fluoranthene	180	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Chrysene	178	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Dibenz(a,h)anthracene	61.2	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Fluoranthene	258	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	159	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	1-Methylnaphthalene	59.7	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	2-Methylnaphthalene	71.6	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Naphthalene	80.9	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Phenanthrene	260	ug/kg	45.9	11/19/15 15:22	
EPA 8270 by SIM	Pyrene	240	ug/kg	45.9	11/19/15 15:22	
ASTM D2974-87	Percent Moisture	63.7	%	0.10	11/11/15 14:41	
40124487002	**MGE-2 (2-4')**					
EPA 6010	Arsenic	5.3	mg/kg	2.7	11/19/15 20:14	
EPA 6010	Barium	54.0	mg/kg	0.68	11/19/15 20:14	
EPA 6010	Cadmium	0.61J	mg/kg	0.68	11/19/15 20:14	B
EPA 6010	Chromium	10.7	mg/kg	0.68	11/19/15 20:14	
EPA 6010	Lead	50.7	mg/kg	1.4	11/19/15 20:14	
EPA 6010	Selenium	1.5J	mg/kg	2.7	11/19/15 20:14	
EPA 6010	Silver	0.96J	mg/kg	1.4	11/19/15 20:14	B
EPA 7471	Mercury	0.044	mg/kg	0.014	11/18/15 11:59	
EPA 8270 by SIM	Benzo(a)anthracene	30.6	ug/kg	23.9	11/19/15 14:10	
EPA 8270 by SIM	Benzo(a)pyrene	35.6	ug/kg	23.9	11/19/15 14:10	
EPA 8270 by SIM	Benzo(b)fluoranthene	43.4	ug/kg	23.9	11/19/15 14:10	
EPA 8270 by SIM	Benzo(g,h,i)perylene	30.5	ug/kg	23.9	11/19/15 14:10	
EPA 8270 by SIM	Benzo(k)fluoranthene	46.9	ug/kg	23.9	11/19/15 14:10	
EPA 8270 by SIM	Chrysene	50.3	ug/kg	23.9	11/19/15 14:10	
EPA 8270 by SIM	Dibenz(a,h)anthracene	9.0J	ug/kg	23.9	11/19/15 14:10	
EPA 8270 by SIM	Fluoranthene	64.3	ug/kg	23.9	11/19/15 14:10	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	26.2	ug/kg	23.9	11/19/15 14:10	
EPA 8270 by SIM	2-Methylnaphthalene	13.8J	ug/kg	23.9	11/19/15 14:10	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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SUMMARY OF DETECTION

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40124487002	**MGE-2 (2-4')**					
EPA 8270 by SIM	Phenanthrene	37.2	ug/kg	23.9	11/19/15 14:10	
EPA 8270 by SIM	Pyrene	56.5	ug/kg	23.9	11/19/15 14:10	
ASTM D2974-87	Percent Moisture	30.2	%	0.10	11/11/15 14:41	
40124487003	**MGE-3 (3-5')**					
WI MOD DRO	Diesel Range Organics	19.5	mg/kg	1.9	11/17/15 16:10	T4
EPA 6010	Arsenic	5.7	mg/kg	2.0	11/19/15 20:17	
EPA 6010	Barium	68.1	mg/kg	0.51	11/19/15 20:17	
EPA 6010	Cadmium	0.28J	mg/kg	0.51	11/19/15 20:17	B
EPA 6010	Chromium	8.9	mg/kg	0.51	11/19/15 20:17	
EPA 6010	Lead	864	mg/kg	1.0	11/19/15 20:17	
EPA 6010	Selenium	1.3J	mg/kg	2.0	11/19/15 20:17	
EPA 6010	Silver	0.74J	mg/kg	1.0	11/19/15 20:17	B
EPA 7471	Mercury	0.030	mg/kg	0.010	11/18/15 12:01	
EPA 8270 by SIM	Anthracene	10.4J	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	Benzo(a)anthracene	18.1J	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	Benzo(a)pyrene	16.3J	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	Benzo(b)fluoranthene	18.6	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	Benzo(g,h,i)perylene	16.0J	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	Benzo(k)fluoranthene	18.2J	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	Chrysene	24.4	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	Fluoranthene	51.5	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	12.5J	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	1-Methylnaphthalene	9.9J	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	2-Methylnaphthalene	13.1J	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	Naphthalene	24.4	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	Phenanthrene	41.9	ug/kg	18.6	11/19/15 13:18	
EPA 8270 by SIM	Pyrene	34.9	ug/kg	18.6	11/19/15 13:18	
ASTM D2974-87	Percent Moisture	10.3	%	0.10	11/11/15 15:18	
40124487004	**MGE-4 (2-4')**					
EPA 6010	Arsenic	9.6J	mg/kg	10.7	11/20/15 14:08	D3
EPA 6010	Barium	88.2	mg/kg	0.53	11/19/15 20:19	
EPA 6010	Cadmium	2.2J	mg/kg	2.7	11/20/15 14:08	D3
EPA 6010	Chromium	14.6	mg/kg	0.53	11/19/15 20:19	
EPA 6010	Lead	43.9	mg/kg	5.3	11/20/15 14:08	
EPA 6010	Selenium	2.6	mg/kg	2.1	11/19/15 20:19	
EPA 6010	Silver	0.98J	mg/kg	1.1	11/19/15 20:19	B
EPA 7471	Mercury	0.0046J	mg/kg	0.011	11/18/15 12:03	
EPA 8270 by SIM	Benzo(a)anthracene	11.9J	ug/kg	19.4	11/19/15 15:57	
EPA 8270 by SIM	Benzo(a)pyrene	11.0J	ug/kg	19.4	11/19/15 15:57	
EPA 8270 by SIM	Benzo(b)fluoranthene	12.2J	ug/kg	19.4	11/19/15 15:57	
EPA 8270 by SIM	Benzo(g,h,i)perylene	7.7J	ug/kg	19.4	11/19/15 15:57	
EPA 8270 by SIM	Benzo(k)fluoranthene	<10.7	ug/kg	19.4	11/19/15 15:57	
EPA 8270 by SIM	Chrysene	19.5	ug/kg	19.4	11/19/15 15:57	
EPA 8270 by SIM	Fluoranthene	29.2	ug/kg	19.4	11/19/15 15:57	
EPA 8270 by SIM	1-Methylnaphthalene	36.9	ug/kg	19.4	11/19/15 15:57	
EPA 8270 by SIM	2-Methylnaphthalene	61.0	ug/kg	19.4	11/19/15 15:57	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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SUMMARY OF DETECTION

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40124487004	**MGE-4 (2-4')**					
EPA 8270 by SIM	Naphthalene	31.8	ug/kg	19.4	11/19/15 15:57	
EPA 8270 by SIM	Phenanthrene	59.1	ug/kg	19.4	11/19/15 15:57	
EPA 8270 by SIM	Pyrene	23.0	ug/kg	19.4	11/19/15 15:57	
ASTM D2974-87	Percent Moisture	14.2	%	0.10	11/11/15 15:18	
40124487005	**MGE-5 (2-4')**					
WI MOD DRO	Diesel Range Organics	420	mg/kg	22.9	11/18/15 08:53	
WI MOD GRO	Gasoline Range Organics	8.7J	mg/kg	14.5	11/12/15 20:08	
EPA 6010	Arsenic	11.4	mg/kg	4.0	11/19/15 20:22	
EPA 6010	Barium	138	mg/kg	1.0	11/19/15 20:22	
EPA 6010	Cadmium	0.36J	mg/kg	1.0	11/19/15 20:22	B
EPA 6010	Chromium	19.6	mg/kg	1.0	11/19/15 20:22	
EPA 6010	Lead	16.5	mg/kg	2.0	11/19/15 20:22	
EPA 6010	Selenium	2.7J	mg/kg	4.0	11/19/15 20:22	
EPA 6010	Silver	1.5J	mg/kg	2.0	11/19/15 20:22	B
EPA 6010	Lead	0.034J	mg/L	0.038	11/20/15 12:49	
EPA 7471	Mercury	0.036	mg/kg	0.020	11/18/15 12:06	
EPA 8270 by SIM	Acenaphthene	26.3J	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Acenaphthylene	31.6J	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Anthracene	58.2	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Benzo(a)anthracene	102	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Benzo(a)pyrene	102	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Benzo(b)fluoranthene	111	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Benzo(g,h,i)perylene	93.4	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Benzo(k)fluoranthene	105	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Chrysene	145	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Dibenz(a,h)anthracene	27.3J	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Fluoranthene	231	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Fluorene	28.8J	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	72.1	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	1-Methylnaphthalene	178	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	2-Methylnaphthalene	275	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Naphthalene	193	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Phenanthrene	293	ug/kg	35.2	11/19/15 13:01	
EPA 8270 by SIM	Pyrene	200	ug/kg	35.2	11/19/15 13:01	
ASTM D2974-87	Percent Moisture	52.6	%	0.10	11/11/15 15:18	
40124487006	**MGE-6 (3-5')**					
WI MOD DRO	Diesel Range Organics	125000	mg/kg	5920	11/18/15 09:11	
WI MOD GRO	Gasoline Range Organics	1440	mg/kg	168	11/12/15 22:16	G+
EPA 6010	Arsenic	7.1	mg/kg	2.5	11/19/15 20:24	
EPA 6010	Barium	70.8	mg/kg	0.61	11/19/15 20:24	
EPA 6010	Cadmium	2.3	mg/kg	0.61	11/19/15 20:24	
EPA 6010	Chromium	7.7	mg/kg	0.61	11/19/15 20:24	
EPA 6010	Lead	37.2	mg/kg	1.2	11/19/15 20:24	
EPA 6010	Selenium	1.6J	mg/kg	2.5	11/19/15 20:24	
EPA 6010	Silver	0.75J	mg/kg	1.2	11/19/15 20:24	B
EPA 6010	Lead	0.018J	mg/L	0.038	11/20/15 13:46	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40124487006	**MGE-6 (3-5')**					
EPA 7471	Mercury	0.038	mg/kg	0.011	11/18/15 12:08	
EPA 8270 by SIM	Acenaphthene	101	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Acenaphthylene	40.2J	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Anthracene	334	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Benzo(a)anthracene	435	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Benzo(a)pyrene	315	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Benzo(b)fluoranthene	276	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Benzo(g,h,i)perylene	172	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Benzo(k)fluoranthene	238	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Chrysene	632	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Dibenz(a,h)anthracene	67.9J	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Fluoranthene	854	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Fluorene	183	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	123	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	1-Methylnaphthalene	774	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	2-Methylnaphthalene	991	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Naphthalene	533	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Phenanthrene	1210	ug/kg	83.5	11/19/15 16:31	
EPA 8270 by SIM	Pyrene	858	ug/kg	83.5	11/19/15 16:31	
EPA 8260	n-Butylbenzene	7640	ug/kg	752	11/13/15 13:04	
EPA 8260	sec-Butylbenzene	2920	ug/kg	752	11/13/15 13:04	
EPA 8260	tert-Butylbenzene	330J	ug/kg	752	11/13/15 13:04	
EPA 8260	Ethylbenzene	552J	ug/kg	752	11/13/15 13:04	
EPA 8260	Isopropylbenzene (Cumene)	2560	ug/kg	752	11/13/15 13:04	
EPA 8260	Naphthalene	9920	ug/kg	3130	11/13/15 13:04	
EPA 8260	n-Propylbenzene	4730	ug/kg	752	11/13/15 13:04	
EPA 8260	1,2,4-Trimethylbenzene	1680	ug/kg	752	11/13/15 13:04	
EPA 8260	1,3,5-Trimethylbenzene	319J	ug/kg	752	11/13/15 13:04	
EPA 8260	Xylene (Total)	2330	ug/kg	2260	11/13/15 13:04	
ASTM D2974-87	Percent Moisture	20.2	%	0.10	11/11/15 15:18	
40124487007	**MGE-7 (2-4')**					
EPA 6010	Arsenic	18.5	mg/kg	4.5	11/20/15 14:11	
EPA 6010	Barium	92.8	mg/kg	0.56	11/19/15 20:27	
EPA 6010	Cadmium	0.84J	mg/kg	1.1	11/20/15 14:11	B,D3
EPA 6010	Chromium	10.2	mg/kg	0.56	11/19/15 20:27	
EPA 6010	Lead	31.2	mg/kg	2.3	11/20/15 14:11	
EPA 6010	Selenium	2.2J	mg/kg	2.3	11/19/15 20:27	
EPA 6010	Silver	0.50J	mg/kg	1.1	11/19/15 20:27	B
EPA 7471	Mercury	0.0093J	mg/kg	0.011	11/18/15 12:10	
EPA 8270 by SIM	Acenaphthene	22.3	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Acenaphthylene	120	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Anthracene	111	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Benzo(a)anthracene	118	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Benzo(a)pyrene	175	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Benzo(b)fluoranthene	138	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Benzo(g,h,i)perylene	153	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Benzo(k)fluoranthene	122	ug/kg	19.6	11/19/15 12:43	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40124487007	**MGE-7 (2-4')**					
EPA 8270 by SIM	Chrysene	207	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Dibenz(a,h)anthracene	61.7	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Fluoranthene	111	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Fluorene	57.1	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	125	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	1-Methylnaphthalene	223	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	2-Methylnaphthalene	349	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Naphthalene	244	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Phenanthrene	352	ug/kg	19.6	11/19/15 12:43	
EPA 8270 by SIM	Pyrene	133	ug/kg	19.6	11/19/15 12:43	
ASTM D2974-87	Percent Moisture	15.0	%	0.10	11/11/15 15:18	
40124487008	**MGE-8 (2-4')**					
EPA 6010	Arsenic	16.5	mg/kg	7.8	11/19/15 20:29	
EPA 6010	Barium	173	mg/kg	2.0	11/19/15 20:29	
EPA 6010	Chromium	5.8	mg/kg	2.0	11/19/15 20:29	
EPA 6010	Lead	18.1	mg/kg	3.9	11/19/15 20:29	
EPA 6010	Silver	1.5J	mg/kg	3.9	11/19/15 20:29	B
EPA 7471	Mercury	0.059	mg/kg	0.036	11/18/15 12:17	
EPA 8260	Naphthalene	187J	ug/kg	1000	11/12/15 13:04	
ASTM D2974-87	Percent Moisture	75.0	%	0.10	11/11/15 15:18	
40124487009	**MGE-9 (3-5')**					
EPA 6010	Arsenic	20.8J	mg/kg	25.3	11/19/15 21:15	
EPA 6010	Barium	59.1	mg/kg	1.3	11/20/15 14:20	M0
EPA 6010	Cadmium	2.9J	mg/kg	6.3	11/19/15 21:15	
EPA 6010	Chromium	8.9	mg/kg	1.3	11/20/15 14:20	
EPA 6010	Lead	54.3	mg/kg	12.7	11/19/15 21:15	
EPA 6010	Silver	1.5J	mg/kg	2.5	11/20/15 14:20	D3
EPA 7471	Mercury	0.028	mg/kg	0.011	11/18/15 12:20	
EPA 8270 by SIM	Acenaphthene	108J	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Acenaphthylene	99.3J	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Anthracene	390	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Benzo(a)anthracene	542	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Benzo(a)pyrene	574	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Benzo(b)fluoranthene	373	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Benzo(g,h,i)perylene	305	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Benzo(k)fluoranthene	554	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Chrysene	776	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Dibenz(a,h)anthracene	89.6J	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Fluoranthene	1830	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Fluorene	190	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	254	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	1-Methylnaphthalene	397	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	2-Methylnaphthalene	427	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Naphthalene	500	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Phenanthrene	2930	ug/kg	169	11/19/15 16:48	
EPA 8270 by SIM	Pyrene	1990	ug/kg	169	11/19/15 16:48	

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SUMMARY OF DETECTION

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40124487009	**MGE-9 (3-5')**					
EPA 8260	1,2,4-Trimethylbenzene	52.7J	ug/kg	76.2	11/12/15 13:27	
EPA 8260	Naphthalene	73.5J	ug/kg	317	11/12/15 13:27	
ASTM D2974-87	Percent Moisture	21.2	%	0.10	11/11/15 15:18	
40124487010	**MGE-10 (2-4')**					
WI MOD DRO	Diesel Range Organics	5.8	mg/kg	1.8	11/18/15 08:38	
EPA 6010	Arsenic	5.3	mg/kg	2.1	11/20/15 14:27	B
EPA 6010	Barium	36.8	mg/kg	0.53	11/20/15 14:27	
EPA 6010	Cadmium	0.12J	mg/kg	0.53	11/20/15 14:27	B
EPA 6010	Chromium	7.0	mg/kg	0.53	11/20/15 14:27	
EPA 6010	Lead	10.2	mg/kg	1.1	11/20/15 14:27	
EPA 6010	Selenium	0.84J	mg/kg	2.1	11/20/15 14:27	
EPA 6010	Silver	0.46J	mg/kg	1.1	11/20/15 14:27	
EPA 6010	Lead	0.022J	mg/L	0.038	11/20/15 12:54	
EPA 7471	Mercury	0.014	mg/kg	0.0096	11/18/15 12:22	
EPA 8270 by SIM	Anthracene	20.2	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	Benzo(a)anthracene	29.5	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	Benzo(a)pyrene	26.3	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	Benzo(b)fluoranthene	37.4	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	Benzo(g,h,i)perylene	21.5	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	Benzo(k)fluoranthene	26.0	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	Chrysene	40.5	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	Fluoranthene	78.5	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	17.5J	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	1-Methylnaphthalene	14.5J	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	2-Methylnaphthalene	19.8	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	Naphthalene	26.9	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	Phenanthrene	81.1	ug/kg	18.1	11/19/15 12:09	
EPA 8270 by SIM	Pyrene	61.2	ug/kg	18.1	11/19/15 12:09	
ASTM D2974-87	Percent Moisture	7.9	%	0.10	11/11/15 15:18	
40124487011	**MGE-11 (3-5')**					
EPA 6010	Arsenic	7.6	mg/kg	2.2	11/19/15 21:25	B
EPA 6010	Barium	31.6	mg/kg	0.54	11/19/15 21:25	
EPA 6010	Chromium	8.8	mg/kg	0.54	11/19/15 21:25	
EPA 6010	Lead	5.2	mg/kg	1.1	11/19/15 21:25	
EPA 6010	Silver	0.67J	mg/kg	1.1	11/19/15 21:25	
EPA 7471	Mercury	0.0084J	mg/kg	0.011	11/18/15 12:24	
EPA 8270 by SIM	Acenaphthylene	61.6J	ug/kg	96.6	11/24/15 12:34	
EPA 8270 by SIM	1-Methylnaphthalene	229	ug/kg	96.6	11/24/15 12:34	
EPA 8270 by SIM	2-Methylnaphthalene	207	ug/kg	96.6	11/24/15 12:34	
EPA 8270 by SIM	Naphthalene	95.3J	ug/kg	96.6	11/24/15 12:34	D3
ASTM D2974-87	Percent Moisture	13.8	%	0.10	11/11/15 15:19	
40124487012	**MGE-12 (3-5')**					
WI MOD DRO	Diesel Range Organics	11.5	mg/kg	2.8	11/18/15 08:44	
WI MOD GRO	Gasoline Range Organics	7.0	mg/kg	6.0	11/13/15 01:15	
EPA 6010	Arsenic	16.9J	mg/kg	20.6	11/19/15 21:28	
EPA 6010	Barium	65.3	mg/kg	0.51	11/20/15 14:30	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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SUMMARY OF DETECTION

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40124487012	**MGE-12 (3-5')**					
EPA 6010	Chromium	13.1	mg/kg	0.51	11/20/15 14:30	
EPA 6010	Lead	61.8	mg/kg	10.3	11/19/15 21:28	
EPA 6010	Selenium	2.4	mg/kg	2.1	11/20/15 14:30	
EPA 6010	Silver	0.89J	mg/kg	1.0	11/20/15 14:30	
EPA 6010	Lead	0.026J	mg/L	0.038	11/20/15 13:01	
EPA 7471	Mercury	0.035	mg/kg	0.011	11/18/15 12:27	
EPA 8270 by SIM	Benzo(a)anthracene	14.5J	ug/kg	20.1	11/19/15 12:26	
EPA 8270 by SIM	Benzo(a)pyrene	9.1J	ug/kg	20.1	11/19/15 12:26	
EPA 8270 by SIM	Chrysene	15.7J	ug/kg	20.1	11/19/15 12:26	
EPA 8270 by SIM	Fluoranthene	27.2	ug/kg	20.1	11/19/15 12:26	
EPA 8270 by SIM	1-Methylnaphthalene	112	ug/kg	20.1	11/19/15 12:26	
EPA 8270 by SIM	2-Methylnaphthalene	147	ug/kg	20.1	11/19/15 12:26	
EPA 8270 by SIM	Naphthalene	68.3	ug/kg	20.1	11/19/15 12:26	
EPA 8270 by SIM	Phenanthrene	92.8	ug/kg	20.1	11/19/15 12:26	
EPA 8270 by SIM	Pyrene	23.2	ug/kg	20.1	11/19/15 12:26	
EPA 8260	Benzene	38.2J	ug/kg	72.3	11/12/15 14:35	
EPA 8260	sec-Butylbenzene	38.6J	ug/kg	72.3	11/12/15 14:35	
EPA 8260	Ethylbenzene	51.5J	ug/kg	72.3	11/12/15 14:35	
EPA 8260	Naphthalene	191J	ug/kg	301	11/12/15 14:35	
EPA 8260	Toluene	160	ug/kg	72.3	11/12/15 14:35	
EPA 8260	1,2,4-Trimethylbenzene	73.8	ug/kg	72.3	11/12/15 14:35	
EPA 8260	1,3,5-Trimethylbenzene	60.3J	ug/kg	72.3	11/12/15 14:35	
EPA 8260	Xylene (Total)	322	ug/kg	217	11/12/15 14:35	
ASTM D2974-87	Percent Moisture	17.0	%	0.10	11/11/15 15:19	

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ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-1 (2-4') **Lab ID: 40124487001** Collected: 11/09/15 08:30 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<68.9**	ug/kg	138	68.9	1	11/12/15 11:55	11/13/15 12:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<68.9**	ug/kg	138	68.9	1	11/12/15 11:55	11/13/15 12:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<68.9**	ug/kg	138	68.9	1	11/12/15 11:55	11/13/15 12:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<68.9**	ug/kg	138	68.9	1	11/12/15 11:55	11/13/15 12:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**<68.9**	ug/kg	138	68.9	1	11/12/15 11:55	11/13/15 12:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**<68.9**	ug/kg	138	68.9	1	11/12/15 11:55	11/13/15 12:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**<68.9**	ug/kg	138	68.9	1	11/12/15 11:55	11/13/15 12:53	11096-82-5	
PCB, Total	**<68.9**	ug/kg	138	68.9	1	11/12/15 11:55	11/13/15 12:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	46-130		1	11/12/15 11:55	11/13/15 12:53	877-09-8	
Decachlorobiphenyl (S)	81	%	39-130		1	11/12/15 11:55	11/13/15 12:53	2051-24-3	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**717**	mg/kg	31.9	12.9	5	11/15/15 07:56	11/18/15 09:02		T4
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<6.9**	mg/kg	13.8	6.9	1	11/12/15 06:40	11/12/15 23:59		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**9.3**	mg/kg	5.5	1.7	1	11/18/15 13:23	11/19/15 20:02	7440-38-2	
Barium	**142**	mg/kg	1.4	0.33	1	11/18/15 13:23	11/19/15 20:02	7440-39-3	
Cadmium	**0.26J**	mg/kg	1.4	0.18	1	11/18/15 13:23	11/19/15 20:02	7440-43-9	B
Chromium	**12.4**	mg/kg	1.4	0.53	1	11/18/15 13:23	11/19/15 20:02	7440-47-3	
Lead	**8.7**	mg/kg	2.7	1.2	1	11/18/15 13:23	11/19/15 20:02	7439-92-1	
Selenium	**5.1J**	mg/kg	5.5	2.1	1	11/18/15 13:23	11/19/15 20:02	7782-49-2	
Silver	**1.4J**	mg/kg	2.7	0.76	1	11/18/15 13:23	11/19/15 20:02	7440-22-4	B
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 11/12/15 11:01								
Arsenic	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 12:39	7440-38-2	
Barium	**<1.2**	mg/L	2.5	1.2	1	11/19/15 16:57	11/20/15 12:39	7440-39-3	
Cadmium	**<0.012**	mg/L	0.025	0.012	1	11/19/15 16:57	11/20/15 12:39	7440-43-9	
Chromium	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 12:39	7440-47-3	
Lead	**0.036J**	mg/L	0.038	0.015	1	11/19/15 16:57	11/20/15 12:39	7439-92-1	
Selenium	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 12:39	7782-49-2	
Silver	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 12:39	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Leachate Method/Date: EPA 1311; 11/12/15 11:03								
Mercury	**<0.00010**	mg/L	0.00020	0.00010	1	11/18/15 13:05	11/19/15 14:51	7439-97-6	M0
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.10**	mg/kg	0.025	0.0076	1	11/17/15 09:06	11/18/15 11:57	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-1 (2-4') **Lab ID: 40124487001** Collected: 11/09/15 08:30 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<23.0**	ug/kg	45.9	23.0	1	11/18/15 09:22	11/19/15 15:22	83-32-9	
Acenaphthylene	**33.0J**	ug/kg	45.9	20.6	1	11/18/15 09:22	11/19/15 15:22	208-96-8	
Anthracene	**90.7**	ug/kg	45.9	23.8	1	11/18/15 09:22	11/19/15 15:22	120-12-7	
Benzo(a)anthracene	**157**	ug/kg	45.9	15.9	1	11/18/15 09:22	11/19/15 15:22	56-55-3	
Benzo(a)pyrene	**168**	ug/kg	45.9	16.4	1	11/18/15 09:22	11/19/15 15:22	50-32-8	
Benzo(b)fluoranthene	**167**	ug/kg	45.9	23.0	1	11/18/15 09:22	11/19/15 15:22	205-99-2	
Benzo(g,h,i)perylene	**242**	ug/kg	45.9	17.5	1	11/18/15 09:22	11/19/15 15:22	191-24-2	
Benzo(k)fluoranthene	**180**	ug/kg	45.9	25.4	1	11/18/15 09:22	11/19/15 15:22	207-08-9	
Chrysene	**178**	ug/kg	45.9	21.2	1	11/18/15 09:22	11/19/15 15:22	218-01-9	
Dibenz(a,h)anthracene	**61.2**	ug/kg	45.9	16.8	1	11/18/15 09:22	11/19/15 15:22	53-70-3	
Fluoranthene	**258**	ug/kg	45.9	23.0	1	11/18/15 09:22	11/19/15 15:22	206-44-0	
Fluorene	**<23.0**	ug/kg	45.9	23.0	1	11/18/15 09:22	11/19/15 15:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**159**	ug/kg	45.9	17.5	1	11/18/15 09:22	11/19/15 15:22	193-39-5	
1-Methylnaphthalene	**59.7**	ug/kg	45.9	23.0	1	11/18/15 09:22	11/19/15 15:22	90-12-0	
2-Methylnaphthalene	**71.6**	ug/kg	45.9	23.0	1	11/18/15 09:22	11/19/15 15:22	91-57-6	
Naphthalene	**80.9**	ug/kg	45.9	23.0	1	11/18/15 09:22	11/19/15 15:22	91-20-3	
Phenanthrene	**260**	ug/kg	45.9	23.0	1	11/18/15 09:22	11/19/15 15:22	85-01-8	
Pyrene	**240**	ug/kg	45.9	23.0	1	11/18/15 09:22	11/19/15 15:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	39-130		1	11/18/15 09:22	11/19/15 15:22	321-60-8	
Terphenyl-d14 (S)	52	%	37-130		1	11/18/15 09:22	11/19/15 15:22	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	11/12/15 07:00	11/12/15 20:57	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	11/12/15 07:00	11/12/15 20:57	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	11/12/15 07:00	11/12/15 20:57	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	11/12/15 07:00	11/12/15 20:57	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	541-73-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-1 (2-4') **Lab ID: 40124487001** Collected: 11/09/15 08:30 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	11/12/15 07:00	11/12/15 20:57	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	11/12/15 07:00	11/12/15 20:57	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 20:57	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	11/12/15 07:00	11/12/15 20:57	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	111	%	49-157		1	11/12/15 07:00	11/12/15 20:57	1868-53-7	
Toluene-d8 (S)	108	%	61-148		1	11/12/15 07:00	11/12/15 20:57	2037-26-5	
4-Bromofluorobenzene (S)	100	%	53-134		1	11/12/15 07:00	11/12/15 20:57	460-00-4	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 11/17/15 12:03								
Benzene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 19:03	71-43-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-1 (2-4') **Lab ID: 40124487001** Collected: 11/09/15 08:30 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 11/17/15 12:03								
2-Butanone (MEK)	**<29.8**	ug/L	200	29.8	10		11/18/15 19:03	78-93-3	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		11/18/15 19:03	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 19:03	108-90-7	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		11/18/15 19:03	67-66-3	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		11/18/15 19:03	107-06-2	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		11/18/15 19:03	75-35-4	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 19:03	127-18-4	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		11/18/15 19:03	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		11/18/15 19:03	75-01-4	
Surrogates									
Toluene-d8 (S)	109	%	70-130		10		11/18/15 19:03	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		10		11/18/15 19:03	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		10		11/18/15 19:03	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**63.7**	%	0.10	0.10	1		11/11/15 14:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-2 (2-4') **Lab ID: 40124487002** Collected: 11/09/15 09:00 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**5.3**	mg/kg	2.7	0.87	1	11/18/15 13:23	11/19/15 20:14	7440-38-2	
Barium	**54.0**	mg/kg	0.68	0.16	1	11/18/15 13:23	11/19/15 20:14	7440-39-3	
Cadmium	**0.61J**	mg/kg	0.68	0.090	1	11/18/15 13:23	11/19/15 20:14	7440-43-9	B
Chromium	**10.7**	mg/kg	0.68	0.26	1	11/18/15 13:23	11/19/15 20:14	7440-47-3	
Lead	**50.7**	mg/kg	1.4	0.59	1	11/18/15 13:23	11/19/15 20:14	7439-92-1	
Selenium	**1.5J**	mg/kg	2.7	1.1	1	11/18/15 13:23	11/19/15 20:14	7782-49-2	
Silver	**0.96J**	mg/kg	1.4	0.38	1	11/18/15 13:23	11/19/15 20:14	7440-22-4	B
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.044**	mg/kg	0.014	0.0042	1	11/17/15 09:06	11/18/15 11:59	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<11.9**	ug/kg	23.9	11.9	1	11/18/15 09:22	11/19/15 14:10	83-32-9	
Acenaphthylene	**<10.7**	ug/kg	23.9	10.7	1	11/18/15 09:22	11/19/15 14:10	208-96-8	
Anthracene	**<12.4**	ug/kg	23.9	12.4	1	11/18/15 09:22	11/19/15 14:10	120-12-7	
Benzo(a)anthracene	**30.6**	ug/kg	23.9	8.3	1	11/18/15 09:22	11/19/15 14:10	56-55-3	
Benzo(a)pyrene	**35.6**	ug/kg	23.9	8.5	1	11/18/15 09:22	11/19/15 14:10	50-32-8	
Benzo(b)fluoranthene	**43.4**	ug/kg	23.9	11.9	1	11/18/15 09:22	11/19/15 14:10	205-99-2	
Benzo(g,h,i)perylene	**30.5**	ug/kg	23.9	9.1	1	11/18/15 09:22	11/19/15 14:10	191-24-2	
Benzo(k)fluoranthene	**46.9**	ug/kg	23.9	13.2	1	11/18/15 09:22	11/19/15 14:10	207-08-9	
Chrysene	**50.3**	ug/kg	23.9	11.0	1	11/18/15 09:22	11/19/15 14:10	218-01-9	
Dibenz(a,h)anthracene	**9.0J**	ug/kg	23.9	8.8	1	11/18/15 09:22	11/19/15 14:10	53-70-3	
Fluoranthene	**64.3**	ug/kg	23.9	11.9	1	11/18/15 09:22	11/19/15 14:10	206-44-0	
Fluorene	**<11.9**	ug/kg	23.9	11.9	1	11/18/15 09:22	11/19/15 14:10	86-73-7	
Indeno(1,2,3-cd)pyrene	**26.2**	ug/kg	23.9	9.1	1	11/18/15 09:22	11/19/15 14:10	193-39-5	
1-Methylnaphthalene	**<11.9**	ug/kg	23.9	11.9	1	11/18/15 09:22	11/19/15 14:10	90-12-0	
2-Methylnaphthalene	**13.8J**	ug/kg	23.9	11.9	1	11/18/15 09:22	11/19/15 14:10	91-57-6	
Naphthalene	**<11.9**	ug/kg	23.9	11.9	1	11/18/15 09:22	11/19/15 14:10	91-20-3	
Phenanthrene	**37.2**	ug/kg	23.9	11.9	1	11/18/15 09:22	11/19/15 14:10	85-01-8	
Pyrene	**56.5**	ug/kg	23.9	11.9	1	11/18/15 09:22	11/19/15 14:10	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	48	%	39-130		1	11/18/15 09:22	11/19/15 14:10	321-60-8	
Terphenyl-d14 (S)	51	%	37-130		1	11/18/15 09:22	11/19/15 14:10	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	11/12/15 07:00	11/12/15 11:11	120-82-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-2 (2-4') **Lab ID: 40124487002** Collected: 11/09/15 09:00 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	11/12/15 07:00	11/12/15 11:11	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	11/12/15 07:00	11/12/15 11:11	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	11/12/15 07:00	11/12/15 11:11	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	11/12/15 07:00	11/12/15 11:11	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	11/12/15 07:00	11/12/15 11:11	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	11/12/15 07:00	11/12/15 11:11	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	10061-01-5	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	103-65-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-2 (2-4') **Lab ID: 40124487002** Collected: 11/09/15 09:00 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 11:11	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	123	%	49-157		1	11/12/15 07:00	11/12/15 11:11	1868-53-7	
Toluene-d8 (S)	118	%	61-148		1	11/12/15 07:00	11/12/15 11:11	2037-26-5	
4-Bromofluorobenzene (S)	110	%	53-134		1	11/12/15 07:00	11/12/15 11:11	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**30.2**	%	0.10	0.10	1		11/11/15 14:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-3 (3-5') **Lab ID: 40124487003** Collected: 11/09/15 09:15 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<27.9**	ug/kg	55.7	27.9	1	11/12/15 11:55	11/13/15 13:11	12674-11-2	
PCB-1221 (Aroclor 1221)	**<27.9**	ug/kg	55.7	27.9	1	11/12/15 11:55	11/13/15 13:11	11104-28-2	
PCB-1232 (Aroclor 1232)	**<27.9**	ug/kg	55.7	27.9	1	11/12/15 11:55	11/13/15 13:11	11141-16-5	
PCB-1242 (Aroclor 1242)	**<27.9**	ug/kg	55.7	27.9	1	11/12/15 11:55	11/13/15 13:11	53469-21-9	
PCB-1248 (Aroclor 1248)	**<27.9**	ug/kg	55.7	27.9	1	11/12/15 11:55	11/13/15 13:11	12672-29-6	
PCB-1254 (Aroclor 1254)	**<27.9**	ug/kg	55.7	27.9	1	11/12/15 11:55	11/13/15 13:11	11097-69-1	
PCB-1260 (Aroclor 1260)	**<27.9**	ug/kg	55.7	27.9	1	11/12/15 11:55	11/13/15 13:11	11096-82-5	
PCB, Total	**<27.9**	ug/kg	55.7	27.9	1	11/12/15 11:55	11/13/15 13:11	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	46-130		1	11/12/15 11:55	11/13/15 13:11	877-09-8	
Decachlorobiphenyl (S)	84	%	39-130		1	11/12/15 11:55	11/13/15 13:11	2051-24-3	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**19.5**	mg/kg	1.9	0.75	1	11/15/15 07:56	11/17/15 16:10		T4
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.8**	mg/kg	5.6	2.8	1	11/12/15 06:40	11/13/15 00:24		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**5.7**	mg/kg	2.0	0.65	1	11/18/15 13:23	11/19/15 20:17	7440-38-2	
Barium	**68.1**	mg/kg	0.51	0.12	1	11/18/15 13:23	11/19/15 20:17	7440-39-3	
Cadmium	**0.28J**	mg/kg	0.51	0.068	1	11/18/15 13:23	11/19/15 20:17	7440-43-9	B
Chromium	**8.9**	mg/kg	0.51	0.20	1	11/18/15 13:23	11/19/15 20:17	7440-47-3	
Lead	**864**	mg/kg	1.0	0.44	1	11/18/15 13:23	11/19/15 20:17	7439-92-1	
Selenium	**1.3J**	mg/kg	2.0	0.79	1	11/18/15 13:23	11/19/15 20:17	7782-49-2	
Silver	**0.74J**	mg/kg	1.0	0.28	1	11/18/15 13:23	11/19/15 20:17	7440-22-4	B
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 11/12/15 11:01								
Arsenic	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 13:38	7440-38-2	
Barium	**<1.2**	mg/L	2.5	1.2	1	11/19/15 16:57	11/20/15 13:38	7440-39-3	
Cadmium	**<0.012**	mg/L	0.025	0.012	1	11/19/15 16:57	11/20/15 13:38	7440-43-9	
Chromium	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 13:38	7440-47-3	
Lead	**<0.015**	mg/L	0.038	0.015	1	11/19/15 16:57	11/20/15 13:38	7439-92-1	
Selenium	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 13:38	7782-49-2	
Silver	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 13:38	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Leachate Method/Date: EPA 1311; 11/12/15 11:03								
Mercury	**<0.00010**	mg/L	0.00020	0.00010	1	11/18/15 13:05	11/19/15 14:57	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.030**	mg/kg	0.010	0.0031	1	11/17/15 09:06	11/18/15 12:01	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-3 (3-5') **Lab ID: 40124487003** Collected: 11/09/15 09:15 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<9.3**	ug/kg	18.6	9.3	1	11/18/15 09:22	11/19/15 13:18	83-32-9	
Acenaphthylene	**<8.3**	ug/kg	18.6	8.3	1	11/18/15 09:22	11/19/15 13:18	208-96-8	
Anthracene	**10.4J**	ug/kg	18.6	9.6	1	11/18/15 09:22	11/19/15 13:18	120-12-7	
Benzo(a)anthracene	**18.1J**	ug/kg	18.6	6.4	1	11/18/15 09:22	11/19/15 13:18	56-55-3	
Benzo(a)pyrene	**16.3J**	ug/kg	18.6	6.6	1	11/18/15 09:22	11/19/15 13:18	50-32-8	
Benzo(b)fluoranthene	**18.6**	ug/kg	18.6	9.3	1	11/18/15 09:22	11/19/15 13:18	205-99-2	
Benzo(g,h,i)perylene	**16.0J**	ug/kg	18.6	7.1	1	11/18/15 09:22	11/19/15 13:18	191-24-2	
Benzo(k)fluoranthene	**18.2J**	ug/kg	18.6	10.3	1	11/18/15 09:22	11/19/15 13:18	207-08-9	
Chrysene	**24.4**	ug/kg	18.6	8.6	1	11/18/15 09:22	11/19/15 13:18	218-01-9	
Dibenz(a,h)anthracene	**<6.8**	ug/kg	18.6	6.8	1	11/18/15 09:22	11/19/15 13:18	53-70-3	
Fluoranthene	**51.5**	ug/kg	18.6	9.3	1	11/18/15 09:22	11/19/15 13:18	206-44-0	
Fluorene	**<9.3**	ug/kg	18.6	9.3	1	11/18/15 09:22	11/19/15 13:18	86-73-7	
Indeno(1,2,3-cd)pyrene	**12.5J**	ug/kg	18.6	7.1	1	11/18/15 09:22	11/19/15 13:18	193-39-5	
1-Methylnaphthalene	**9.9J**	ug/kg	18.6	9.3	1	11/18/15 09:22	11/19/15 13:18	90-12-0	
2-Methylnaphthalene	**13.1J**	ug/kg	18.6	9.3	1	11/18/15 09:22	11/19/15 13:18	91-57-6	
Naphthalene	**24.4**	ug/kg	18.6	9.3	1	11/18/15 09:22	11/19/15 13:18	91-20-3	
Phenanthrene	**41.9**	ug/kg	18.6	9.3	1	11/18/15 09:22	11/19/15 13:18	85-01-8	
Pyrene	**34.9**	ug/kg	18.6	9.3	1	11/18/15 09:22	11/19/15 13:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	39-130		1	11/18/15 09:22	11/19/15 13:18	321-60-8	
Terphenyl-d14 (S)	63	%	37-130		1	11/18/15 09:22	11/19/15 13:18	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	11/12/15 07:00	11/13/15 11:33	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	11/12/15 07:00	11/13/15 11:33	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	11/12/15 07:00	11/13/15 11:33	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	11/12/15 07:00	11/13/15 11:33	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	541-73-1	W

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-3 (3-5') **Lab ID: 40124487003** Collected: 11/09/15 09:15 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	11/12/15 07:00	11/13/15 11:33	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	11/12/15 07:00	11/13/15 11:33	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:33	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	11/12/15 07:00	11/13/15 11:33	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	110	%	49-157		1	11/12/15 07:00	11/13/15 11:33	1868-53-7	
Toluene-d8 (S)	104	%	61-148		1	11/12/15 07:00	11/13/15 11:33	2037-26-5	
4-Bromofluorobenzene (S)	96	%	53-134		1	11/12/15 07:00	11/13/15 11:33	460-00-4	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 11/17/15 12:03								
Benzene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 19:24	71-43-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-3 (3-5') **Lab ID: 40124487003** Collected: 11/09/15 09:15 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 11/17/15 12:03								
2-Butanone (MEK)	**<29.8**	ug/L	200	29.8	10		11/18/15 19:24	78-93-3	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		11/18/15 19:24	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 19:24	108-90-7	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		11/18/15 19:24	67-66-3	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		11/18/15 19:24	107-06-2	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		11/18/15 19:24	75-35-4	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 19:24	127-18-4	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		11/18/15 19:24	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		11/18/15 19:24	75-01-4	
Surrogates									
Toluene-d8 (S)	103	%	70-130		10		11/18/15 19:24	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		10		11/18/15 19:24	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		10		11/18/15 19:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.3**	%	0.10	0.10	1		11/11/15 15:18		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-4 (2-4') **Lab ID: 40124487004** Collected: 11/09/15 09:45 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**9.6J**	mg/kg	10.7	3.4	5	11/18/15 13:23	11/20/15 14:08	7440-38-2	D3
Barium	**88.2**	mg/kg	0.53	0.13	1	11/18/15 13:23	11/19/15 20:19	7440-39-3	
Cadmium	**2.2J**	mg/kg	2.7	0.35	5	11/18/15 13:23	11/20/15 14:08	7440-43-9	D3
Chromium	**14.6**	mg/kg	0.53	0.21	1	11/18/15 13:23	11/19/15 20:19	7440-47-3	
Lead	**43.9**	mg/kg	5.3	2.3	5	11/18/15 13:23	11/20/15 14:08	7439-92-1	
Selenium	**2.6**	mg/kg	2.1	0.82	1	11/18/15 13:23	11/19/15 20:19	7782-49-2	
Silver	**0.98J**	mg/kg	1.1	0.30	1	11/18/15 13:23	11/19/15 20:19	7440-22-4	B
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.0046J**	mg/kg	0.011	0.0032	1	11/17/15 09:06	11/18/15 12:03	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<9.7**	ug/kg	19.4	9.7	1	11/18/15 09:22	11/19/15 15:57	83-32-9	
Acenaphthylene	**<8.7**	ug/kg	19.4	8.7	1	11/18/15 09:22	11/19/15 15:57	208-96-8	
Anthracene	**<10.1**	ug/kg	19.4	10.1	1	11/18/15 09:22	11/19/15 15:57	120-12-7	
Benzo(a)anthracene	**11.9J**	ug/kg	19.4	6.7	1	11/18/15 09:22	11/19/15 15:57	56-55-3	
Benzo(a)pyrene	**11.0J**	ug/kg	19.4	6.9	1	11/18/15 09:22	11/19/15 15:57	50-32-8	
Benzo(b)fluoranthene	**12.2J**	ug/kg	19.4	9.7	1	11/18/15 09:22	11/19/15 15:57	205-99-2	
Benzo(g,h,i)perylene	**7.7J**	ug/kg	19.4	7.4	1	11/18/15 09:22	11/19/15 15:57	191-24-2	
Benzo(k)fluoranthene	**<10.7**	ug/kg	19.4	10.7	1	11/18/15 09:22	11/19/15 15:57	207-08-9	
Chrysene	**19.5**	ug/kg	19.4	9.0	1	11/18/15 09:22	11/19/15 15:57	218-01-9	
Dibenz(a,h)anthracene	**<7.1**	ug/kg	19.4	7.1	1	11/18/15 09:22	11/19/15 15:57	53-70-3	
Fluoranthene	**29.2**	ug/kg	19.4	9.7	1	11/18/15 09:22	11/19/15 15:57	206-44-0	
Fluorene	**<9.7**	ug/kg	19.4	9.7	1	11/18/15 09:22	11/19/15 15:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**<7.4**	ug/kg	19.4	7.4	1	11/18/15 09:22	11/19/15 15:57	193-39-5	
1-Methylnaphthalene	**36.9**	ug/kg	19.4	9.7	1	11/18/15 09:22	11/19/15 15:57	90-12-0	
2-Methylnaphthalene	**61.0**	ug/kg	19.4	9.7	1	11/18/15 09:22	11/19/15 15:57	91-57-6	
Naphthalene	**31.8**	ug/kg	19.4	9.7	1	11/18/15 09:22	11/19/15 15:57	91-20-3	
Phenanthrene	**59.1**	ug/kg	19.4	9.7	1	11/18/15 09:22	11/19/15 15:57	85-01-8	
Pyrene	**23.0**	ug/kg	19.4	9.7	1	11/18/15 09:22	11/19/15 15:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-130		1	11/18/15 09:22	11/19/15 15:57	321-60-8	
Terphenyl-d14 (S)	57	%	37-130		1	11/18/15 09:22	11/19/15 15:57	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	11/12/15 07:00	11/13/15 11:56	120-82-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-4 (2-4') **Lab ID: 40124487004** Collected: 11/09/15 09:45 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	11/12/15 07:00	11/13/15 11:56	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	11/12/15 07:00	11/13/15 11:56	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	11/12/15 07:00	11/13/15 11:56	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	11/12/15 07:00	11/13/15 11:56	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	11/12/15 07:00	11/13/15 11:56	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	11/12/15 07:00	11/13/15 11:56	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	10061-01-5	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	103-65-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-4 (2-4') **Lab ID: 40124487004** Collected: 11/09/15 09:45 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/13/15 11:56	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	49-157		1	11/12/15 07:00	11/13/15 11:56	1868-53-7	
Toluene-d8 (S)	89	%	61-148		1	11/12/15 07:00	11/13/15 11:56	2037-26-5	
4-Bromofluorobenzene (S)	75	%	53-134		1	11/12/15 07:00	11/13/15 11:56	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.2**	%	0.10	0.10	1		11/11/15 15:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-5 (2-4') **Lab ID: 40124487005** Collected: 11/09/15 10:15 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<52.8**	ug/kg	106	52.8	1	11/12/15 11:55	11/13/15 13:29	12674-11-2	
PCB-1221 (Aroclor 1221)	**<52.8**	ug/kg	106	52.8	1	11/12/15 11:55	11/13/15 13:29	11104-28-2	
PCB-1232 (Aroclor 1232)	**<52.8**	ug/kg	106	52.8	1	11/12/15 11:55	11/13/15 13:29	11141-16-5	
PCB-1242 (Aroclor 1242)	**<52.8**	ug/kg	106	52.8	1	11/12/15 11:55	11/13/15 13:29	53469-21-9	
PCB-1248 (Aroclor 1248)	**<52.8**	ug/kg	106	52.8	1	11/12/15 11:55	11/13/15 13:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**<52.8**	ug/kg	106	52.8	1	11/12/15 11:55	11/13/15 13:29	11097-69-1	
PCB-1260 (Aroclor 1260)	**<52.8**	ug/kg	106	52.8	1	11/12/15 11:55	11/13/15 13:29	11096-82-5	
PCB, Total	**<52.8**	ug/kg	106	52.8	1	11/12/15 11:55	11/13/15 13:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	46-130		1	11/12/15 11:55	11/13/15 13:29	877-09-8	
Decachlorobiphenyl (S)	85	%	39-130		1	11/12/15 11:55	11/13/15 13:29	2051-24-3	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**420**	mg/kg	22.9	9.2	5	11/15/15 07:56	11/18/15 08:53		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**8.7J**	mg/kg	14.5	7.2	1	11/12/15 06:40	11/12/15 20:08		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**11.4**	mg/kg	4.0	1.3	1	11/18/15 13:23	11/19/15 20:22	7440-38-2	
Barium	**138**	mg/kg	1.0	0.24	1	11/18/15 13:23	11/19/15 20:22	7440-39-3	
Cadmium	**0.36J**	mg/kg	1.0	0.13	1	11/18/15 13:23	11/19/15 20:22	7440-43-9	B
Chromium	**19.6**	mg/kg	1.0	0.39	1	11/18/15 13:23	11/19/15 20:22	7440-47-3	
Lead	**16.5**	mg/kg	2.0	0.87	1	11/18/15 13:23	11/19/15 20:22	7439-92-1	
Selenium	**2.7J**	mg/kg	4.0	1.6	1	11/18/15 13:23	11/19/15 20:22	7782-49-2	
Silver	**1.5J**	mg/kg	2.0	0.56	1	11/18/15 13:23	11/19/15 20:22	7440-22-4	B
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 11/12/15 11:01								
Arsenic	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 12:49	7440-38-2	
Barium	**<1.2**	mg/L	2.5	1.2	1	11/19/15 16:57	11/20/15 12:49	7440-39-3	
Cadmium	**<0.012**	mg/L	0.025	0.012	1	11/19/15 16:57	11/20/15 12:49	7440-43-9	
Chromium	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 12:49	7440-47-3	
Lead	**0.034J**	mg/L	0.038	0.015	1	11/19/15 16:57	11/20/15 12:49	7439-92-1	
Selenium	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 12:49	7782-49-2	
Silver	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 12:49	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Leachate Method/Date: EPA 1311; 11/12/15 11:03								
Mercury	**<0.00010**	mg/L	0.00020	0.00010	1	11/18/15 13:05	11/19/15 15:00	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.036**	mg/kg	0.020	0.0060	1	11/17/15 09:06	11/18/15 12:06	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-5 (2-4') **Lab ID: 40124487005** Collected: 11/09/15 10:15 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**26.3J**	ug/kg	35.2	17.6	1	11/18/15 09:22	11/19/15 13:01	83-32-9	
Acenaphthylene	**31.6J**	ug/kg	35.2	15.7	1	11/18/15 09:22	11/19/15 13:01	208-96-8	
Anthracene	**58.2**	ug/kg	35.2	18.2	1	11/18/15 09:22	11/19/15 13:01	120-12-7	
Benzo(a)anthracene	**102**	ug/kg	35.2	12.2	1	11/18/15 09:22	11/19/15 13:01	56-55-3	
Benzo(a)pyrene	**102**	ug/kg	35.2	12.6	1	11/18/15 09:22	11/19/15 13:01	50-32-8	
Benzo(b)fluoranthene	**111**	ug/kg	35.2	17.6	1	11/18/15 09:22	11/19/15 13:01	205-99-2	
Benzo(g,h,i)perylene	**93.4**	ug/kg	35.2	13.4	1	11/18/15 09:22	11/19/15 13:01	191-24-2	
Benzo(k)fluoranthene	**105**	ug/kg	35.2	19.5	1	11/18/15 09:22	11/19/15 13:01	207-08-9	
Chrysene	**145**	ug/kg	35.2	16.3	1	11/18/15 09:22	11/19/15 13:01	218-01-9	
Dibenz(a,h)anthracene	**27.3J**	ug/kg	35.2	12.9	1	11/18/15 09:22	11/19/15 13:01	53-70-3	
Fluoranthene	**231**	ug/kg	35.2	17.6	1	11/18/15 09:22	11/19/15 13:01	206-44-0	
Fluorene	**28.8J**	ug/kg	35.2	17.6	1	11/18/15 09:22	11/19/15 13:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**72.1**	ug/kg	35.2	13.4	1	11/18/15 09:22	11/19/15 13:01	193-39-5	
1-Methylnaphthalene	**178**	ug/kg	35.2	17.6	1	11/18/15 09:22	11/19/15 13:01	90-12-0	
2-Methylnaphthalene	**275**	ug/kg	35.2	17.6	1	11/18/15 09:22	11/19/15 13:01	91-57-6	
Naphthalene	**193**	ug/kg	35.2	17.6	1	11/18/15 09:22	11/19/15 13:01	91-20-3	
Phenanthrene	**293**	ug/kg	35.2	17.6	1	11/18/15 09:22	11/19/15 13:01	85-01-8	
Pyrene	**200**	ug/kg	35.2	17.6	1	11/18/15 09:22	11/19/15 13:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	39-130		1	11/18/15 09:22	11/19/15 13:01	321-60-8	
Terphenyl-d14 (S)	59	%	37-130		1	11/18/15 09:22	11/19/15 13:01	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	71-43-2	W
Bromobenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	108-86-1	W
Bromochloromethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	74-97-5	W
Bromodichloromethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	75-27-4	W
Bromoform	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	75-25-2	W
Bromomethane	**<88.5**	ug/kg	316	88.5	1	11/12/15 07:00	11/13/15 12:42	74-83-9	W
n-Butylbenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	104-51-8	W
sec-Butylbenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	135-98-8	W
tert-Butylbenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	98-06-6	W
Carbon tetrachloride	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	56-23-5	W
Chlorobenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	108-90-7	W
Chloroethane	**<84.8**	ug/kg	316	84.8	1	11/12/15 07:00	11/13/15 12:42	75-00-3	W
Chloroform	**<58.8**	ug/kg	316	58.8	1	11/12/15 07:00	11/13/15 12:42	67-66-3	W
Chloromethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	74-87-3	W
2-Chlorotoluene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	95-49-8	W
4-Chlorotoluene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	106-43-4	W
1,2-Dibromo-3-chloropropane	**<115**	ug/kg	316	115	1	11/12/15 07:00	11/13/15 12:42	96-12-8	W
Dibromochloromethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	124-48-1	W
1,2-Dibromoethane (EDB)	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	106-93-4	W
Dibromomethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	74-95-3	W
1,2-Dichlorobenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	95-50-1	W
1,3-Dichlorobenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	541-73-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-5 (2-4') **Lab ID: 40124487005** Collected: 11/09/15 10:15 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	106-46-7	W
Dichlorodifluoromethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	75-71-8	W
1,1-Dichloroethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	75-34-3	W
1,2-Dichloroethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	107-06-2	W
1,1-Dichloroethene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	75-35-4	W
cis-1,2-Dichloroethene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	156-59-2	W
trans-1,2-Dichloroethene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	156-60-5	W
1,2-Dichloropropane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	78-87-5	W
1,3-Dichloropropane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	142-28-9	W
2,2-Dichloropropane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	594-20-7	W
1,1-Dichloropropene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	563-58-6	W
cis-1,3-Dichloropropene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	10061-01-5	W
trans-1,3-Dichloropropene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	10061-02-6	W
Diisopropyl ether	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	108-20-3	W
Ethylbenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	100-41-4	W
Hexachloro-1,3-butadiene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	87-68-3	W
Isopropylbenzene (Cumene)	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	98-82-8	W
p-Isopropyltoluene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	99-87-6	W
Methylene Chloride	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	75-09-2	W
Methyl-tert-butyl ether	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	1634-04-4	W
Naphthalene	**<50.7**	ug/kg	316	50.7	1	11/12/15 07:00	11/13/15 12:42	91-20-3	W
n-Propylbenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	103-65-1	W
Styrene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	100-42-5	W
1,1,1,2-Tetrachloroethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	630-20-6	W
1,1,2,2-Tetrachloroethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	79-34-5	W
Tetrachloroethene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	127-18-4	W
Toluene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	108-88-3	W
1,2,3-Trichlorobenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	87-61-6	W
1,2,4-Trichlorobenzene	**<60.2**	ug/kg	316	60.2	1	11/12/15 07:00	11/13/15 12:42	120-82-1	W
1,1,1-Trichloroethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	71-55-6	W
1,1,2-Trichloroethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	79-00-5	W
Trichloroethene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	79-01-6	W
Trichlorofluoromethane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	75-69-4	W
1,2,3-Trichloropropane	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	96-18-4	W
1,2,4-Trimethylbenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	95-63-6	W
1,3,5-Trimethylbenzene	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	108-67-8	W
Vinyl chloride	**<31.6**	ug/kg	75.9	31.6	1	11/12/15 07:00	11/13/15 12:42	75-01-4	W
Xylene (Total)	**<94.9**	ug/kg	228	94.9	1	11/12/15 07:00	11/13/15 12:42	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	114	%	49-157		1	11/12/15 07:00	11/13/15 12:42	1868-53-7	
Toluene-d8 (S)	96	%	61-148		1	11/12/15 07:00	11/13/15 12:42	2037-26-5	
4-Bromofluorobenzene (S)	93	%	53-134		1	11/12/15 07:00	11/13/15 12:42	460-00-4	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 11/17/15 12:03								
Benzene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 19:46	71-43-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-5 (2-4') **Lab ID: 40124487005** Collected: 11/09/15 10:15 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 11/17/15 12:03								
2-Butanone (MEK)	**<29.8**	ug/L	200	29.8	10		11/18/15 19:46	78-93-3	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		11/18/15 19:46	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 19:46	108-90-7	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		11/18/15 19:46	67-66-3	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		11/18/15 19:46	107-06-2	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		11/18/15 19:46	75-35-4	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 19:46	127-18-4	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		11/18/15 19:46	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		11/18/15 19:46	75-01-4	
Surrogates									
Toluene-d8 (S)	109	%	70-130		10		11/18/15 19:46	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		10		11/18/15 19:46	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		10		11/18/15 19:46	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**52.6**	%	0.10	0.10	1		11/11/15 15:18		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-6 (3-5') **Lab ID: 40124487006** Collected: 11/09/15 10:30 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<31.3**	ug/kg	62.6	31.3	1	11/16/15 13:06	11/17/15 13:03	12674-11-2	
PCB-1221 (Aroclor 1221)	**<31.3**	ug/kg	62.6	31.3	1	11/16/15 13:06	11/17/15 13:03	11104-28-2	
PCB-1232 (Aroclor 1232)	**<31.3**	ug/kg	62.6	31.3	1	11/16/15 13:06	11/17/15 13:03	11141-16-5	
PCB-1242 (Aroclor 1242)	**<31.3**	ug/kg	62.6	31.3	1	11/16/15 13:06	11/17/15 13:03	53469-21-9	
PCB-1248 (Aroclor 1248)	**<31.3**	ug/kg	62.6	31.3	1	11/16/15 13:06	11/17/15 13:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**<31.3**	ug/kg	62.6	31.3	1	11/16/15 13:06	11/17/15 13:03	11097-69-1	
PCB-1260 (Aroclor 1260)	**<31.3**	ug/kg	62.6	31.3	1	11/16/15 13:06	11/17/15 13:03	11096-82-5	
PCB, Total	**<31.3**	ug/kg	62.6	31.3	1	11/16/15 13:06	11/17/15 13:03	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	46-130		1	11/16/15 13:06	11/17/15 13:03	877-09-8	
Decachlorobiphenyl (S)	73	%	39-130		1	11/16/15 13:06	11/17/15 13:03	2051-24-3	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**125000**	mg/kg	5920	2380	500	11/15/15 07:56	11/18/15 09:11		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**1440**	mg/kg	168	84.2	25	11/12/15 06:40	11/12/15 22:16		G+
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**7.1**	mg/kg	2.5	0.78	1	11/18/15 13:23	11/19/15 20:24	7440-38-2	
Barium	**70.8**	mg/kg	0.61	0.15	1	11/18/15 13:23	11/19/15 20:24	7440-39-3	
Cadmium	**2.3**	mg/kg	0.61	0.081	1	11/18/15 13:23	11/19/15 20:24	7440-43-9	
Chromium	**7.7**	mg/kg	0.61	0.24	1	11/18/15 13:23	11/19/15 20:24	7440-47-3	
Lead	**37.2**	mg/kg	1.2	0.53	1	11/18/15 13:23	11/19/15 20:24	7439-92-1	
Selenium	**1.6J**	mg/kg	2.5	0.95	1	11/18/15 13:23	11/19/15 20:24	7782-49-2	
Silver	**0.75J**	mg/kg	1.2	0.34	1	11/18/15 13:23	11/19/15 20:24	7440-22-4	B
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 11/12/15 11:01								
Arsenic	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 13:46	7440-38-2	
Barium	**<1.2**	mg/L	2.5	1.2	1	11/19/15 16:57	11/20/15 13:46	7440-39-3	
Cadmium	**<0.012**	mg/L	0.025	0.012	1	11/19/15 16:57	11/20/15 13:46	7440-43-9	
Chromium	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 13:46	7440-47-3	
Lead	**0.018J**	mg/L	0.038	0.015	1	11/19/15 16:57	11/20/15 13:46	7439-92-1	
Selenium	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 13:46	7782-49-2	
Silver	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 13:46	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Leachate Method/Date: EPA 1311; 11/12/15 11:03								
Mercury	**<0.00010**	mg/L	0.00020	0.00010	1	11/18/15 13:05	11/19/15 15:02	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.038**	mg/kg	0.011	0.0034	1	11/17/15 09:06	11/18/15 12:08	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-6 (3-5') **Lab ID: 40124487006** Collected: 11/09/15 10:30 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**101**	ug/kg	83.5	41.8	4	11/18/15 09:22	11/19/15 16:31	83-32-9	
Acenaphthylene	**40.2J**	ug/kg	83.5	37.4	4	11/18/15 09:22	11/19/15 16:31	208-96-8	
Anthracene	**334**	ug/kg	83.5	43.3	4	11/18/15 09:22	11/19/15 16:31	120-12-7	
Benzo(a)anthracene	**435**	ug/kg	83.5	29.0	4	11/18/15 09:22	11/19/15 16:31	56-55-3	
Benzo(a)pyrene	**315**	ug/kg	83.5	29.9	4	11/18/15 09:22	11/19/15 16:31	50-32-8	
Benzo(b)fluoranthene	**276**	ug/kg	83.5	41.8	4	11/18/15 09:22	11/19/15 16:31	205-99-2	
Benzo(g,h,i)perylene	**172**	ug/kg	83.5	31.8	4	11/18/15 09:22	11/19/15 16:31	191-24-2	
Benzo(k)fluoranthene	**238**	ug/kg	83.5	46.2	4	11/18/15 09:22	11/19/15 16:31	207-08-9	
Chrysene	**632**	ug/kg	83.5	38.6	4	11/18/15 09:22	11/19/15 16:31	218-01-9	
Dibenz(a,h)anthracene	**67.9J**	ug/kg	83.5	30.6	4	11/18/15 09:22	11/19/15 16:31	53-70-3	
Fluoranthene	**854**	ug/kg	83.5	41.8	4	11/18/15 09:22	11/19/15 16:31	206-44-0	
Fluorene	**183**	ug/kg	83.5	41.8	4	11/18/15 09:22	11/19/15 16:31	86-73-7	
Indeno(1,2,3-cd)pyrene	**123**	ug/kg	83.5	31.7	4	11/18/15 09:22	11/19/15 16:31	193-39-5	
1-Methylnaphthalene	**774**	ug/kg	83.5	41.8	4	11/18/15 09:22	11/19/15 16:31	90-12-0	
2-Methylnaphthalene	**991**	ug/kg	83.5	41.8	4	11/18/15 09:22	11/19/15 16:31	91-57-6	
Naphthalene	**533**	ug/kg	83.5	41.8	4	11/18/15 09:22	11/19/15 16:31	91-20-3	
Phenanthrene	**1210**	ug/kg	83.5	41.8	4	11/18/15 09:22	11/19/15 16:31	85-01-8	
Pyrene	**858**	ug/kg	83.5	41.8	4	11/18/15 09:22	11/19/15 16:31	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	39-130		4	11/18/15 09:22	11/19/15 16:31	321-60-8	
Terphenyl-d14 (S)	50	%	37-130		4	11/18/15 09:22	11/19/15 16:31	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	71-43-2	W
Bromobenzene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	108-86-1	W
Bromochloromethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	74-97-5	W
Bromodichloromethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	75-27-4	W
Bromoform	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	75-25-2	W
Bromomethane	**<699**	ug/kg	2500	699	10	11/12/15 07:00	11/13/15 13:04	74-83-9	W
n-Butylbenzene	**7640**	ug/kg	752	313	10	11/12/15 07:00	11/13/15 13:04	104-51-8	
sec-Butylbenzene	**2920**	ug/kg	752	313	10	11/12/15 07:00	11/13/15 13:04	135-98-8	
tert-Butylbenzene	**330J**	ug/kg	752	313	10	11/12/15 07:00	11/13/15 13:04	98-06-6	
Carbon tetrachloride	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	56-23-5	W
Chlorobenzene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	108-90-7	W
Chloroethane	**<670**	ug/kg	2500	670	10	11/12/15 07:00	11/13/15 13:04	75-00-3	W
Chloroform	**<464**	ug/kg	2500	464	10	11/12/15 07:00	11/13/15 13:04	67-66-3	W
Chloromethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	74-87-3	W
2-Chlorotoluene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	95-49-8	W
4-Chlorotoluene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	106-43-4	W
1,2-Dibromo-3-chloropropane	**<912**	ug/kg	2500	912	10	11/12/15 07:00	11/13/15 13:04	96-12-8	W
Dibromochloromethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	124-48-1	W
1,2-Dibromoethane (EDB)	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	106-93-4	W
Dibromomethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	74-95-3	W
1,2-Dichlorobenzene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	95-50-1	W
1,3-Dichlorobenzene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	541-73-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-6 (3-5') **Lab ID: 40124487006** Collected: 11/09/15 10:30 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	106-46-7	W
Dichlorodifluoromethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	75-71-8	W
1,1-Dichloroethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	75-34-3	W
1,2-Dichloroethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	107-06-2	W
1,1-Dichloroethene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	75-35-4	W
cis-1,2-Dichloroethene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	156-59-2	W
trans-1,2-Dichloroethene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	156-60-5	W
1,2-Dichloropropane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	78-87-5	W
1,3-Dichloropropane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	142-28-9	W
2,2-Dichloropropane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	594-20-7	W
1,1-Dichloropropene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	563-58-6	W
cis-1,3-Dichloropropene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	10061-01-5	W
trans-1,3-Dichloropropene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	10061-02-6	W
Diisopropyl ether	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	108-20-3	W
Ethylbenzene	**552J**	ug/kg	752	313	10	11/12/15 07:00	11/13/15 13:04	100-41-4	
Hexachloro-1,3-butadiene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	87-68-3	W
Isopropylbenzene (Cumene)	**2560**	ug/kg	752	313	10	11/12/15 07:00	11/13/15 13:04	98-82-8	
p-Isopropyltoluene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	99-87-6	W
Methylene Chloride	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	75-09-2	W
Methyl-tert-butyl ether	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	1634-04-4	W
Naphthalene	**9920**	ug/kg	3130	502	10	11/12/15 07:00	11/13/15 13:04	91-20-3	
n-Propylbenzene	**4730**	ug/kg	752	313	10	11/12/15 07:00	11/13/15 13:04	103-65-1	
Styrene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	100-42-5	W
1,1,1,2-Tetrachloroethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	630-20-6	W
1,1,2,2-Tetrachloroethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	79-34-5	W
Tetrachloroethene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	127-18-4	W
Toluene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	108-88-3	W
1,2,3-Trichlorobenzene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	87-61-6	W
1,2,4-Trichlorobenzene	**<476**	ug/kg	2500	476	10	11/12/15 07:00	11/13/15 13:04	120-82-1	W
1,1,1-Trichloroethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	71-55-6	W
1,1,2-Trichloroethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	79-00-5	W
Trichloroethene	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	79-01-6	W
Trichlorofluoromethane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	75-69-4	W
1,2,3-Trichloropropane	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	96-18-4	W
1,2,4-Trimethylbenzene	**1680**	ug/kg	752	313	10	11/12/15 07:00	11/13/15 13:04	95-63-6	
1,3,5-Trimethylbenzene	**319J**	ug/kg	752	313	10	11/12/15 07:00	11/13/15 13:04	108-67-8	
Vinyl chloride	**<250**	ug/kg	600	250	10	11/12/15 07:00	11/13/15 13:04	75-01-4	W
Xylene (Total)	**2330**	ug/kg	2260	940	10	11/12/15 07:00	11/13/15 13:04	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	123	%	49-157		10	11/12/15 07:00	11/13/15 13:04	1868-53-7	D3
Toluene-d8 (S)	87	%	61-148		10	11/12/15 07:00	11/13/15 13:04	2037-26-5	
4-Bromofluorobenzene (S)	132	%	53-134		10	11/12/15 07:00	11/13/15 13:04	460-00-4	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 11/17/15 12:03								
Benzene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 20:08	71-43-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-6 (3-5') **Lab ID: 40124487006** Collected: 11/09/15 10:30 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 11/17/15 12:03								
2-Butanone (MEK)	**<29.8**	ug/L	200	29.8	10		11/18/15 20:08	78-93-3	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		11/18/15 20:08	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 20:08	108-90-7	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		11/18/15 20:08	67-66-3	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		11/18/15 20:08	107-06-2	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		11/18/15 20:08	75-35-4	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 20:08	127-18-4	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		11/18/15 20:08	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		11/18/15 20:08	75-01-4	
Surrogates									
Toluene-d8 (S)	104	%	70-130		10		11/18/15 20:08	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		10		11/18/15 20:08	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		10		11/18/15 20:08	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.2**	%	0.10	0.10	1		11/11/15 15:18		

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-7 (2-4') **Lab ID: 40124487007** Collected: 11/09/15 11:00 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**18.5**	mg/kg	4.5	1.4	2	11/18/15 13:23	11/20/15 14:11	7440-38-2	
Barium	**92.8**	mg/kg	0.56	0.13	1	11/18/15 13:23	11/19/15 20:27	7440-39-3	
Cadmium	**0.84J**	mg/kg	1.1	0.15	2	11/18/15 13:23	11/20/15 14:11	7440-43-9	B,D3
Chromium	**10.2**	mg/kg	0.56	0.22	1	11/18/15 13:23	11/19/15 20:27	7440-47-3	
Lead	**31.2**	mg/kg	2.3	0.97	2	11/18/15 13:23	11/20/15 14:11	7439-92-1	
Selenium	**2.2J**	mg/kg	2.3	0.87	1	11/18/15 13:23	11/19/15 20:27	7782-49-2	
Silver	**0.50J**	mg/kg	1.1	0.31	1	11/18/15 13:23	11/19/15 20:27	7440-22-4	B
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.0093J**	mg/kg	0.011	0.0032	1	11/17/15 09:06	11/18/15 12:10	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**22.3**	ug/kg	19.6	9.8	1	11/18/15 09:22	11/19/15 12:43	83-32-9	
Acenaphthylene	**120**	ug/kg	19.6	8.8	1	11/18/15 09:22	11/19/15 12:43	208-96-8	
Anthracene	**111**	ug/kg	19.6	10.2	1	11/18/15 09:22	11/19/15 12:43	120-12-7	
Benzo(a)anthracene	**118**	ug/kg	19.6	6.8	1	11/18/15 09:22	11/19/15 12:43	56-55-3	
Benzo(a)pyrene	**175**	ug/kg	19.6	7.0	1	11/18/15 09:22	11/19/15 12:43	50-32-8	
Benzo(b)fluoranthene	**138**	ug/kg	19.6	9.8	1	11/18/15 09:22	11/19/15 12:43	205-99-2	
Benzo(g,h,i)perylene	**153**	ug/kg	19.6	7.5	1	11/18/15 09:22	11/19/15 12:43	191-24-2	
Benzo(k)fluoranthene	**122**	ug/kg	19.6	10.9	1	11/18/15 09:22	11/19/15 12:43	207-08-9	
Chrysene	**207**	ug/kg	19.6	9.1	1	11/18/15 09:22	11/19/15 12:43	218-01-9	
Dibenz(a,h)anthracene	**61.7**	ug/kg	19.6	7.2	1	11/18/15 09:22	11/19/15 12:43	53-70-3	
Fluoranthene	**111**	ug/kg	19.6	9.8	1	11/18/15 09:22	11/19/15 12:43	206-44-0	
Fluorene	**57.1**	ug/kg	19.6	9.8	1	11/18/15 09:22	11/19/15 12:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**125**	ug/kg	19.6	7.4	1	11/18/15 09:22	11/19/15 12:43	193-39-5	
1-Methylnaphthalene	**223**	ug/kg	19.6	9.8	1	11/18/15 09:22	11/19/15 12:43	90-12-0	
2-Methylnaphthalene	**349**	ug/kg	19.6	9.8	1	11/18/15 09:22	11/19/15 12:43	91-57-6	
Naphthalene	**244**	ug/kg	19.6	9.8	1	11/18/15 09:22	11/19/15 12:43	91-20-3	
Phenanthrene	**352**	ug/kg	19.6	9.8	1	11/18/15 09:22	11/19/15 12:43	85-01-8	
Pyrene	**133**	ug/kg	19.6	9.8	1	11/18/15 09:22	11/19/15 12:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%	39-130		1	11/18/15 09:22	11/19/15 12:43	321-60-8	
Terphenyl-d14 (S)	58	%	37-130		1	11/18/15 09:22	11/19/15 12:43	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	630-20-6	W
1,1,1-Trichloroethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	71-55-6	W
1,1,2,2-Tetrachloroethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	79-34-5	W
1,1,2-Trichloroethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	79-00-5	W
1,1-Dichloroethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	75-34-3	W
1,1-Dichloroethene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	75-35-4	W
1,1-Dichloropropene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	563-58-6	W
1,2,3-Trichlorobenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	87-61-6	W
1,2,3-Trichloropropane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	96-18-4	W
1,2,4-Trichlorobenzene	**<51.7**	ug/kg	272	51.7	1	11/12/15 07:00	11/13/15 12:19	120-82-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-7 (2-4') **Lab ID: 40124487007** Collected: 11/09/15 11:00 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2,4-Trimethylbenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	95-63-6	W
1,2-Dibromo-3-chloropropane	**<99.2**	ug/kg	272	99.2	1	11/12/15 07:00	11/13/15 12:19	96-12-8	W
1,2-Dibromoethane (EDB)	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	106-93-4	W
1,2-Dichlorobenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	95-50-1	W
1,2-Dichloroethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	107-06-2	W
1,2-Dichloropropane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	78-87-5	W
1,3,5-Trimethylbenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	108-67-8	W
1,3-Dichlorobenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	541-73-1	W
1,3-Dichloropropane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	142-28-9	W
1,4-Dichlorobenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	106-46-7	W
2,2-Dichloropropane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	594-20-7	W
2-Chlorotoluene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	95-49-8	W
4-Chlorotoluene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	106-43-4	W
Benzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	71-43-2	W
Bromobenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	108-86-1	W
Bromochloromethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	74-97-5	W
Bromodichloromethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	75-27-4	W
Bromoform	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	75-25-2	W
Bromomethane	**<76.0**	ug/kg	272	76.0	1	11/12/15 07:00	11/13/15 12:19	74-83-9	W
Carbon tetrachloride	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	56-23-5	W
Chlorobenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	108-90-7	W
Chloroethane	**<72.8**	ug/kg	272	72.8	1	11/12/15 07:00	11/13/15 12:19	75-00-3	W
Chloroform	**<50.5**	ug/kg	272	50.5	1	11/12/15 07:00	11/13/15 12:19	67-66-3	W
Chloromethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	74-87-3	W
Dibromochloromethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	124-48-1	W
Dibromomethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	74-95-3	W
Dichlorodifluoromethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	75-71-8	W
Diisopropyl ether	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	108-20-3	W
Ethylbenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	100-41-4	W
Hexachloro-1,3-butadiene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	87-68-3	W
Isopropylbenzene (Cumene)	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	98-82-8	W
Methyl-tert-butyl ether	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	1634-04-4	W
Methylene Chloride	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	75-09-2	W
Naphthalene	**<43.5**	ug/kg	272	43.5	1	11/12/15 07:00	11/13/15 12:19	91-20-3	W
Styrene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	100-42-5	W
Tetrachloroethene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	127-18-4	W
Toluene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	108-88-3	W
Trichloroethene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	79-01-6	W
Trichlorofluoromethane	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	75-69-4	W
Vinyl chloride	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	75-01-4	W
Xylene (Total)	**<81.5**	ug/kg	196	81.5	1	11/12/15 07:00	11/13/15 12:19	1330-20-7	W
cis-1,2-Dichloroethene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	156-59-2	W
cis-1,3-Dichloropropene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	10061-01-5	W
n-Butylbenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	104-51-8	W
n-Propylbenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	103-65-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-7 (2-4') **Lab ID: 40124487007** Collected: 11/09/15 11:00 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
p-Isopropyltoluene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	99-87-6	W
sec-Butylbenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	135-98-8	W
tert-Butylbenzene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	98-06-6	W
trans-1,2-Dichloroethene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	156-60-5	W
trans-1,3-Dichloropropene	**<27.2**	ug/kg	65.2	27.2	1	11/12/15 07:00	11/13/15 12:19	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	49-157		1	11/12/15 07:00	11/13/15 12:19	1868-53-7	
Toluene-d8 (S)	87	%	61-148		1	11/12/15 07:00	11/13/15 12:19	2037-26-5	
4-Bromofluorobenzene (S)	72	%	53-134		1	11/12/15 07:00	11/13/15 12:19	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.0**	%	0.10	0.10	1		11/11/15 15:18		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-8 (2-4') **Lab ID: 40124487008** Collected: 11/09/15 11:15 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**16.5**	mg/kg	7.8	2.5	1	11/18/15 13:23	11/19/15 20:29	7440-38-2	
Barium	**173**	mg/kg	2.0	0.47	1	11/18/15 13:23	11/19/15 20:29	7440-39-3	
Cadmium	**<0.26**	mg/kg	2.0	0.26	1	11/18/15 13:23	11/19/15 20:29	7440-43-9	
Chromium	**5.8**	mg/kg	2.0	0.76	1	11/18/15 13:23	11/19/15 20:29	7440-47-3	
Lead	**18.1**	mg/kg	3.9	1.7	1	11/18/15 13:23	11/19/15 20:29	7439-92-1	
Selenium	**<3.0**	mg/kg	7.8	3.0	1	11/18/15 13:23	11/19/15 20:29	7782-49-2	
Silver	**1.5J**	mg/kg	3.9	1.1	1	11/18/15 13:23	11/19/15 20:29	7440-22-4	B
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.059**	mg/kg	0.036	0.011	1	11/17/15 09:06	11/18/15 12:17	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<33.4**	ug/kg	66.8	33.4	1	11/23/15 13:34	11/24/15 12:51	83-32-9	
Acenaphthylene	**<29.9**	ug/kg	66.8	29.9	1	11/23/15 13:34	11/24/15 12:51	208-96-8	
Anthracene	**<34.6**	ug/kg	66.8	34.6	1	11/23/15 13:34	11/24/15 12:51	120-12-7	
Benzo(a)anthracene	**<23.1**	ug/kg	66.8	23.1	1	11/23/15 13:34	11/24/15 12:51	56-55-3	
Benzo(a)pyrene	**<23.9**	ug/kg	66.8	23.9	1	11/23/15 13:34	11/24/15 12:51	50-32-8	
Benzo(b)fluoranthene	**<33.4**	ug/kg	66.8	33.4	1	11/23/15 13:34	11/24/15 12:51	205-99-2	
Benzo(g,h,i)perylene	**<25.4**	ug/kg	66.8	25.4	1	11/23/15 13:34	11/24/15 12:51	191-24-2	
Benzo(k)fluoranthene	**<36.9**	ug/kg	66.8	36.9	1	11/23/15 13:34	11/24/15 12:51	207-08-9	
Chrysene	**<30.9**	ug/kg	66.8	30.9	1	11/23/15 13:34	11/24/15 12:51	218-01-9	
Dibenz(a,h)anthracene	**<24.5**	ug/kg	66.8	24.5	1	11/23/15 13:34	11/24/15 12:51	53-70-3	
Fluoranthene	**<33.4**	ug/kg	66.8	33.4	1	11/23/15 13:34	11/24/15 12:51	206-44-0	
Fluorene	**<33.4**	ug/kg	66.8	33.4	1	11/23/15 13:34	11/24/15 12:51	86-73-7	
Indeno(1,2,3-cd)pyrene	**<25.4**	ug/kg	66.8	25.4	1	11/23/15 13:34	11/24/15 12:51	193-39-5	
1-Methylnaphthalene	**<33.4**	ug/kg	66.8	33.4	1	11/23/15 13:34	11/24/15 12:51	90-12-0	
2-Methylnaphthalene	**<33.4**	ug/kg	66.8	33.4	1	11/23/15 13:34	11/24/15 12:51	91-57-6	
Naphthalene	**<33.4**	ug/kg	66.8	33.4	1	11/23/15 13:34	11/24/15 12:51	91-20-3	
Phenanthrene	**<33.4**	ug/kg	66.8	33.4	1	11/23/15 13:34	11/24/15 12:51	85-01-8	
Pyrene	**<33.4**	ug/kg	66.8	33.4	1	11/23/15 13:34	11/24/15 12:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	39-130		1	11/23/15 13:34	11/24/15 12:51	321-60-8	
Terphenyl-d14 (S)	59	%	37-130		1	11/23/15 13:34	11/24/15 12:51	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	11/12/15 07:00	11/12/15 13:04	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-8 (2-4') **Lab ID: 40124487008** Collected: 11/09/15 11:15 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	11/12/15 07:00	11/12/15 13:04	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	11/12/15 07:00	11/12/15 13:04	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	11/12/15 07:00	11/12/15 13:04	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	11/12/15 07:00	11/12/15 13:04	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	75-09-2	W
Naphthalene	**187J**	ug/kg	1000	160	1	11/12/15 07:00	11/12/15 13:04	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	11/12/15 07:00	11/12/15 13:04	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	10061-01-5	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	103-65-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-8 (2-4') **Lab ID: 40124487008** Collected: 11/09/15 11:15 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:04	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	126	%	49-157		1	11/12/15 07:00	11/12/15 13:04	1868-53-7	
Toluene-d8 (S)	118	%	61-148		1	11/12/15 07:00	11/12/15 13:04	2037-26-5	
4-Bromofluorobenzene (S)	108	%	53-134		1	11/12/15 07:00	11/12/15 13:04	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**75.0**	%	0.10	0.10	1		11/11/15 15:18		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-9 (3-5') **Lab ID: 40124487009** Collected: 11/09/15 12:20 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**20.8J**	mg/kg	25.3	8.1	10	11/18/15 08:40	11/19/15 21:15	7440-38-2	
Barium	**59.1**	mg/kg	1.3	0.30	2	11/18/15 08:40	11/20/15 14:20	7440-39-3	M0
Cadmium	**2.9J**	mg/kg	6.3	0.84	10	11/18/15 08:40	11/19/15 21:15	7440-43-9	
Chromium	**8.9**	mg/kg	1.3	0.49	2	11/18/15 08:40	11/20/15 14:20	7440-47-3	
Lead	**54.3**	mg/kg	12.7	5.5	10	11/18/15 08:40	11/19/15 21:15	7439-92-1	
Selenium	**<2.0**	mg/kg	5.1	2.0	2	11/18/15 08:40	11/20/15 14:20	7782-49-2	D3
Silver	**1.5J**	mg/kg	2.5	0.70	2	11/18/15 08:40	11/20/15 14:20	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.028**	mg/kg	0.011	0.0034	1	11/17/15 09:06	11/18/15 12:20	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**108J**	ug/kg	169	84.6	8	11/18/15 09:22	11/19/15 16:48	83-32-9	
Acenaphthylene	**99.3J**	ug/kg	169	75.7	8	11/18/15 09:22	11/19/15 16:48	208-96-8	
Anthracene	**390**	ug/kg	169	87.8	8	11/18/15 09:22	11/19/15 16:48	120-12-7	
Benzo(a)anthracene	**542**	ug/kg	169	58.7	8	11/18/15 09:22	11/19/15 16:48	56-55-3	
Benzo(a)pyrene	**574**	ug/kg	169	60.5	8	11/18/15 09:22	11/19/15 16:48	50-32-8	
Benzo(b)fluoranthene	**373**	ug/kg	169	84.6	8	11/18/15 09:22	11/19/15 16:48	205-99-2	
Benzo(g,h,i)perylene	**305**	ug/kg	169	64.5	8	11/18/15 09:22	11/19/15 16:48	191-24-2	
Benzo(k)fluoranthene	**554**	ug/kg	169	93.7	8	11/18/15 09:22	11/19/15 16:48	207-08-9	
Chrysene	**776**	ug/kg	169	78.3	8	11/18/15 09:22	11/19/15 16:48	218-01-9	
Dibenz(a,h)anthracene	**89.6J**	ug/kg	169	62.1	8	11/18/15 09:22	11/19/15 16:48	53-70-3	
Fluoranthene	**1830**	ug/kg	169	84.6	8	11/18/15 09:22	11/19/15 16:48	206-44-0	
Fluorene	**190**	ug/kg	169	84.6	8	11/18/15 09:22	11/19/15 16:48	86-73-7	
Indeno(1,2,3-cd)pyrene	**254**	ug/kg	169	64.3	8	11/18/15 09:22	11/19/15 16:48	193-39-5	
1-Methylnaphthalene	**397**	ug/kg	169	84.6	8	11/18/15 09:22	11/19/15 16:48	90-12-0	
2-Methylnaphthalene	**427**	ug/kg	169	84.6	8	11/18/15 09:22	11/19/15 16:48	91-57-6	
Naphthalene	**500**	ug/kg	169	84.6	8	11/18/15 09:22	11/19/15 16:48	91-20-3	
Phenanthrene	**2930**	ug/kg	169	84.6	8	11/18/15 09:22	11/19/15 16:48	85-01-8	
Pyrene	**1990**	ug/kg	169	84.6	8	11/18/15 09:22	11/19/15 16:48	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46	%	39-130		8	11/18/15 09:22	11/19/15 16:48	321-60-8	
Terphenyl-d14 (S)	44	%	37-130		8	11/18/15 09:22	11/19/15 16:48	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	11/12/15 07:00	11/12/15 13:27	120-82-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-9 (3-5') **Lab ID: 40124487009** Collected: 11/09/15 12:20 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2,4-Trimethylbenzene	**52.7J**	ug/kg	76.2	31.7	1	11/12/15 07:00	11/12/15 13:27	95-63-6	
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	11/12/15 07:00	11/12/15 13:27	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	11/12/15 07:00	11/12/15 13:27	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	11/12/15 07:00	11/12/15 13:27	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	11/12/15 07:00	11/12/15 13:27	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	75-09-2	W
Naphthalene	**73.5J**	ug/kg	317	50.8	1	11/12/15 07:00	11/12/15 13:27	91-20-3	
Styrene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	11/12/15 07:00	11/12/15 13:27	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	10061-01-5	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	103-65-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-9 (3-5') **Lab ID: 40124487009** Collected: 11/09/15 12:20 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:27	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	111	%	49-157		1	11/12/15 07:00	11/12/15 13:27	1868-53-7	
Toluene-d8 (S)	105	%	61-148		1	11/12/15 07:00	11/12/15 13:27	2037-26-5	
4-Bromofluorobenzene (S)	96	%	53-134		1	11/12/15 07:00	11/12/15 13:27	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.2**	%	0.10	0.10	1		11/11/15 15:18		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-10 (2-4') **Lab ID: 40124487010** Collected: 11/09/15 12:40 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<27.1**	ug/kg	54.3	27.1	1	11/16/15 13:06	11/17/15 13:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<27.1**	ug/kg	54.3	27.1	1	11/16/15 13:06	11/17/15 13:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<27.1**	ug/kg	54.3	27.1	1	11/16/15 13:06	11/17/15 13:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<27.1**	ug/kg	54.3	27.1	1	11/16/15 13:06	11/17/15 13:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**<27.1**	ug/kg	54.3	27.1	1	11/16/15 13:06	11/17/15 13:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**<27.1**	ug/kg	54.3	27.1	1	11/16/15 13:06	11/17/15 13:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**<27.1**	ug/kg	54.3	27.1	1	11/16/15 13:06	11/17/15 13:21	11096-82-5	
PCB, Total	**<27.1**	ug/kg	54.3	27.1	1	11/16/15 13:06	11/17/15 13:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	46-130		1	11/16/15 13:06	11/17/15 13:21	877-09-8	
Decachlorobiphenyl (S)	89	%	39-130		1	11/16/15 13:06	11/17/15 13:21	2051-24-3	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**5.8**	mg/kg	1.8	0.73	1	11/15/15 07:56	11/18/15 08:38		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**<2.7**	mg/kg	5.4	2.7	1	11/12/15 06:40	11/13/15 00:50		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**5.3**	mg/kg	2.1	0.68	1	11/18/15 08:40	11/20/15 14:27	7440-38-2	B
Barium	**36.8**	mg/kg	0.53	0.13	1	11/18/15 08:40	11/20/15 14:27	7440-39-3	
Cadmium	**0.12J**	mg/kg	0.53	0.071	1	11/18/15 08:40	11/20/15 14:27	7440-43-9	B
Chromium	**7.0**	mg/kg	0.53	0.21	1	11/18/15 08:40	11/20/15 14:27	7440-47-3	
Lead	**10.2**	mg/kg	1.1	0.46	1	11/18/15 08:40	11/20/15 14:27	7439-92-1	
Selenium	**0.84J**	mg/kg	2.1	0.82	1	11/18/15 08:40	11/20/15 14:27	7782-49-2	
Silver	**0.46J**	mg/kg	1.1	0.30	1	11/18/15 08:40	11/20/15 14:27	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 11/12/15 11:01								
Arsenic	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 12:54	7440-38-2	
Barium	**<1.2**	mg/L	2.5	1.2	1	11/19/15 16:57	11/20/15 12:54	7440-39-3	
Cadmium	**<0.012**	mg/L	0.025	0.012	1	11/19/15 16:57	11/20/15 12:54	7440-43-9	
Chromium	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 12:54	7440-47-3	
Lead	**0.022J**	mg/L	0.038	0.015	1	11/19/15 16:57	11/20/15 12:54	7439-92-1	
Selenium	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 12:54	7782-49-2	
Silver	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 12:54	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Leachate Method/Date: EPA 1311; 11/12/15 11:03								
Mercury	**<0.00010**	mg/L	0.00020	0.00010	1	11/18/15 13:05	11/19/15 15:04	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.014**	mg/kg	0.0096	0.0029	1	11/17/15 09:06	11/18/15 12:22	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-10 (2-4') **Lab ID: 40124487010** Collected: 11/09/15 12:40 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<9.0**	ug/kg	18.1	9.0	1	11/18/15 09:22	11/19/15 12:09	83-32-9	
Acenaphthylene	**<8.1**	ug/kg	18.1	8.1	1	11/18/15 09:22	11/19/15 12:09	208-96-8	
Anthracene	**20.2**	ug/kg	18.1	9.4	1	11/18/15 09:22	11/19/15 12:09	120-12-7	
Benzo(a)anthracene	**29.5**	ug/kg	18.1	6.3	1	11/18/15 09:22	11/19/15 12:09	56-55-3	
Benzo(a)pyrene	**26.3**	ug/kg	18.1	6.5	1	11/18/15 09:22	11/19/15 12:09	50-32-8	
Benzo(b)fluoranthene	**37.4**	ug/kg	18.1	9.0	1	11/18/15 09:22	11/19/15 12:09	205-99-2	
Benzo(g,h,i)perylene	**21.5**	ug/kg	18.1	6.9	1	11/18/15 09:22	11/19/15 12:09	191-24-2	
Benzo(k)fluoranthene	**26.0**	ug/kg	18.1	10.0	1	11/18/15 09:22	11/19/15 12:09	207-08-9	
Chrysene	**40.5**	ug/kg	18.1	8.4	1	11/18/15 09:22	11/19/15 12:09	218-01-9	
Dibenz(a,h)anthracene	**<6.6**	ug/kg	18.1	6.6	1	11/18/15 09:22	11/19/15 12:09	53-70-3	
Fluoranthene	**78.5**	ug/kg	18.1	9.0	1	11/18/15 09:22	11/19/15 12:09	206-44-0	
Fluorene	**<9.0**	ug/kg	18.1	9.0	1	11/18/15 09:22	11/19/15 12:09	86-73-7	
Indeno(1,2,3-cd)pyrene	**17.5J**	ug/kg	18.1	6.9	1	11/18/15 09:22	11/19/15 12:09	193-39-5	
1-Methylnaphthalene	**14.5J**	ug/kg	18.1	9.0	1	11/18/15 09:22	11/19/15 12:09	90-12-0	
2-Methylnaphthalene	**19.8**	ug/kg	18.1	9.0	1	11/18/15 09:22	11/19/15 12:09	91-57-6	
Naphthalene	**26.9**	ug/kg	18.1	9.0	1	11/18/15 09:22	11/19/15 12:09	91-20-3	
Phenanthrene	**81.1**	ug/kg	18.1	9.0	1	11/18/15 09:22	11/19/15 12:09	85-01-8	
Pyrene	**61.2**	ug/kg	18.1	9.0	1	11/18/15 09:22	11/19/15 12:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	39-130		1	11/18/15 09:22	11/19/15 12:09	321-60-8	
Terphenyl-d14 (S)	60	%	37-130		1	11/18/15 09:22	11/19/15 12:09	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	11/12/15 07:00	11/12/15 13:50	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	11/12/15 07:00	11/12/15 13:50	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	11/12/15 07:00	11/12/15 13:50	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	11/12/15 07:00	11/12/15 13:50	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	541-73-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-10 (2-4') **Lab ID: 40124487010** Collected: 11/09/15 12:40 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	11/12/15 07:00	11/12/15 13:50	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	11/12/15 07:00	11/12/15 13:50	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 13:50	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	11/12/15 07:00	11/12/15 13:50	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	124	%	49-157		1	11/12/15 07:00	11/12/15 13:50	1868-53-7	
Toluene-d8 (S)	116	%	61-148		1	11/12/15 07:00	11/12/15 13:50	2037-26-5	
4-Bromofluorobenzene (S)	109	%	53-134		1	11/12/15 07:00	11/12/15 13:50	460-00-4	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 11/17/15 12:03								
Benzene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 20:29	71-43-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-10 (2-4') **Lab ID: 40124487010** Collected: 11/09/15 12:40 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 11/17/15 12:03								
2-Butanone (MEK)	**<29.8**	ug/L	200	29.8	10		11/18/15 20:29	78-93-3	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		11/18/15 20:29	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 20:29	108-90-7	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		11/18/15 20:29	67-66-3	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		11/18/15 20:29	107-06-2	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		11/18/15 20:29	75-35-4	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 20:29	127-18-4	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		11/18/15 20:29	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		11/18/15 20:29	75-01-4	
Surrogates									
Toluene-d8 (S)	103	%	70-130		10		11/18/15 20:29	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		10		11/18/15 20:29	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		10		11/18/15 20:29	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.9**	%	0.10	0.10	1		11/11/15 15:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-11 (3-5') **Lab ID: 40124487011** Collected: 11/09/15 13:00 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**7.6**	mg/kg	2.2	0.69	1	11/18/15 08:40	11/19/15 21:25	7440-38-2	B
Barium	**31.6**	mg/kg	0.54	0.13	1	11/18/15 08:40	11/19/15 21:25	7440-39-3	
Cadmium	**<0.072**	mg/kg	0.54	0.072	1	11/18/15 08:40	11/19/15 21:25	7440-43-9	
Chromium	**8.8**	mg/kg	0.54	0.21	1	11/18/15 08:40	11/19/15 21:25	7440-47-3	
Lead	**5.2**	mg/kg	1.1	0.47	1	11/18/15 08:40	11/19/15 21:25	7439-92-1	
Selenium	**<0.84**	mg/kg	2.2	0.84	1	11/18/15 08:40	11/19/15 21:25	7782-49-2	
Silver	**0.67J**	mg/kg	1.1	0.30	1	11/18/15 08:40	11/19/15 21:25	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.0084J**	mg/kg	0.011	0.0033	1	11/17/15 09:06	11/18/15 12:24	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<48.3**	ug/kg	96.6	48.3	5	11/18/15 09:22	11/24/15 12:34	83-32-9	
Acenaphthylene	**61.6J**	ug/kg	96.6	43.2	5	11/18/15 09:22	11/24/15 12:34	208-96-8	
Anthracene	**<50.1**	ug/kg	96.6	50.1	5	11/18/15 09:22	11/24/15 12:34	120-12-7	
Benzo(a)anthracene	**<33.5**	ug/kg	96.6	33.5	5	11/18/15 09:22	11/24/15 12:34	56-55-3	
Benzo(a)pyrene	**<34.5**	ug/kg	96.6	34.5	5	11/18/15 09:22	11/24/15 12:34	50-32-8	
Benzo(b)fluoranthene	**<48.3**	ug/kg	96.6	48.3	5	11/18/15 09:22	11/24/15 12:34	205-99-2	
Benzo(g,h,i)perylene	**<36.8**	ug/kg	96.6	36.8	5	11/18/15 09:22	11/24/15 12:34	191-24-2	
Benzo(k)fluoranthene	**<53.5**	ug/kg	96.6	53.5	5	11/18/15 09:22	11/24/15 12:34	207-08-9	
Chrysene	**<44.7**	ug/kg	96.6	44.7	5	11/18/15 09:22	11/24/15 12:34	218-01-9	
Dibenz(a,h)anthracene	**<35.4**	ug/kg	96.6	35.4	5	11/18/15 09:22	11/24/15 12:34	53-70-3	
Fluoranthene	**<48.3**	ug/kg	96.6	48.3	5	11/18/15 09:22	11/24/15 12:34	206-44-0	
Fluorene	**<48.3**	ug/kg	96.6	48.3	5	11/18/15 09:22	11/24/15 12:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**<36.7**	ug/kg	96.6	36.7	5	11/18/15 09:22	11/24/15 12:34	193-39-5	
1-Methylnaphthalene	**229**	ug/kg	96.6	48.3	5	11/18/15 09:22	11/24/15 12:34	90-12-0	
2-Methylnaphthalene	**207**	ug/kg	96.6	48.3	5	11/18/15 09:22	11/24/15 12:34	91-57-6	
Naphthalene	**95.3J**	ug/kg	96.6	48.3	5	11/18/15 09:22	11/24/15 12:34	91-20-3	D3
Phenanthrene	**<48.3**	ug/kg	96.6	48.3	5	11/18/15 09:22	11/24/15 12:34	85-01-8	
Pyrene	**<48.3**	ug/kg	96.6	48.3	5	11/18/15 09:22	11/24/15 12:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	41	%	39-130		5	11/18/15 09:22	11/24/15 12:34	321-60-8	
Terphenyl-d14 (S)	37	%	37-130		5	11/18/15 09:22	11/24/15 12:34	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	563-58-6	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	87-61-6	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	96-18-4	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	11/12/15 07:00	11/12/15 14:12	120-82-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-11 (3-5') **Lab ID: 40124487011** Collected: 11/09/15 13:00 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	95-63-6	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	11/12/15 07:00	11/12/15 14:12	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	11/12/15 07:00	11/12/15 14:12	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	11/12/15 07:00	11/12/15 14:12	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	11/12/15 07:00	11/12/15 14:12	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	74-87-3	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	1634-04-4	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	75-09-2	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	11/12/15 07:00	11/12/15 14:12	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	100-42-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	11/12/15 07:00	11/12/15 14:12	1330-20-7	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	156-59-2	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	10061-01-5	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	103-65-1	W

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-11 (3-5') **Lab ID: 40124487011** Collected: 11/09/15 13:00 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:12	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	122	%	49-157		1	11/12/15 07:00	11/12/15 14:12	1868-53-7	
Toluene-d8 (S)	112	%	61-148		1	11/12/15 07:00	11/12/15 14:12	2037-26-5	
4-Bromofluorobenzene (S)	117	%	53-134		1	11/12/15 07:00	11/12/15 14:12	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.8**	%	0.10	0.10	1		11/11/15 15:19		

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-12 (3-5') **Lab ID: 40124487012** Collected: 11/09/15 13:45 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<30.1**	ug/kg	60.2	30.1	1	11/17/15 13:47	11/18/15 16:07	12674-11-2	
PCB-1221 (Aroclor 1221)	**<30.1**	ug/kg	60.2	30.1	1	11/17/15 13:47	11/18/15 16:07	11104-28-2	
PCB-1232 (Aroclor 1232)	**<30.1**	ug/kg	60.2	30.1	1	11/17/15 13:47	11/18/15 16:07	11141-16-5	
PCB-1242 (Aroclor 1242)	**<30.1**	ug/kg	60.2	30.1	1	11/17/15 13:47	11/18/15 16:07	53469-21-9	
PCB-1248 (Aroclor 1248)	**<30.1**	ug/kg	60.2	30.1	1	11/17/15 13:47	11/18/15 16:07	12672-29-6	
PCB-1254 (Aroclor 1254)	**<30.1**	ug/kg	60.2	30.1	1	11/17/15 13:47	11/18/15 16:07	11097-69-1	
PCB-1260 (Aroclor 1260)	**<30.1**	ug/kg	60.2	30.1	1	11/17/15 13:47	11/18/15 16:07	11096-82-5	
PCB, Total	**<30.1**	ug/kg	60.2	30.1	1	11/17/15 13:47	11/18/15 16:07	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	46-130		1	11/17/15 13:47	11/18/15 16:07	877-09-8	
Decachlorobiphenyl (S)	84	%	39-130		1	11/17/15 13:47	11/18/15 16:07	2051-24-3	
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**11.5**	mg/kg	2.8	1.1	1	11/15/15 07:56	11/18/15 08:44		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**7.0**	mg/kg	6.0	3.0	1	11/12/15 06:40	11/13/15 01:15		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**16.9J**	mg/kg	20.6	6.6	10	11/18/15 08:40	11/19/15 21:28	7440-38-2	
Barium	**65.3**	mg/kg	0.51	0.12	1	11/18/15 08:40	11/20/15 14:30	7440-39-3	
Cadmium	**<0.68**	mg/kg	5.1	0.68	10	11/18/15 08:40	11/19/15 21:28	7440-43-9	
Chromium	**13.1**	mg/kg	0.51	0.20	1	11/18/15 08:40	11/20/15 14:30	7440-47-3	
Lead	**61.8**	mg/kg	10.3	4.4	10	11/18/15 08:40	11/19/15 21:28	7439-92-1	
Selenium	**2.4**	mg/kg	2.1	0.79	1	11/18/15 08:40	11/20/15 14:30	7782-49-2	
Silver	**0.89J**	mg/kg	1.0	0.29	1	11/18/15 08:40	11/20/15 14:30	7440-22-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 11/12/15 11:01								
Arsenic	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 13:01	7440-38-2	
Barium	**<1.2**	mg/L	2.5	1.2	1	11/19/15 16:57	11/20/15 13:01	7440-39-3	
Cadmium	**<0.012**	mg/L	0.025	0.012	1	11/19/15 16:57	11/20/15 13:01	7440-43-9	
Chromium	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 13:01	7440-47-3	
Lead	**0.026J**	mg/L	0.038	0.015	1	11/19/15 16:57	11/20/15 13:01	7439-92-1	
Selenium	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 13:01	7782-49-2	
Silver	**<0.12**	mg/L	0.25	0.12	1	11/19/15 16:57	11/20/15 13:01	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Leachate Method/Date: EPA 1311; 11/12/15 11:03								
Mercury	**<0.00010**	mg/L	0.00020	0.00010	1	11/18/15 13:05	11/19/15 15:07	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.035**	mg/kg	0.011	0.0034	1	11/17/15 09:06	11/18/15 12:27	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-12 (3-5') **Lab ID: 40124487012** Collected: 11/09/15 13:45 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<10.0**	ug/kg	20.1	10.0	1	11/18/15 09:22	11/19/15 12:26	83-32-9	
Acenaphthylene	**<9.0**	ug/kg	20.1	9.0	1	11/18/15 09:22	11/19/15 12:26	208-96-8	
Anthracene	**<10.4**	ug/kg	20.1	10.4	1	11/18/15 09:22	11/19/15 12:26	120-12-7	
Benzo(a)anthracene	**14.5J**	ug/kg	20.1	7.0	1	11/18/15 09:22	11/19/15 12:26	56-55-3	
Benzo(a)pyrene	**9.1J**	ug/kg	20.1	7.2	1	11/18/15 09:22	11/19/15 12:26	50-32-8	
Benzo(b)fluoranthene	**<10.0**	ug/kg	20.1	10.0	1	11/18/15 09:22	11/19/15 12:26	205-99-2	
Benzo(g,h,i)perylene	**<7.6**	ug/kg	20.1	7.6	1	11/18/15 09:22	11/19/15 12:26	191-24-2	
Benzo(k)fluoranthene	**<11.1**	ug/kg	20.1	11.1	1	11/18/15 09:22	11/19/15 12:26	207-08-9	
Chrysene	**15.7J**	ug/kg	20.1	9.3	1	11/18/15 09:22	11/19/15 12:26	218-01-9	
Dibenz(a,h)anthracene	**<7.4**	ug/kg	20.1	7.4	1	11/18/15 09:22	11/19/15 12:26	53-70-3	
Fluoranthene	**27.2**	ug/kg	20.1	10.0	1	11/18/15 09:22	11/19/15 12:26	206-44-0	
Fluorene	**<10.0**	ug/kg	20.1	10.0	1	11/18/15 09:22	11/19/15 12:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**<7.6**	ug/kg	20.1	7.6	1	11/18/15 09:22	11/19/15 12:26	193-39-5	
1-Methylnaphthalene	**112**	ug/kg	20.1	10.0	1	11/18/15 09:22	11/19/15 12:26	90-12-0	
2-Methylnaphthalene	**147**	ug/kg	20.1	10.0	1	11/18/15 09:22	11/19/15 12:26	91-57-6	
Naphthalene	**68.3**	ug/kg	20.1	10.0	1	11/18/15 09:22	11/19/15 12:26	91-20-3	
Phenanthrene	**92.8**	ug/kg	20.1	10.0	1	11/18/15 09:22	11/19/15 12:26	85-01-8	
Pyrene	**23.2**	ug/kg	20.1	10.0	1	11/18/15 09:22	11/19/15 12:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	39-130		1	11/18/15 09:22	11/19/15 12:26	321-60-8	
Terphenyl-d14 (S)	44	%	37-130		1	11/18/15 09:22	11/19/15 12:26	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**38.2J**	ug/kg	72.3	30.1	1	11/12/15 07:00	11/12/15 14:35	71-43-2	
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	11/12/15 07:00	11/12/15 14:35	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	104-51-8	W
sec-Butylbenzene	**38.6J**	ug/kg	72.3	30.1	1	11/12/15 07:00	11/12/15 14:35	135-98-8	
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	11/12/15 07:00	11/12/15 14:35	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	11/12/15 07:00	11/12/15 14:35	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	11/12/15 07:00	11/12/15 14:35	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	541-73-1	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-12 (3-5') **Lab ID: 40124487012** Collected: 11/09/15 13:45 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	108-20-3	W
Ethylbenzene	**51.5J**	ug/kg	72.3	30.1	1	11/12/15 07:00	11/12/15 14:35	100-41-4	
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	1634-04-4	W
Naphthalene	**191J**	ug/kg	301	48.2	1	11/12/15 07:00	11/12/15 14:35	91-20-3	
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	127-18-4	W
Toluene	**160**	ug/kg	72.3	30.1	1	11/12/15 07:00	11/12/15 14:35	108-88-3	
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	11/12/15 07:00	11/12/15 14:35	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	96-18-4	W
1,2,4-Trimethylbenzene	**73.8**	ug/kg	72.3	30.1	1	11/12/15 07:00	11/12/15 14:35	95-63-6	
1,3,5-Trimethylbenzene	**60.3J**	ug/kg	72.3	30.1	1	11/12/15 07:00	11/12/15 14:35	108-67-8	
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	11/12/15 07:00	11/12/15 14:35	75-01-4	W
Xylene (Total)	**322**	ug/kg	217	90.3	1	11/12/15 07:00	11/12/15 14:35	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	131	%	49-157		1	11/12/15 07:00	11/12/15 14:35	1868-53-7	
Toluene-d8 (S)	117	%	61-148		1	11/12/15 07:00	11/12/15 14:35	2037-26-5	
4-Bromofluorobenzene (S)	110	%	53-134		1	11/12/15 07:00	11/12/15 14:35	460-00-4	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 11/17/15 12:03								
Benzene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 20:51	71-43-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Sample: MGE-12 (3-5') **Lab ID: 40124487012** Collected: 11/09/15 13:45 Received: 11/11/15 08:35 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 11/17/15 12:03								
2-Butanone (MEK)	**<29.8**	ug/L	200	29.8	10		11/18/15 20:51	78-93-3	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		11/18/15 20:51	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 20:51	108-90-7	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		11/18/15 20:51	67-66-3	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		11/18/15 20:51	107-06-2	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		11/18/15 20:51	75-35-4	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		11/18/15 20:51	127-18-4	
Trichloroethene	**<3.3**	ug/L	10.0	3.3	10		11/18/15 20:51	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		11/18/15 20:51	75-01-4	
Surrogates									
Toluene-d8 (S)	103	%	70-130		10		11/18/15 20:51	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		10		11/18/15 20:51	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		10		11/18/15 20:51	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.0**	%	0.10	0.10	1		11/11/15 15:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: GCV/15345 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

METHOD BLANK: 1256997 Matrix: Solid
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	<1.6	5.0	11/12/15 14:08	
a,a,a-Trifluorotoluene (S)	%	102	80-120	11/12/15 14:08	

LABORATORY CONTROL SAMPLE & LCSD: 1256998 1256999

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	10	10.2	10.6	102	106	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				103	103	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: MERP/5390 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

METHOD BLANK: 1261512 Matrix: Water
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.00010	0.00020	11/19/15 14:46	

METHOD BLANK: 1257394 Matrix: Water
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.00010	0.00020	11/19/15 15:14	

LABORATORY CONTROL SAMPLE: 1261513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.005	0.0049	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1261514 1261515

Parameter	Units	40124487001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	<0.00010	.005	.005	0.0056	0.0059	112	118	85-115	5	20	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: MERP/5366 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 40124487001, 40124487002, 40124487003, 40124487004, 40124487005, 40124487006, 40124487007, 40124487008, 40124487009, 40124487010, 40124487011, 40124487012

METHOD BLANK: 1258817 Matrix: Solid
Associated Lab Samples: 40124487001, 40124487002, 40124487003, 40124487004, 40124487005, 40124487006, 40124487007, 40124487008, 40124487009, 40124487010, 40124487011, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.0029	0.0097	11/18/15 11:17	

LABORATORY CONTROL SAMPLE: 1258818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.17	0.15	87	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1258819 1258820

Parameter	Units	40124373001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.0054J	.17	.18	0.16	0.17	91	93	85-115	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: MPRP/12932 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40124487009, 40124487010, 40124487011, 40124487012

METHOD BLANK: 1261012 Matrix: Solid
Associated Lab Samples: 40124487009, 40124487010, 40124487011, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	1.1J	2.0	11/19/15 21:11	
Barium	mg/kg	0.38J	0.50	11/19/15 21:11	
Cadmium	mg/kg	0.076J	0.50	11/19/15 21:11	
Chromium	mg/kg	<0.19	0.50	11/19/15 21:11	
Lead	mg/kg	<0.43	1.0	11/19/15 21:11	
Selenium	mg/kg	<0.77	2.0	11/19/15 21:11	
Silver	mg/kg	<0.28	1.0	11/19/15 21:11	

LABORATORY CONTROL SAMPLE: 1261013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	48.0	96	80-120	
Barium	mg/kg	50	50.9	102	80-120	
Cadmium	mg/kg	50	50.2	100	80-120	
Chromium	mg/kg	50	50.6	101	80-120	
Lead	mg/kg	50	50.0	100	80-120	
Selenium	mg/kg	50	48.6	97	80-120	
Silver	mg/kg	25	24.6	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1261014 1261015

Parameter	Units	40124487009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	20.8J	63.1	63.3	87.4	90.6	106	110	75-125	4	20	
Barium	mg/kg	59.1	63.1	63.3	157	144	156	133	75-125	9	20	M0
Cadmium	mg/kg	2.9J	63.1	63.3	61.0	64.5	92	97	75-125	6	20	
Chromium	mg/kg	8.9	63.1	63.3	71.6	76.2	99	106	75-125	6	20	
Lead	mg/kg	54.3	63.1	63.3	105	121	81	106	75-125	14	20	
Selenium	mg/kg	<2.0	63.1	63.3	64.0	64.9	100	101	75-125	1	20	
Silver	mg/kg	1.5J	31.6	31.7	32.3	32.4	97	97	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: MPRP/12933 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40124487001, 40124487002, 40124487003, 40124487004, 40124487005, 40124487006, 40124487007, 40124487008

METHOD BLANK: 1261020 Matrix: Solid
Associated Lab Samples: 40124487001, 40124487002, 40124487003, 40124487004, 40124487005, 40124487006, 40124487007, 40124487008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.64	2.0	11/19/15 19:57	
Barium	mg/kg	0.42J	0.50	11/19/15 19:57	
Cadmium	mg/kg	0.088J	0.50	11/19/15 19:57	
Chromium	mg/kg	<0.19	0.50	11/19/15 19:57	
Lead	mg/kg	<0.43	1.0	11/19/15 19:57	
Selenium	mg/kg	<0.77	2.0	11/19/15 19:57	
Silver	mg/kg	0.45J	1.0	11/19/15 19:57	

LABORATORY CONTROL SAMPLE: 1261021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	46.7	93	80-120	
Barium	mg/kg	50	49.3	99	80-120	
Cadmium	mg/kg	50	48.8	98	80-120	
Chromium	mg/kg	50	49.0	98	80-120	
Lead	mg/kg	50	48.7	97	80-120	
Selenium	mg/kg	50	47.6	95	80-120	
Silver	mg/kg	25	23.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1261022 1261023

Parameter	Units	40124487001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	9.3	138	137	136	135	92	92	75-125	0	20	
Barium	mg/kg	142	138	137	253	265	81	90	75-125	5	20	
Cadmium	mg/kg	0.26J	138	137	132	132	95	96	75-125	0	20	
Chromium	mg/kg	12.4	138	137	142	145	94	97	75-125	2	20	
Lead	mg/kg	8.7	138	137	137	138	93	94	75-125	1	20	
Selenium	mg/kg	5.1J	138	137	129	134	90	94	75-125	4	20	
Silver	mg/kg	1.4J	68.9	68.6	64.5	64.2	92	91	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: MPRP/12949 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

METHOD BLANK: 1262804 Matrix: Water
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.025	0.050	11/20/15 12:35	
Barium	mg/L	<0.25	0.50	11/20/15 12:35	
Cadmium	mg/L	<0.0025	0.0050	11/20/15 12:35	
Chromium	mg/L	<0.025	0.050	11/20/15 12:35	
Lead	mg/L	<0.0030	0.0075	11/20/15 12:35	
Selenium	mg/L	<0.025	0.050	11/20/15 12:35	
Silver	mg/L	<0.025	0.050	11/20/15 12:35	

METHOD BLANK: 1257379 Matrix: Solid
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.12	0.25	11/20/15 13:04	
Barium	mg/L	<1.2	2.5	11/20/15 13:04	
Cadmium	mg/L	<0.012	0.025	11/20/15 13:04	
Chromium	mg/L	<0.12	0.25	11/20/15 13:04	
Lead	mg/L	<0.015	0.038	11/20/15 13:04	
Selenium	mg/L	<0.12	0.25	11/20/15 13:04	
Silver	mg/L	<0.12	0.25	11/20/15 13:04	

METHOD BLANK: 1259712 Matrix: Solid
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.12	0.25	11/20/15 13:16	
Barium	mg/L	<1.2	2.5	11/20/15 13:16	
Cadmium	mg/L	<0.012	0.025	11/20/15 13:16	
Chromium	mg/L	<0.12	0.25	11/20/15 13:16	
Lead	mg/L	<0.015	0.038	11/20/15 13:16	
Selenium	mg/L	<0.12	0.25	11/20/15 13:16	
Silver	mg/L	<0.12	0.25	11/20/15 13:16	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

METHOD BLANK: 1259713 Matrix: Solid
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.025	0.050	11/20/15 13:24	
Barium	mg/L	<0.25	0.50	11/20/15 13:24	
Cadmium	mg/L	<0.0025	0.0050	11/20/15 13:24	
Chromium	mg/L	<0.025	0.050	11/20/15 13:24	
Lead	mg/L	<0.0030	0.0075	11/20/15 13:24	
Selenium	mg/L	<0.025	0.050	11/20/15 13:24	
Silver	mg/L	<0.025	0.050	11/20/15 13:24	

LABORATORY CONTROL SAMPLE: 1262805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.50	100	80-120	
Barium	mg/L	.5	0.52	103	80-120	
Cadmium	mg/L	.5	0.51	103	80-120	
Chromium	mg/L	.5	0.51	102	80-120	
Lead	mg/L	.5	0.51	101	80-120	
Selenium	mg/L	.5	0.49	98	80-120	
Silver	mg/L	.25	0.26	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1262806 1262807

Parameter	Units	40124487001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	<0.12	2.5	2.5	2.4	2.3	94	91	75-125	3	20	
Barium	mg/L	<1.2	2.5	2.5	3.6	3.5	95	92	75-125	2	20	
Cadmium	mg/L	<0.012	2.5	2.5	2.5	2.4	99	96	75-125	3	20	
Chromium	mg/L	<0.12	2.5	2.5	2.4	2.4	98	95	75-125	3	20	
Lead	mg/L	0.036J	2.5	2.5	2.4	2.4	96	93	75-125	3	20	
Selenium	mg/L	<0.12	2.5	2.5	2.4	2.3	96	94	75-125	2	20	
Silver	mg/L	<0.12	1.2	1.2	1.2	1.2	96	93	75-125	3	20	

MATRIX SPIKE SAMPLE: 1262808

Parameter	Units	40124608001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.13J	2.5	2.5	93	75-125	
Barium	mg/L	<1.2	2.5	2.8	95	75-125	
Cadmium	mg/L	0.013J	2.5	2.4	96	75-125	
Chromium	mg/L	0.37	2.5	2.7	94	75-125	
Lead	mg/L	0.037J	2.5	2.4	93	75-125	
Selenium	mg/L	0.36	2.5	2.8	96	75-125	
Silver	mg/L	<0.12	1.2	1.2	95	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: MSV/31243 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40124487001, 40124487002, 40124487003, 40124487004, 40124487005, 40124487006, 40124487007, 40124487008, 40124487009, 40124487010, 40124487011, 40124487012

METHOD BLANK: 1257750 Matrix: Solid
Associated Lab Samples: 40124487001, 40124487002, 40124487003, 40124487004, 40124487005, 40124487006, 40124487007, 40124487008, 40124487009, 40124487010, 40124487011, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	11/12/15 08:13	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	11/12/15 08:13	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	11/12/15 08:13	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	11/12/15 08:13	
1,1-Dichloroethane	ug/kg	<17.6	50.0	11/12/15 08:13	
1,1-Dichloroethene	ug/kg	<17.6	50.0	11/12/15 08:13	
1,1-Dichloropropene	ug/kg	<14.0	50.0	11/12/15 08:13	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	11/12/15 08:13	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	11/12/15 08:13	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	11/12/15 08:13	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	11/12/15 08:13	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	11/12/15 08:13	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	11/12/15 08:13	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	11/12/15 08:13	
1,2-Dichloroethane	ug/kg	<15.0	50.0	11/12/15 08:13	
1,2-Dichloropropane	ug/kg	<16.8	50.0	11/12/15 08:13	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	11/12/15 08:13	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	11/12/15 08:13	
1,3-Dichloropropane	ug/kg	<12.0	50.0	11/12/15 08:13	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	11/12/15 08:13	
2,2-Dichloropropane	ug/kg	<12.6	50.0	11/12/15 08:13	
2-Chlorotoluene	ug/kg	<15.8	50.0	11/12/15 08:13	
4-Chlorotoluene	ug/kg	<13.0	50.0	11/12/15 08:13	
Benzene	ug/kg	<9.2	20.0	11/12/15 08:13	
Bromobenzene	ug/kg	<20.6	50.0	11/12/15 08:13	
Bromochloromethane	ug/kg	<21.4	50.0	11/12/15 08:13	
Bromodichloromethane	ug/kg	<9.8	50.0	11/12/15 08:13	
Bromoform	ug/kg	<19.8	50.0	11/12/15 08:13	
Bromomethane	ug/kg	<69.9	250	11/12/15 08:13	
Carbon tetrachloride	ug/kg	<12.1	50.0	11/12/15 08:13	
Chlorobenzene	ug/kg	<14.8	50.0	11/12/15 08:13	
Chloroethane	ug/kg	<67.0	250	11/12/15 08:13	
Chloroform	ug/kg	<46.4	250	11/12/15 08:13	
Chloromethane	ug/kg	<20.4	50.0	11/12/15 08:13	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	11/12/15 08:13	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	11/12/15 08:13	
Dibromochloromethane	ug/kg	<17.9	50.0	11/12/15 08:13	
Dibromomethane	ug/kg	<19.3	50.0	11/12/15 08:13	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	11/12/15 08:13	
Diisopropyl ether	ug/kg	<17.7	50.0	11/12/15 08:13	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

METHOD BLANK: 1257750 Matrix: Solid

Associated Lab Samples: 40124487001, 40124487002, 40124487003, 40124487004, 40124487005, 40124487006, 40124487007, 40124487008, 40124487009, 40124487010, 40124487011, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<12.4	50.0	11/12/15 08:13	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	11/12/15 08:13	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	11/12/15 08:13	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	11/12/15 08:13	
Methylene Chloride	ug/kg	<16.2	50.0	11/12/15 08:13	
n-Butylbenzene	ug/kg	11.0J	50.0	11/12/15 08:13	
n-Propylbenzene	ug/kg	<11.6	50.0	11/12/15 08:13	
Naphthalene	ug/kg	<40.0	250	11/12/15 08:13	
p-Isopropyltoluene	ug/kg	<12.0	50.0	11/12/15 08:13	
sec-Butylbenzene	ug/kg	<11.9	50.0	11/12/15 08:13	
Styrene	ug/kg	<9.0	50.0	11/12/15 08:13	
tert-Butylbenzene	ug/kg	<9.5	50.0	11/12/15 08:13	
Tetrachloroethene	ug/kg	<12.9	50.0	11/12/15 08:13	
Toluene	ug/kg	<11.2	50.0	11/12/15 08:13	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	11/12/15 08:13	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	11/12/15 08:13	
Trichloroethene	ug/kg	<23.6	50.0	11/12/15 08:13	
Trichlorofluoromethane	ug/kg	<24.7	50.0	11/12/15 08:13	
Vinyl chloride	ug/kg	<21.1	50.0	11/12/15 08:13	
Xylene (Total)	ug/kg	<48.4	150	11/12/15 08:13	
4-Bromofluorobenzene (S)	%	102	53-134	11/12/15 08:13	
Dibromofluoromethane (S)	%	115	49-157	11/12/15 08:13	
Toluene-d8 (S)	%	101	61-148	11/12/15 08:13	

LABORATORY CONTROL SAMPLE: 1257751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2710	109	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2490	100	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2370	95	70-130	
1,1-Dichloroethane	ug/kg	2500	2730	109	70-130	
1,1-Dichloroethene	ug/kg	2500	3110	125	70-132	
1,2,4-Trichlorobenzene	ug/kg	2500	2510	100	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2230	89	45-150	
1,2-Dibromoethane (EDB)	ug/kg	2500	2430	97	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2560	102	70-130	
1,2-Dichloroethane	ug/kg	2500	3000	120	70-134	
1,2-Dichloropropane	ug/kg	2500	2730	109	70-130	
1,3-Dichlorobenzene	ug/kg	2500	2610	104	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2630	105	70-130	
Benzene	ug/kg	2500	2510	100	70-130	
Bromodichloromethane	ug/kg	2500	2890	115	70-130	
Bromoform	ug/kg	2500	2260	90	48-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

LABORATORY CONTROL SAMPLE: 1257751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	3110	124	70-169	
Carbon tetrachloride	ug/kg	2500	2740	109	67-130	
Chlorobenzene	ug/kg	2500	2590	104	70-130	
Chloroethane	ug/kg	2500	2950	118	70-191	
Chloroform	ug/kg	2500	2950	118	70-130	
Chloromethane	ug/kg	2500	2500	100	52-132	
cis-1,2-Dichloroethene	ug/kg	2500	2540	102	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2570	103	70-130	
Dibromochloromethane	ug/kg	2500	2320	93	65-130	
Dichlorodifluoromethane	ug/kg	2500	2630	105	12-150	
Ethylbenzene	ug/kg	2500	2500	100	70-130	
Isopropylbenzene (Cumene)	ug/kg	2500	2470	99	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2320	93	70-130	
Methylene Chloride	ug/kg	2500	3160	127	70-131	
Styrene	ug/kg	2500	2460	99	70-130	
Tetrachloroethene	ug/kg	2500	2530	101	70-130	
Toluene	ug/kg	2500	2430	97	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2600	104	69-130	
trans-1,3-Dichloropropene	ug/kg	2500	2360	94	65-130	
Trichloroethene	ug/kg	2500	2890	115	70-130	
Trichlorofluoromethane	ug/kg	2500	3260	130	50-150	
Vinyl chloride	ug/kg	2500	2830	113	67-134	
Xylene (Total)	ug/kg	7500	7220	96	70-130	
4-Bromofluorobenzene (S)	%			106	53-134	
Dibromofluoromethane (S)	%			119	49-157	
Toluene-d8 (S)	%			105	61-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1257752 1257753

Parameter	Units	40124487002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1790	1790	1680	1630	94	91	63-130	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1790	1790	1680	1720	94	96	57-136	2	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1790	1790	1640	1640	92	92	70-130	0	20	
1,1-Dichloroethane	ug/kg	<25.0	1790	1790	1840	1930	103	108	62-131	5	23	
1,1-Dichloroethene	ug/kg	<25.0	1790	1790	1770	1730	99	96	42-137	3	20	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1790	1790	1850	1900	101	104	59-137	3	21	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1790	1790	1500	1600	84	89	33-150	6	25	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1790	1790	1720	1600	96	89	70-130	7	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1790	1790	1870	1850	105	103	70-130	1	20	
1,2-Dichloroethane	ug/kg	<25.0	1790	1790	2110	2090	118	117	68-134	1	20	
1,2-Dichloropropane	ug/kg	<25.0	1790	1790	1870	1840	105	103	70-130	1	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1790	1790	1890	1900	106	106	70-130	0	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1790	1790	1910	1930	107	108	69-130	1	20	

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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1257752 1257753

Parameter	Units	40124487002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1790	1790	1650	1670	92	94	56-131	1	20	
Bromodichloromethane	ug/kg	<25.0	1790	1790	1910	1920	107	107	64-130	1	20	
Bromoform	ug/kg	<25.0	1790	1790	1590	1440	89	80	48-130	10	20	
Bromomethane	ug/kg	<69.9	1790	1790	2090	2040	117	114	18-169	2	23	
Carbon tetrachloride	ug/kg	<25.0	1790	1790	1590	1500	89	84	59-130	6	20	
Chlorobenzene	ug/kg	<25.0	1790	1790	1820	1880	102	105	70-130	3	20	
Chloroethane	ug/kg	<67.0	1790	1790	1610	1700	90	95	10-191	6	20	
Chloroform	ug/kg	<46.4	1790	1790	1990	2040	111	114	65-130	3	20	
Chloromethane	ug/kg	<25.0	1790	1790	1620	1650	90	92	36-132	2	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1790	1790	1780	1720	99	96	59-136	3	24	
cis-1,3-Dichloropropene	ug/kg	<25.0	1790	1790	1750	1730	98	97	60-130	1	20	
Dibromochloromethane	ug/kg	<25.0	1790	1790	1600	1580	90	89	59-130	1	20	
Dichlorodifluoromethane	ug/kg	<25.0	1790	1790	1340	1120	75	63	10-150	18	27	
Ethylbenzene	ug/kg	<25.0	1790	1790	1760	1770	98	99	64-130	1	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1790	1790	1640	1640	91	92	69-138	0	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1790	1790	1590	1490	89	83	52-134	7	20	
Methylene Chloride	ug/kg	<25.0	1790	1790	2000	2040	112	114	61-131	2	20	
Styrene	ug/kg	<25.0	1790	1790	1730	1750	97	98	70-130	1	20	
Tetrachloroethene	ug/kg	<25.0	1790	1790	1640	1580	92	88	65-130	4	20	
Toluene	ug/kg	<25.0	1790	1790	1700	1730	95	97	65-130	2	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1790	1790	1770	1770	99	99	55-130	0	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1790	1790	1590	1540	89	86	54-130	3	20	
Trichloroethene	ug/kg	<25.0	1790	1790	1900	1820	106	101	70-130	4	20	
Trichlorofluoromethane	ug/kg	<25.0	1790	1790	1710	1540	95	86	42-150	10	24	
Vinyl chloride	ug/kg	<25.0	1790	1790	1690	1560	94	87	35-134	8	20	
Xylene (Total)	ug/kg	<75.0	5370	5370	5040	5010	94	93	60-130	1	20	
4-Bromofluorobenzene (S)	%						111	113	53-134			
Dibromofluoromethane (S)	%						125	123	49-157			
Toluene-d8 (S)	%						116	114	61-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: MSV/31311 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

METHOD BLANK: 1261205 Matrix: Water
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	<0.41	1.0	11/18/15 15:05	
1,2-Dichloroethane	ug/L	<0.17	1.0	11/18/15 15:05	
2-Butanone (MEK)	ug/L	<3.0	20.0	11/18/15 15:05	
Benzene	ug/L	<0.50	1.0	11/18/15 15:05	
Carbon tetrachloride	ug/L	<0.50	1.0	11/18/15 15:05	
Chlorobenzene	ug/L	<0.50	1.0	11/18/15 15:05	
Chloroform	ug/L	<2.5	5.0	11/18/15 15:05	
Tetrachloroethene	ug/L	<0.50	1.0	11/18/15 15:05	
Trichloroethene	ug/L	<0.33	1.0	11/18/15 15:05	
Vinyl chloride	ug/L	<0.18	1.0	11/18/15 15:05	
4-Bromofluorobenzene (S)	%	91	70-130	11/18/15 15:05	
Dibromofluoromethane (S)	%	104	70-130	11/18/15 15:05	
Toluene-d8 (S)	%	103	70-130	11/18/15 15:05	

METHOD BLANK: 1260461 Matrix: Solid
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	<4.1	10.0	11/18/15 18:41	
1,2-Dichloroethane	ug/L	<1.7	10.0	11/18/15 18:41	
2-Butanone (MEK)	ug/L	<29.8	200	11/18/15 18:41	
Benzene	ug/L	<5.0	10.0	11/18/15 18:41	
Carbon tetrachloride	ug/L	<5.0	10.0	11/18/15 18:41	
Chlorobenzene	ug/L	<5.0	10.0	11/18/15 18:41	
Chloroform	ug/L	<25.0	50.0	11/18/15 18:41	
Tetrachloroethene	ug/L	<5.0	10.0	11/18/15 18:41	
Trichloroethene	ug/L	<3.3	10.0	11/18/15 18:41	
Vinyl chloride	ug/L	<1.8	10.0	11/18/15 18:41	
4-Bromofluorobenzene (S)	%	91	70-130	11/18/15 18:41	
Dibromofluoromethane (S)	%	105	70-130	11/18/15 18:41	
Toluene-d8 (S)	%	104	70-130	11/18/15 18:41	

LABORATORY CONTROL SAMPLE: 1261206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	52.7	105	70-130	
1,2-Dichloroethane	ug/L	50	48.3	97	70-131	
Benzene	ug/L	50	51.0	102	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

LABORATORY CONTROL SAMPLE: 1261206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	53.5	107	70-130	
Chlorobenzene	ug/L	50	48.8	98	70-130	
Chloroform	ug/L	50	51.0	102	70-130	
Tetrachloroethene	ug/L	50	49.2	98	70-130	
Trichloroethene	ug/L	50	48.0	96	70-130	
Vinyl chloride	ug/L	50	48.0	96	65-142	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1261736 1261737

Parameter	Units	40124487001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	<4.1	500	500	528	533	106	107	70-139	1	20	
1,2-Dichloroethane	ug/L	<1.7	500	500	482	478	96	96	70-132	1	20	
2-Butanone (MEK)	ug/L	<29.8			<29.8	<29.8					20	
Benzene	ug/L	<5.0	500	500	510	512	102	102	70-130	0	20	
Carbon tetrachloride	ug/L	<5.0	500	500	540	537	108	107	70-130	1	20	
Chlorobenzene	ug/L	<5.0	500	500	497	493	99	99	70-130	1	20	
Chloroform	ug/L	<25.0	500	500	510	516	102	103	70-130	1	20	
Tetrachloroethene	ug/L	<5.0	500	500	503	496	101	99	70-130	1	20	
Trichloroethene	ug/L	<3.3	500	500	495	476	99	95	70-130	4	20	
Vinyl chloride	ug/L	<1.8	500	500	502	502	100	100	60-155	0	20	
4-Bromofluorobenzene (S)	%						100	101	70-130			
Dibromofluoromethane (S)	%						105	105	70-130			
Toluene-d8 (S)	%						103	104	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: OEXT/28738 Analysis Method: EPA 8082
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40124487001, 40124487003, 40124487005

METHOD BLANK: 1257543 Matrix: Solid
Associated Lab Samples: 40124487001, 40124487003, 40124487005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<25.0	50.0	11/13/15 07:44	
PCB-1221 (Aroclor 1221)	ug/kg	<25.0	50.0	11/13/15 07:44	
PCB-1232 (Aroclor 1232)	ug/kg	<25.0	50.0	11/13/15 07:44	
PCB-1242 (Aroclor 1242)	ug/kg	<25.0	50.0	11/13/15 07:44	
PCB-1248 (Aroclor 1248)	ug/kg	<25.0	50.0	11/13/15 07:44	
PCB-1254 (Aroclor 1254)	ug/kg	<25.0	50.0	11/13/15 07:44	
PCB-1260 (Aroclor 1260)	ug/kg	<25.0	50.0	11/13/15 07:44	
Decachlorobiphenyl (S)	%	104	39-130	11/13/15 07:44	
Tetrachloro-m-xylene (S)	%	85	46-130	11/13/15 07:44	

LABORATORY CONTROL SAMPLE: 1257544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<25.0			
PCB-1221 (Aroclor 1221)	ug/kg		<25.0			
PCB-1232 (Aroclor 1232)	ug/kg		<25.0			
PCB-1242 (Aroclor 1242)	ug/kg		<25.0			
PCB-1248 (Aroclor 1248)	ug/kg		<25.0			
PCB-1254 (Aroclor 1254)	ug/kg		<25.0			
PCB-1260 (Aroclor 1260)	ug/kg	500	414	83	63-130	
Decachlorobiphenyl (S)	%			112	39-130	
Tetrachloro-m-xylene (S)	%			98	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1257545 1257546

Parameter	Units	40124517003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<29.3			<29.3	<29.3					20	
PCB-1221 (Aroclor 1221)	ug/kg	<29.3			<29.3	<29.3					20	
PCB-1232 (Aroclor 1232)	ug/kg	<29.3			<29.3	<29.3					20	
PCB-1242 (Aroclor 1242)	ug/kg	<29.3			<29.3	<29.3					20	
PCB-1248 (Aroclor 1248)	ug/kg	<29.3			<29.3	<29.3					20	
PCB-1254 (Aroclor 1254)	ug/kg	<29.3			<29.3	<29.3					20	
PCB-1260 (Aroclor 1260)	ug/kg	<29.3	587	587	469	489	80	83	38-130	4	20	
Decachlorobiphenyl (S)	%						102	100	39-130			
Tetrachloro-m-xylene (S)	%						93	97	46-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: OEXT/28797 Analysis Method: EPA 8082
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40124487006, 40124487010

METHOD BLANK: 1259919 Matrix: Solid
Associated Lab Samples: 40124487006, 40124487010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<25.0	50.0	11/17/15 09:11	
PCB-1221 (Aroclor 1221)	ug/kg	<25.0	50.0	11/17/15 09:11	
PCB-1232 (Aroclor 1232)	ug/kg	<25.0	50.0	11/17/15 09:11	
PCB-1242 (Aroclor 1242)	ug/kg	<25.0	50.0	11/17/15 09:11	
PCB-1248 (Aroclor 1248)	ug/kg	<25.0	50.0	11/17/15 09:11	
PCB-1254 (Aroclor 1254)	ug/kg	<25.0	50.0	11/17/15 09:11	
PCB-1260 (Aroclor 1260)	ug/kg	<25.0	50.0	11/17/15 09:11	
Decachlorobiphenyl (S)	%	89	39-130	11/17/15 09:11	
Tetrachloro-m-xylene (S)	%	84	46-130	11/17/15 09:11	

LABORATORY CONTROL SAMPLE: 1259920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<25.0			
PCB-1221 (Aroclor 1221)	ug/kg		<25.0			
PCB-1232 (Aroclor 1232)	ug/kg		<25.0			
PCB-1242 (Aroclor 1242)	ug/kg		<25.0			
PCB-1248 (Aroclor 1248)	ug/kg		<25.0			
PCB-1254 (Aroclor 1254)	ug/kg		<25.0			
PCB-1260 (Aroclor 1260)	ug/kg	500	361	72	63-130	
Decachlorobiphenyl (S)	%			89	39-130	
Tetrachloro-m-xylene (S)	%			83	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1259921 1259922

Parameter	Units	40124780005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<25.5			<25.5	<25.5					20	
PCB-1221 (Aroclor 1221)	ug/kg	<25.5			<25.5	<25.5					20	
PCB-1232 (Aroclor 1232)	ug/kg	<25.5			<25.5	<25.5					20	
PCB-1242 (Aroclor 1242)	ug/kg	<25.5			<25.5	<25.5					20	
PCB-1248 (Aroclor 1248)	ug/kg	<25.5			<25.5	<25.5					20	
PCB-1254 (Aroclor 1254)	ug/kg	<25.5			<25.5	<25.5					20	
PCB-1260 (Aroclor 1260)	ug/kg	<25.5	510	510	395	380	77	75	38-130	4	20	
Decachlorobiphenyl (S)	%						94	92	39-130			
Tetrachloro-m-xylene (S)	%						93	91	46-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: OEXT/28827
QC Batch Method: EPA 3541
Analysis Method: EPA 8082
Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40124487012

METHOD BLANK: 1260668 Matrix: Solid
Associated Lab Samples: 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<25.0	50.0	11/18/15 11:15	
PCB-1221 (Aroclor 1221)	ug/kg	<25.0	50.0	11/18/15 11:15	
PCB-1232 (Aroclor 1232)	ug/kg	<25.0	50.0	11/18/15 11:15	
PCB-1242 (Aroclor 1242)	ug/kg	<25.0	50.0	11/18/15 11:15	
PCB-1248 (Aroclor 1248)	ug/kg	<25.0	50.0	11/18/15 11:15	
PCB-1254 (Aroclor 1254)	ug/kg	<25.0	50.0	11/18/15 11:15	
PCB-1260 (Aroclor 1260)	ug/kg	<25.0	50.0	11/18/15 11:15	
Decachlorobiphenyl (S)	%	97	39-130	11/18/15 11:15	
Tetrachloro-m-xylene (S)	%	87	46-130	11/18/15 11:15	

LABORATORY CONTROL SAMPLE: 1260669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<25.0			
PCB-1221 (Aroclor 1221)	ug/kg		<25.0			
PCB-1232 (Aroclor 1232)	ug/kg		<25.0			
PCB-1242 (Aroclor 1242)	ug/kg		<25.0			
PCB-1248 (Aroclor 1248)	ug/kg		<25.0			
PCB-1254 (Aroclor 1254)	ug/kg		<25.0			
PCB-1260 (Aroclor 1260)	ug/kg	500	374	75	63-130	
Decachlorobiphenyl (S)	%			96	39-130	
Tetrachloro-m-xylene (S)	%			86	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1260670 1260671

Parameter	Units	40124802001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<43.3			<43.3	<43.3					20	
PCB-1221 (Aroclor 1221)	ug/kg	<43.3			<43.3	<43.3					20	
PCB-1232 (Aroclor 1232)	ug/kg	<43.3			<43.3	<43.3					20	
PCB-1242 (Aroclor 1242)	ug/kg	<43.3			<43.3	<43.3					20	
PCB-1248 (Aroclor 1248)	ug/kg	<43.3			<43.3	<43.3					20	
PCB-1254 (Aroclor 1254)	ug/kg	<43.3			<43.3	<43.3					20	
PCB-1260 (Aroclor 1260)	ug/kg	<43.3	866	866	607	539	70	62	38-130	12	20	
Decachlorobiphenyl (S)	%						85	75	39-130			
Tetrachloro-m-xylene (S)	%						86	81	46-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: OEXT/28836 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40124487001, 40124487002, 40124487003, 40124487004, 40124487005, 40124487006, 40124487007, 40124487009, 40124487010, 40124487011, 40124487012

METHOD BLANK: 1261355 Matrix: Solid
Associated Lab Samples: 40124487001, 40124487002, 40124487003, 40124487004, 40124487005, 40124487006, 40124487007, 40124487009, 40124487010, 40124487011, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	11/18/15 15:19	
2-Methylnaphthalene	ug/kg	<8.3	16.7	11/18/15 15:19	
Acenaphthene	ug/kg	<8.3	16.7	11/18/15 15:19	
Acenaphthylene	ug/kg	<7.5	16.7	11/18/15 15:19	
Anthracene	ug/kg	<8.6	16.7	11/18/15 15:19	
Benzo(a)anthracene	ug/kg	<5.8	16.7	11/18/15 15:19	
Benzo(a)pyrene	ug/kg	<6.0	16.7	11/18/15 15:19	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	11/18/15 15:19	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	11/18/15 15:19	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	11/18/15 15:19	
Chrysene	ug/kg	<7.7	16.7	11/18/15 15:19	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	11/18/15 15:19	
Fluoranthene	ug/kg	<8.3	16.7	11/18/15 15:19	
Fluorene	ug/kg	<8.3	16.7	11/18/15 15:19	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	11/18/15 15:19	
Naphthalene	ug/kg	<8.3	16.7	11/18/15 15:19	
Phenanthrene	ug/kg	<8.3	16.7	11/18/15 15:19	
Pyrene	ug/kg	<8.3	16.7	11/18/15 15:19	
2-Fluorobiphenyl (S)	%	74	39-130	11/18/15 15:19	
Terphenyl-d14 (S)	%	79	37-130	11/18/15 15:19	

LABORATORY CONTROL SAMPLE: 1261356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	280	84	53-130	
2-Methylnaphthalene	ug/kg	333	278	83	52-130	
Acenaphthene	ug/kg	333	283	85	54-130	
Acenaphthylene	ug/kg	333	286	86	55-130	
Anthracene	ug/kg	333	337	101	64-130	
Benzo(a)anthracene	ug/kg	333	278	84	50-130	
Benzo(a)pyrene	ug/kg	333	271	81	46-130	
Benzo(b)fluoranthene	ug/kg	333	297	89	43-130	
Benzo(g,h,i)perylene	ug/kg	333	280	84	48-130	
Benzo(k)fluoranthene	ug/kg	333	247	74	55-130	
Chrysene	ug/kg	333	279	84	62-130	
Dibenz(a,h)anthracene	ug/kg	333	293	88	49-130	
Fluoranthene	ug/kg	333	284	85	57-130	
Fluorene	ug/kg	333	273	82	57-130	

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(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

LABORATORY CONTROL SAMPLE: 1261356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	333	295	89	50-130	
Naphthalene	ug/kg	333	253	76	48-130	
Phenanthrene	ug/kg	333	284	85	51-130	
Pyrene	ug/kg	333	272	82	55-130	
2-Fluorobiphenyl (S)	%			80	39-130	
Terphenyl-d14 (S)	%			83	37-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1261357 1261358

Parameter	Units	40124373001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<8.8	351	351	246	246	70	69	50-130	0	30	
2-Methylnaphthalene	ug/kg	<8.8	351	351	255	253	72	71	44-130	1	32	
Acenaphthene	ug/kg	<8.8	351	351	250	258	71	73	46-130	3	26	
Acenaphthylene	ug/kg	<7.9	351	351	262	262	74	75	49-130	0	23	
Anthracene	ug/kg	<9.1	351	351	323	313	92	89	52-130	3	28	
Benzo(a)anthracene	ug/kg	<6.1	351	351	252	246	71	70	34-130	2	36	
Benzo(a)pyrene	ug/kg	<6.3	351	351	255	239	72	68	34-130	7	40	
Benzo(b)fluoranthene	ug/kg	<8.8	351	351	251	246	71	70	22-130	2	40	
Benzo(g,h,i)perylene	ug/kg	<6.7	351	351	266	251	75	71	24-130	6	35	
Benzo(k)fluoranthene	ug/kg	<9.7	351	351	264	239	75	68	41-130	10	37	
Chrysene	ug/kg	<8.1	351	351	271	259	76	73	49-130	5	33	
Dibenz(a,h)anthracene	ug/kg	<6.4	351	351	271	256	77	73	27-130	5	31	
Fluoranthene	ug/kg	<8.8	351	351	264	253	74	71	34-130	4	37	
Fluorene	ug/kg	<8.8	351	351	250	249	71	71	45-130	1	25	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.7	351	351	276	259	78	73	30-130	6	34	
Naphthalene	ug/kg	<8.8	351	351	242	239	68	67	38-130	1	30	
Phenanthrene	ug/kg	<8.8	351	351	269	255	76	72	38-130	6	34	
Pyrene	ug/kg	<8.8	351	351	244	236	69	66	35-130	4	35	
2-Fluorobiphenyl (S)	%						67	68	39-130			
Terphenyl-d14 (S)	%						68	66	37-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: OEXT/28899
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40124487008

METHOD BLANK: 1264250 Matrix: Solid
Associated Lab Samples: 40124487008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	11/24/15 12:00	
2-Methylnaphthalene	ug/kg	<8.3	16.7	11/24/15 12:00	
Acenaphthene	ug/kg	<8.3	16.7	11/24/15 12:00	
Acenaphthylene	ug/kg	<7.5	16.7	11/24/15 12:00	
Anthracene	ug/kg	<8.6	16.7	11/24/15 12:00	
Benzo(a)anthracene	ug/kg	<5.8	16.7	11/24/15 12:00	
Benzo(a)pyrene	ug/kg	<6.0	16.7	11/24/15 12:00	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	11/24/15 12:00	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	11/24/15 12:00	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	11/24/15 12:00	
Chrysene	ug/kg	<7.7	16.7	11/24/15 12:00	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	11/24/15 12:00	
Fluoranthene	ug/kg	<8.3	16.7	11/24/15 12:00	
Fluorene	ug/kg	<8.3	16.7	11/24/15 12:00	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	11/24/15 12:00	
Naphthalene	ug/kg	<8.3	16.7	11/24/15 12:00	
Phenanthrene	ug/kg	<8.3	16.7	11/24/15 12:00	
Pyrene	ug/kg	<8.3	16.7	11/24/15 12:00	
2-Fluorobiphenyl (S)	%	74	39-130	11/24/15 12:00	
Terphenyl-d14 (S)	%	82	37-130	11/24/15 12:00	

LABORATORY CONTROL SAMPLE: 1264251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	253	76	53-130	
2-Methylnaphthalene	ug/kg	333	247	74	52-130	
Acenaphthene	ug/kg	333	253	76	54-130	
Acenaphthylene	ug/kg	333	253	76	55-130	
Anthracene	ug/kg	333	294	88	64-130	
Benzo(a)anthracene	ug/kg	333	249	75	50-130	
Benzo(a)pyrene	ug/kg	333	246	74	46-130	
Benzo(b)fluoranthene	ug/kg	333	243	73	43-130	
Benzo(g,h,i)perylene	ug/kg	333	241	72	48-130	
Benzo(k)fluoranthene	ug/kg	333	247	74	55-130	
Chrysene	ug/kg	333	255	76	62-130	
Dibenz(a,h)anthracene	ug/kg	333	246	74	49-130	
Fluoranthene	ug/kg	333	255	77	57-130	
Fluorene	ug/kg	333	242	73	57-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	249	75	50-130	
Naphthalene	ug/kg	333	223	67	48-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

LABORATORY CONTROL SAMPLE: 1264251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	256	77	51-130	
Pyrene	ug/kg	333	247	74	55-130	
2-Fluorobiphenyl (S)	%			73	39-130	
Terphenyl-d14 (S)	%			79	37-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: OEXT/28774 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

METHOD BLANK: 1259551 Matrix: Solid
Associated Lab Samples: 40124487001, 40124487003, 40124487005, 40124487006, 40124487010, 40124487012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<0.80	2.0	11/15/15 17:36	

LABORATORY CONTROL SAMPLE & LCSD: 1259552 1259553

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	40	29.1	34.6	73	87	70-120	17	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: PMST/12103
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40124487001, 40124487002

SAMPLE DUPLICATE: 1256734

Parameter	Units	40124477002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.6	8.7	2	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

QC Batch: PMST/12105 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40124487003, 40124487004, 40124487005, 40124487006, 40124487007, 40124487008, 40124487009, 40124487010, 40124487011, 40124487012

SAMPLE DUPLICATE: 1256803

Parameter	Units	40124477003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.7	9.6	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALIFIERS

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

DEFINITIONS

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

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
G+	Late peaks present outside the GRO window.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
T4	Result reported for hydrocarbons within the method-specific range that do not match pattern of laboratory standard.
W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40124487001	**MGE-1 (2-4')**	EPA 3541	OEXT/28738	EPA 8082	GCSV/13739
40124487003	**MGE-3 (3-5')**	EPA 3541	OEXT/28738	EPA 8082	GCSV/13739
40124487005	**MGE-5 (2-4')**	EPA 3541	OEXT/28738	EPA 8082	GCSV/13739
40124487006	**MGE-6 (3-5')**	EPA 3541	OEXT/28797	EPA 8082	GCSV/13756
40124487010	**MGE-10 (2-4')**	EPA 3541	OEXT/28797	EPA 8082	GCSV/13756
40124487012	**MGE-12 (3-5')**	EPA 3541	OEXT/28827	EPA 8082	GCSV/13762
40124487001	**MGE-1 (2-4')**	WI MOD DRO	OEXT/28774	WI MOD DRO	GCSV/13751
40124487003	**MGE-3 (3-5')**	WI MOD DRO	OEXT/28774	WI MOD DRO	GCSV/13751
40124487005	**MGE-5 (2-4')**	WI MOD DRO	OEXT/28774	WI MOD DRO	GCSV/13751
40124487006	**MGE-6 (3-5')**	WI MOD DRO	OEXT/28774	WI MOD DRO	GCSV/13751
40124487010	**MGE-10 (2-4')**	WI MOD DRO	OEXT/28774	WI MOD DRO	GCSV/13751
40124487012	**MGE-12 (3-5')**	WI MOD DRO	OEXT/28774	WI MOD DRO	GCSV/13751
40124487001	**MGE-1 (2-4')**	TPH GRO/PVOC WI ext.	GCV/15345	WI MOD GRO	GCV/15346
40124487003	**MGE-3 (3-5')**	TPH GRO/PVOC WI ext.	GCV/15345	WI MOD GRO	GCV/15346
40124487005	**MGE-5 (2-4')**	TPH GRO/PVOC WI ext.	GCV/15345	WI MOD GRO	GCV/15346
40124487006	**MGE-6 (3-5')**	TPH GRO/PVOC WI ext.	GCV/15345	WI MOD GRO	GCV/15346
40124487010	**MGE-10 (2-4')**	TPH GRO/PVOC WI ext.	GCV/15345	WI MOD GRO	GCV/15346
40124487012	**MGE-12 (3-5')**	TPH GRO/PVOC WI ext.	GCV/15345	WI MOD GRO	GCV/15346
40124487001	**MGE-1 (2-4')**	EPA 3050	MPRP/12933	EPA 6010	ICP/11492
40124487002	**MGE-2 (2-4')**	EPA 3050	MPRP/12933	EPA 6010	ICP/11492
40124487003	**MGE-3 (3-5')**	EPA 3050	MPRP/12933	EPA 6010	ICP/11492
40124487004	**MGE-4 (2-4')**	EPA 3050	MPRP/12933	EPA 6010	ICP/11492
40124487005	**MGE-5 (2-4')**	EPA 3050	MPRP/12933	EPA 6010	ICP/11492
40124487006	**MGE-6 (3-5')**	EPA 3050	MPRP/12933	EPA 6010	ICP/11492
40124487007	**MGE-7 (2-4')**	EPA 3050	MPRP/12933	EPA 6010	ICP/11492
40124487008	**MGE-8 (2-4')**	EPA 3050	MPRP/12933	EPA 6010	ICP/11492
40124487009	**MGE-9 (3-5')**	EPA 3050	MPRP/12932	EPA 6010	ICP/11491
40124487010	**MGE-10 (2-4')**	EPA 3050	MPRP/12932	EPA 6010	ICP/11491
40124487011	**MGE-11 (3-5')**	EPA 3050	MPRP/12932	EPA 6010	ICP/11491
40124487012	**MGE-12 (3-5')**	EPA 3050	MPRP/12932	EPA 6010	ICP/11491
40124487001	**MGE-1 (2-4')**	EPA 3010	MPRP/12949	EPA 6010	ICP/11496
40124487003	**MGE-3 (3-5')**	EPA 3010	MPRP/12949	EPA 6010	ICP/11496
40124487005	**MGE-5 (2-4')**	EPA 3010	MPRP/12949	EPA 6010	ICP/11496
40124487006	**MGE-6 (3-5')**	EPA 3010	MPRP/12949	EPA 6010	ICP/11496
40124487010	**MGE-10 (2-4')**	EPA 3010	MPRP/12949	EPA 6010	ICP/11496
40124487012	**MGE-12 (3-5')**	EPA 3010	MPRP/12949	EPA 6010	ICP/11496
40124487001	**MGE-1 (2-4')**	EPA 7470	MERP/5390	EPA 7470	MERC/7470
40124487003	**MGE-3 (3-5')**	EPA 7470	MERP/5390	EPA 7470	MERC/7470
40124487005	**MGE-5 (2-4')**	EPA 7470	MERP/5390	EPA 7470	MERC/7470
40124487006	**MGE-6 (3-5')**	EPA 7470	MERP/5390	EPA 7470	MERC/7470
40124487010	**MGE-10 (2-4')**	EPA 7470	MERP/5390	EPA 7470	MERC/7470
40124487012	**MGE-12 (3-5')**	EPA 7470	MERP/5390	EPA 7470	MERC/7470
40124487001	**MGE-1 (2-4')**	EPA 7471	MERP/5366	EPA 7471	MERC/7463
40124487002	**MGE-2 (2-4')**	EPA 7471	MERP/5366	EPA 7471	MERC/7463

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40124487003	**MGE-3 (3-5')**	EPA 7471	MERP/5366	EPA 7471	MERC/7463
40124487004	**MGE-4 (2-4')**	EPA 7471	MERP/5366	EPA 7471	MERC/7463
40124487005	**MGE-5 (2-4')**	EPA 7471	MERP/5366	EPA 7471	MERC/7463
40124487006	**MGE-6 (3-5')**	EPA 7471	MERP/5366	EPA 7471	MERC/7463
40124487007	**MGE-7 (2-4')**	EPA 7471	MERP/5366	EPA 7471	MERC/7463
40124487008	**MGE-8 (2-4')**	EPA 7471	MERP/5366	EPA 7471	MERC/7463
40124487009	**MGE-9 (3-5')**	EPA 7471	MERP/5366	EPA 7471	MERC/7463
40124487010	**MGE-10 (2-4')**	EPA 7471	MERP/5366	EPA 7471	MERC/7463
40124487011	**MGE-11 (3-5')**	EPA 7471	MERP/5366	EPA 7471	MERC/7463
40124487012	**MGE-12 (3-5')**	EPA 7471	MERP/5366	EPA 7471	MERC/7463
40124487001	**MGE-1 (2-4')**	EPA 3546	OEXT/28836	EPA 8270 by SIM	MSSV/8507
40124487002	**MGE-2 (2-4')**	EPA 3546	OEXT/28836	EPA 8270 by SIM	MSSV/8507
40124487003	**MGE-3 (3-5')**	EPA 3546	OEXT/28836	EPA 8270 by SIM	MSSV/8507
40124487004	**MGE-4 (2-4')**	EPA 3546	OEXT/28836	EPA 8270 by SIM	MSSV/8507
40124487005	**MGE-5 (2-4')**	EPA 3546	OEXT/28836	EPA 8270 by SIM	MSSV/8507
40124487006	**MGE-6 (3-5')**	EPA 3546	OEXT/28836	EPA 8270 by SIM	MSSV/8507
40124487007	**MGE-7 (2-4')**	EPA 3546	OEXT/28836	EPA 8270 by SIM	MSSV/8507
40124487008	**MGE-8 (2-4')**	EPA 3546	OEXT/28899	EPA 8270 by SIM	MSSV/8523
40124487009	**MGE-9 (3-5')**	EPA 3546	OEXT/28836	EPA 8270 by SIM	MSSV/8507
40124487010	**MGE-10 (2-4')**	EPA 3546	OEXT/28836	EPA 8270 by SIM	MSSV/8507
40124487011	**MGE-11 (3-5')**	EPA 3546	OEXT/28836	EPA 8270 by SIM	MSSV/8507
40124487012	**MGE-12 (3-5')**	EPA 3546	OEXT/28836	EPA 8270 by SIM	MSSV/8507
40124487001	**MGE-1 (2-4')**	EPA 5035/5030B	MSV/31243	EPA 8260	MSV/31244
40124487002	**MGE-2 (2-4')**	EPA 5035/5030B	MSV/31243	EPA 8260	MSV/31244
40124487003	**MGE-3 (3-5')**	EPA 5035/5030B	MSV/31243	EPA 8260	MSV/31244
40124487004	**MGE-4 (2-4')**	EPA 5035/5030B	MSV/31243	EPA 8260	MSV/31244
40124487005	**MGE-5 (2-4')**	EPA 5035/5030B	MSV/31243	EPA 8260	MSV/31244
40124487006	**MGE-6 (3-5')**	EPA 5035/5030B	MSV/31243	EPA 8260	MSV/31244
40124487007	**MGE-7 (2-4')**	EPA 5035/5030B	MSV/31243	EPA 8260	MSV/31244
40124487008	**MGE-8 (2-4')**	EPA 5035/5030B	MSV/31243	EPA 8260	MSV/31244
40124487009	**MGE-9 (3-5')**	EPA 5035/5030B	MSV/31243	EPA 8260	MSV/31244
40124487010	**MGE-10 (2-4')**	EPA 5035/5030B	MSV/31243	EPA 8260	MSV/31244
40124487011	**MGE-11 (3-5')**	EPA 5035/5030B	MSV/31243	EPA 8260	MSV/31244
40124487012	**MGE-12 (3-5')**	EPA 5035/5030B	MSV/31243	EPA 8260	MSV/31244
40124487001	**MGE-1 (2-4')**	EPA 8260	MSV/31311		
40124487003	**MGE-3 (3-5')**	EPA 8260	MSV/31311		
40124487005	**MGE-5 (2-4')**	EPA 8260	MSV/31311		
40124487006	**MGE-6 (3-5')**	EPA 8260	MSV/31311		
40124487010	**MGE-10 (2-4')**	EPA 8260	MSV/31311		
40124487012	**MGE-12 (3-5')**	EPA 8260	MSV/31311		
40124487001	**MGE-1 (2-4')**	ASTM D2974-87	PMST/12103		
40124487002	**MGE-2 (2-4')**	ASTM D2974-87	PMST/12103		
40124487003	**MGE-3 (3-5')**	ASTM D2974-87	PMST/12105		
40124487004	**MGE-4 (2-4')**	ASTM D2974-87	PMST/12105		
40124487005	**MGE-5 (2-4')**	ASTM D2974-87	PMST/12105		

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: T215-030 MGE LIVINGSTON
Pace Project No.: 40124487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40124487006	**MGE-6 (3-5')**	ASTM D2974-87	PMST/12105		
40124487007	**MGE-7 (2-4')**	ASTM D2974-87	PMST/12105		
40124487008	**MGE-8 (2-4')**	ASTM D2974-87	PMST/12105		
40124487009	**MGE-9 (3-5')**	ASTM D2974-87	PMST/12105		
40124487010	**MGE-10 (2-4')**	ASTM D2974-87	PMST/12105		
40124487011	**MGE-11 (3-5')**	ASTM D2974-87	PMST/12105		
40124487012	**MGE-12 (3-5')**	ASTM D2974-87	PMST/12105		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
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CHAIN OF CUSTODY

40124487

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	TRUE NORTH CONSULTANTS, INC.
Branch/Location:	MADISON, WI
Project Contact:	CHRIS VALCHEFF
Phone:	608-577-8315
Project Number:	TZ15-030
Project Name:	MGE - LIVINGSTON STREET YARDS
Project State:	WI
Sampled By (Print):	CHRIS VALCHEFF
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	CHRIS VALCHEFF
Mail To Company:	TRUE NORTH CONSULTANTS, INC.
Mail To Address:	525 JUNCTION ROAD SUITE 1900 MADISON, WI 53717
Invoice To Contact:	AS ABOVE
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	VOCs	PAHs	RCRA Metals	GRO	DRO	PCBs	TCLP VOCs	TCLP Metals	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MGE-1 (2-4')	11/9/15	08:30	S		N	F/A	X	X	X	X	X	X	X	X	3-4oz clA 1-4oz pA 1-4oz pA	2-40ml vF 1-4oz clA 1-40ml vF 1-4oz clA	
002	MGE-2 (2-4')	11/9/15	09:00	S		N	F/A	X	X	X								
003	MGE-3 (3-5')	11/9/15	09:15	S		N	F/A	X	X	X	X	X	X	X	X	2-4oz pA 1-4oz clA 1-4oz pA	2-40ml vF 3-4oz clA 1-40ml vF 1-4oz clA	
004	MGE-4 (2-4')	11/9/15	09:45	S		N	F/A	X	X	X								
005	MGE-5 (2-4')	11/9/15	10:15	S		N	F/A	X	X	X	X	X	X	X	X	3-4oz clA 2-4oz pA	2-40ml vF 1-4oz clA	
006	MGE-6 (3-5')	11/9/15	10:30	S		N	F/A	X	X	X	X	X	X	X	X	↓ ↓ 1-4oz pA	↓ ↓ 1-40ml vF 1-4oz clA	
007	MGE-7 (2-4')	11/9/15	11:00	S		N	F/A	X	X	X								
008	MGE-8 (2-4')	11/9/15	11:15	S		N	F/A	X	X	X								
009	MGE-9 (3-5')	11/9/15	12:20	S		N	F/A	X	X	X								
010	MGE-10 (2-4')	11/9/15	12:40	S		N	F/A	X	X	X	X	X	X	X	X	3-4oz clA 2-4oz pA	2-40ml vF 1-4oz clA	
011	MGE-11 (3-5')	11/9/15	13:00	S		N	F/A	X	X	X						1-4oz pA	1-40ml vF 1-4oz clA	
012	MGE-12 (3-5')	11/9/15	13:45	S		N	F/A	X	X	X	X	X	X	X	X	3-4oz clA 2-4oz pA	2-40ml vF 1-4oz clA	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	11/10/15	WALTCO	11/10/15
WALTCO	11/11/15 0835	Pace	11/11/15 0835

PACE Project No.
40124487

Receipt Temp = 2 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: WO# : 40124487

40124487

Client Name: True North

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Waltco

Tracking #: 912786-1

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

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR 104 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2 /Corr: 2 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 11/11/15
Initials: TL

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	14.
Trip Blank Present:	☐Yes ☒No ☐N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AM-for DM **Date:** 11/11/15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 18, 2015

Chris Valcheff
True North Consultants, Inc.
525 Junction Road, Suite 1900
Madison, WI 53717

RE: Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Dear Chris Valcheff:
Enclosed are the analytical results for sample(s) received by the laboratory on November 11, 2015. 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,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40124486001	**MGE-1**	Water	11/09/15 08:35	11/11/15 08:35
40124486002	**MGE-4**	Water	11/09/15 10:00	11/11/15 08:35
40124486003	**MGE-6**	Water	11/09/15 10:40	11/11/15 08:35
40124486004	**MGE-9**	Water	11/09/15 12:15	11/11/15 08:35
40124486005	**MGE-11**	Water	11/09/15 13:10	11/11/15 08:35

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SAMPLE ANALYTE COUNT

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40124486001	**MGE-1**	EPA 8260	AJP	63
40124486002	**MGE-4**	EPA 8260	AJP	63
40124486003	**MGE-6**	EPA 8260	HNW	63
40124486004	**MGE-9**	EPA 8260	AJP	63
40124486005	**MGE-11**	EPA 8260	AJP	63

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40124486001	**MGE-1**					
EPA 8260	Chloromethane	8.3	ug/L	1.0	11/14/15 15:50	
40124486002	**MGE-4**					
EPA 8260	Chloromethane	6.5	ug/L	1.0	11/14/15 16:13	
40124486003	**MGE-6**					
EPA 8260	1,2,4-Trimethylbenzene	0.56J	ug/L	1.0	11/16/15 09:44	
EPA 8260	Chloromethane	6.2	ug/L	1.0	11/16/15 09:44	
EPA 8260	Isopropylbenzene (Cumene)	8.6	ug/L	1.0	11/16/15 09:44	
EPA 8260	Naphthalene	3.8J	ug/L	5.0	11/16/15 09:44	
EPA 8260	n-Butylbenzene	7.9	ug/L	1.0	11/16/15 09:44	
EPA 8260	n-Propylbenzene	12.7	ug/L	1.0	11/16/15 09:44	
EPA 8260	p-Isopropyltoluene	0.55J	ug/L	1.0	11/16/15 09:44	
EPA 8260	sec-Butylbenzene	5.3	ug/L	5.0	11/16/15 09:44	
EPA 8260	tert-Butylbenzene	0.76J	ug/L	1.0	11/16/15 09:44	
40124486004	**MGE-9**					
EPA 8260	Chloromethane	5.3	ug/L	1.0	11/14/15 16:58	
40124486005	**MGE-11**					
EPA 8260	Chloromethane	4.9	ug/L	1.0	11/14/15 17:21	
EPA 8260	Isopropylbenzene (Cumene)	6.6	ug/L	1.0	11/14/15 17:21	
EPA 8260	Naphthalene	13.9	ug/L	5.0	11/14/15 17:21	
EPA 8260	n-Butylbenzene	5.3	ug/L	1.0	11/14/15 17:21	
EPA 8260	n-Propylbenzene	9.8	ug/L	1.0	11/14/15 17:21	
EPA 8260	p-Isopropyltoluene	0.63J	ug/L	1.0	11/14/15 17:21	
EPA 8260	sec-Butylbenzene	4.0J	ug/L	5.0	11/14/15 17:21	
EPA 8260	tert-Butylbenzene	0.66J	ug/L	1.0	11/14/15 17:21	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Sample: MGE-1 **Lab ID: 40124486001** Collected: 11/09/15 08:35 Received: 11/11/15 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/14/15 15:50	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/14/15 15:50	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/14/15 15:50	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/15 15:50	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/14/15 15:50	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/14/15 15:50	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/14/15 15:50	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/14/15 15:50	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/14/15 15:50	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/14/15 15:50	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/14/15 15:50	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/14/15 15:50	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/14/15 15:50	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/14/15 15:50	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/14/15 15:50	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/14/15 15:50	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/14/15 15:50	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/14/15 15:50	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/14/15 15:50	67-66-3	
Chloromethane	**8.3**	ug/L	1.0	0.50	1		11/14/15 15:50	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/14/15 15:50	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/14/15 15:50	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/14/15 15:50	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/14/15 15:50	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/14/15 15:50	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/14/15 15:50	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/14/15 15:50	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Sample: MGE-1 **Lab ID: 40124486001** Collected: 11/09/15 08:35 Received: 11/11/15 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/14/15 15:50	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/14/15 15:50	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/14/15 15:50	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/15 15:50	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/15 15:50	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 15:50	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/14/15 15:50	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/14/15 15:50	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/15 15:50	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/14/15 15:50	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/14/15 15:50	460-00-4	pH
Dibromofluoromethane (S)	106	%	70-130		1		11/14/15 15:50	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/14/15 15:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Sample: MGE-4 **Lab ID: 40124486002** Collected: 11/09/15 10:00 Received: 11/11/15 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/14/15 16:13	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/14/15 16:13	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/14/15 16:13	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/15 16:13	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/14/15 16:13	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/14/15 16:13	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/14/15 16:13	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/14/15 16:13	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/14/15 16:13	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/14/15 16:13	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/14/15 16:13	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/14/15 16:13	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/14/15 16:13	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/14/15 16:13	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/14/15 16:13	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/14/15 16:13	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/14/15 16:13	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/14/15 16:13	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/14/15 16:13	67-66-3	
Chloromethane	**6.5**	ug/L	1.0	0.50	1		11/14/15 16:13	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/14/15 16:13	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/14/15 16:13	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/14/15 16:13	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/14/15 16:13	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/14/15 16:13	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/14/15 16:13	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/14/15 16:13	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Sample: MGE-4 **Lab ID: 40124486002** Collected: 11/09/15 10:00 Received: 11/11/15 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/14/15 16:13	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/14/15 16:13	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/14/15 16:13	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/15 16:13	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/15 16:13	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:13	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/14/15 16:13	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/14/15 16:13	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/15 16:13	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/14/15 16:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/14/15 16:13	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/14/15 16:13	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/14/15 16:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Sample: MGE-6 **Lab ID: 40124486003** Collected: 11/09/15 10:40 Received: 11/11/15 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/16/15 09:44	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/16/15 09:44	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/16/15 09:44	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/16/15 09:44	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/16/15 09:44	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/16/15 09:44	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/16/15 09:44	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/16/15 09:44	120-82-1	
1,2,4-Trimethylbenzene	**0.56J**	ug/L	1.0	0.50	1		11/16/15 09:44	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/16/15 09:44	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/16/15 09:44	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/16/15 09:44	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/16/15 09:44	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/16/15 09:44	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/16/15 09:44	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/16/15 09:44	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/16/15 09:44	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/16/15 09:44	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/16/15 09:44	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/16/15 09:44	67-66-3	
Chloromethane	**6.2**	ug/L	1.0	0.50	1		11/16/15 09:44	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/16/15 09:44	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/16/15 09:44	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/16/15 09:44	87-68-3	
Isopropylbenzene (Cumene)	**8.6**	ug/L	1.0	0.14	1		11/16/15 09:44	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/16/15 09:44	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/16/15 09:44	75-09-2	
Naphthalene	**3.8J**	ug/L	5.0	2.5	1		11/16/15 09:44	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Sample: MGE-6 **Lab ID: 40124486003** Collected: 11/09/15 10:40 Received: 11/11/15 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/16/15 09:44	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/16/15 09:44	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/16/15 09:44	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/16/15 09:44	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/16/15 09:44	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/16/15 09:44	10061-01-5	
n-Butylbenzene	**7.9**	ug/L	1.0	0.50	1		11/16/15 09:44	104-51-8	
n-Propylbenzene	**12.7**	ug/L	1.0	0.50	1		11/16/15 09:44	103-65-1	
p-Isopropyltoluene	**0.55J**	ug/L	1.0	0.50	1		11/16/15 09:44	99-87-6	
sec-Butylbenzene	**5.3**	ug/L	5.0	2.2	1		11/16/15 09:44	135-98-8	
tert-Butylbenzene	**0.76J**	ug/L	1.0	0.18	1		11/16/15 09:44	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/16/15 09:44	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/16/15 09:44	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/16/15 09:44	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		1		11/16/15 09:44	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/16/15 09:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Sample: MGE-9 **Lab ID: 40124486004** Collected: 11/09/15 12:15 Received: 11/11/15 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/14/15 16:58	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/14/15 16:58	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/14/15 16:58	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/15 16:58	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/14/15 16:58	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/14/15 16:58	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/14/15 16:58	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/14/15 16:58	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/14/15 16:58	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/14/15 16:58	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/14/15 16:58	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/14/15 16:58	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/14/15 16:58	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/14/15 16:58	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/14/15 16:58	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/14/15 16:58	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/14/15 16:58	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/14/15 16:58	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/14/15 16:58	67-66-3	
Chloromethane	**5.3**	ug/L	1.0	0.50	1		11/14/15 16:58	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/14/15 16:58	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/14/15 16:58	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/14/15 16:58	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/14/15 16:58	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/14/15 16:58	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/14/15 16:58	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/14/15 16:58	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Sample: MGE-9 **Lab ID: 40124486004** Collected: 11/09/15 12:15 Received: 11/11/15 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/14/15 16:58	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/14/15 16:58	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/14/15 16:58	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/15 16:58	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/15 16:58	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	10061-01-5	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	103-65-1	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 16:58	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/14/15 16:58	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/14/15 16:58	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/15 16:58	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/14/15 16:58	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/14/15 16:58	460-00-4	pH
Dibromofluoromethane (S)	95	%	70-130		1		11/14/15 16:58	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		11/14/15 16:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Sample: MGE-11 **Lab ID: 40124486005** Collected: 11/09/15 13:10 Received: 11/11/15 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/14/15 17:21	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/14/15 17:21	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/14/15 17:21	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/15 17:21	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/14/15 17:21	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/14/15 17:21	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/14/15 17:21	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/14/15 17:21	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/14/15 17:21	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/14/15 17:21	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/14/15 17:21	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/14/15 17:21	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/14/15 17:21	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/14/15 17:21	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/14/15 17:21	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/14/15 17:21	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/14/15 17:21	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/14/15 17:21	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/14/15 17:21	67-66-3	
Chloromethane	**4.9**	ug/L	1.0	0.50	1		11/14/15 17:21	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/14/15 17:21	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/14/15 17:21	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/14/15 17:21	87-68-3	
Isopropylbenzene (Cumene)	**6.6**	ug/L	1.0	0.14	1		11/14/15 17:21	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/14/15 17:21	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/14/15 17:21	75-09-2	
Naphthalene	**13.9**	ug/L	5.0	2.5	1		11/14/15 17:21	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Sample: MGE-11 **Lab ID: 40124486005** Collected: 11/09/15 13:10 Received: 11/11/15 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/14/15 17:21	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/14/15 17:21	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/14/15 17:21	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/15 17:21	1330-20-7	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/15 17:21	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/14/15 17:21	10061-01-5	
n-Butylbenzene	**5.3**	ug/L	1.0	0.50	1		11/14/15 17:21	104-51-8	
n-Propylbenzene	**9.8**	ug/L	1.0	0.50	1		11/14/15 17:21	103-65-1	
p-Isopropyltoluene	**0.63J**	ug/L	1.0	0.50	1		11/14/15 17:21	99-87-6	
sec-Butylbenzene	**4.0J**	ug/L	5.0	2.2	1		11/14/15 17:21	135-98-8	
tert-Butylbenzene	**0.66J**	ug/L	1.0	0.18	1		11/14/15 17:21	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/15 17:21	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/14/15 17:21	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/14/15 17:21	460-00-4	pH
Dibromofluoromethane (S)	91	%	70-130		1		11/14/15 17:21	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/14/15 17:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

QC Batch: MSV/31232 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40124486001, 40124486002, 40124486003, 40124486004, 40124486005

METHOD BLANK: 1257644 Matrix: Water
Associated Lab Samples: 40124486001, 40124486002, 40124486003, 40124486004, 40124486005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	11/14/15 09:01	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	11/14/15 09:01	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	11/14/15 09:01	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	11/14/15 09:01	
1,1-Dichloroethane	ug/L	<0.24	1.0	11/14/15 09:01	
1,1-Dichloroethene	ug/L	<0.41	1.0	11/14/15 09:01	
1,1-Dichloropropene	ug/L	<0.44	1.0	11/14/15 09:01	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	11/14/15 09:01	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	11/14/15 09:01	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	11/14/15 09:01	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	11/14/15 09:01	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	11/14/15 09:01	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	11/14/15 09:01	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	11/14/15 09:01	
1,2-Dichloroethane	ug/L	<0.17	1.0	11/14/15 09:01	
1,2-Dichloropropane	ug/L	<0.23	1.0	11/14/15 09:01	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	11/14/15 09:01	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	11/14/15 09:01	
1,3-Dichloropropane	ug/L	<0.50	1.0	11/14/15 09:01	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	11/14/15 09:01	
2,2-Dichloropropane	ug/L	<0.48	1.0	11/14/15 09:01	
2-Chlorotoluene	ug/L	<0.50	1.0	11/14/15 09:01	
4-Chlorotoluene	ug/L	<0.21	1.0	11/14/15 09:01	
Benzene	ug/L	<0.50	1.0	11/14/15 09:01	
Bromobenzene	ug/L	<0.23	1.0	11/14/15 09:01	
Bromochloromethane	ug/L	<0.34	1.0	11/14/15 09:01	
Bromodichloromethane	ug/L	<0.50	1.0	11/14/15 09:01	
Bromoform	ug/L	<0.50	1.0	11/14/15 09:01	
Bromomethane	ug/L	<2.4	5.0	11/14/15 09:01	
Carbon tetrachloride	ug/L	<0.50	1.0	11/14/15 09:01	
Chlorobenzene	ug/L	<0.50	1.0	11/14/15 09:01	
Chloroethane	ug/L	<0.37	1.0	11/14/15 09:01	
Chloroform	ug/L	<2.5	5.0	11/14/15 09:01	
Chloromethane	ug/L	<0.50	1.0	11/14/15 09:01	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	11/14/15 09:01	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	11/14/15 09:01	
Dibromochloromethane	ug/L	<0.50	1.0	11/14/15 09:01	
Dibromomethane	ug/L	<0.43	1.0	11/14/15 09:01	
Dichlorodifluoromethane	ug/L	<0.22	1.0	11/14/15 09:01	
Diisopropyl ether	ug/L	<0.50	1.0	11/14/15 09:01	
Ethylbenzene	ug/L	<0.50	1.0	11/14/15 09:01	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

METHOD BLANK: 1257644 Matrix: Water
Associated Lab Samples: 40124486001, 40124486002, 40124486003, 40124486004, 40124486005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	11/14/15 09:01	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	11/14/15 09:01	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	11/14/15 09:01	
Methylene Chloride	ug/L	<0.23	1.0	11/14/15 09:01	
n-Butylbenzene	ug/L	<0.50	1.0	11/14/15 09:01	
n-Propylbenzene	ug/L	<0.50	1.0	11/14/15 09:01	
Naphthalene	ug/L	<2.5	5.0	11/14/15 09:01	
p-Isopropyltoluene	ug/L	<0.50	1.0	11/14/15 09:01	
sec-Butylbenzene	ug/L	<2.2	5.0	11/14/15 09:01	
Styrene	ug/L	<0.50	1.0	11/14/15 09:01	
tert-Butylbenzene	ug/L	<0.18	1.0	11/14/15 09:01	
Tetrachloroethene	ug/L	<0.50	1.0	11/14/15 09:01	
Toluene	ug/L	<0.50	1.0	11/14/15 09:01	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	11/14/15 09:01	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	11/14/15 09:01	
Trichloroethene	ug/L	<0.33	1.0	11/14/15 09:01	
Trichlorofluoromethane	ug/L	<0.18	1.0	11/14/15 09:01	
Vinyl chloride	ug/L	<0.18	1.0	11/14/15 09:01	
Xylene (Total)	ug/L	<1.5	3.0	11/14/15 09:01	
4-Bromofluorobenzene (S)	%	96	70-130	11/14/15 09:01	
Dibromofluoromethane (S)	%	99	70-130	11/14/15 09:01	
Toluene-d8 (S)	%	100	70-130	11/14/15 09:01	

LABORATORY CONTROL SAMPLE: 1257645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.5	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.5	101	70-130	
1,1,2-Trichloroethane	ug/L	50	51.7	103	70-130	
1,1-Dichloroethane	ug/L	50	50.3	101	70-130	
1,1-Dichloroethene	ug/L	50	51.6	103	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.9	90	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	52.0	104	70-130	
1,2-Dichlorobenzene	ug/L	50	54.4	109	70-130	
1,2-Dichloroethane	ug/L	50	52.2	104	70-131	
1,2-Dichloropropane	ug/L	50	55.6	111	70-130	
1,3-Dichlorobenzene	ug/L	50	53.3	107	70-130	
1,4-Dichlorobenzene	ug/L	50	53.2	106	70-130	
Benzene	ug/L	50	52.3	105	70-130	
Bromodichloromethane	ug/L	50	53.7	107	70-130	
Bromoform	ug/L	50	49.9	100	68-130	
Bromomethane	ug/L	50	43.5	87	38-137	
Carbon tetrachloride	ug/L	50	53.2	106	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

LABORATORY CONTROL SAMPLE: 1257645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	54.8	110	70-130	
Chloroethane	ug/L	50	40.8	82	70-136	
Chloroform	ug/L	50	54.7	109	70-130	
Chloromethane	ug/L	50	35.5	71	48-144	
cis-1,2-Dichloroethene	ug/L	50	58.2	116	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.4	99	70-130	
Dibromochloromethane	ug/L	50	53.6	107	70-130	
Dichlorodifluoromethane	ug/L	50	36.7	73	33-157	
Ethylbenzene	ug/L	50	54.7	109	70-132	
Isopropylbenzene (Cumene)	ug/L	50	55.4	111	70-130	
Methyl-tert-butyl ether	ug/L	50	48.4	97	48-141	
Methylene Chloride	ug/L	50	52.4	105	70-130	
Styrene	ug/L	50	50.6	101	70-130	
Tetrachloroethene	ug/L	50	50.5	101	70-130	
Toluene	ug/L	50	53.7	107	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.2	104	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.3	99	70-130	
Trichloroethene	ug/L	50	55.3	111	70-130	
Trichlorofluoromethane	ug/L	50	50.5	101	50-150	
Vinyl chloride	ug/L	50	46.2	92	65-142	
Xylene (Total)	ug/L	150	163	109	70-132	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1259001 1259002

Parameter	Units	40124472001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	59.0	55.9	118	112	70-130	5	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	49.7	49.5	99	99	70-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	51.4	53.0	103	106	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	53.2	50.8	106	102	70-134	5	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	54.5	51.6	109	103	70-139	5	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	49.2	50.2	98	100	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	42.4	43.7	85	87	50-150	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.5	51.7	105	103	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	53.4	53.1	107	106	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	55.5	53.6	111	107	70-132	3	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	56.2	56.1	112	112	70-130	0	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	53.0	53.9	106	108	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	53.8	53.5	107	107	70-130	1	20	
Benzene	ug/L	<0.50	50	50	54.4	52.4	108	104	70-130	4	20	
Bromodichloromethane	ug/L	<0.50	50	50	55.8	54.1	112	108	70-132	3	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

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1259001 1259002

Parameter	Units	40124472001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromoform	ug/L	<0.50	50	50	49.5	49.2	99	98	68-130	1	20	
Bromomethane	ug/L	<2.4	50	50	46.6	46.4	93	93	38-141	0	20	
Carbon tetrachloride	ug/L	<0.50	50	50	55.3	53.0	111	106	70-130	4	20	
Chlorobenzene	ug/L	<0.50	50	50	56.0	54.2	112	108	70-130	3	20	
Chloroethane	ug/L	<0.37	50	50	41.9	40.6	84	81	66-152	3	20	
Chloroform	ug/L	<2.5	50	50	54.2	53.6	108	107	70-130	1	20	
Chloromethane	ug/L	<0.50	50	50	34.9	33.3	70	67	44-151	5	20	
cis-1,2-Dichloroethene	ug/L	61.8	50	50	111	129	98	134	70-130	15	20	M1
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	51.7	50.0	103	100	70-130	3	20	
Dibromochloromethane	ug/L	<0.50	50	50	54.6	53.7	109	107	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	36.3	34.1	73	68	29-160	6	20	
Ethylbenzene	ug/L	<0.50	50	50	56.1	54.4	112	109	70-132	3	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	57.5	55.8	115	112	70-130	3	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	49.6	47.4	99	95	48-143	5	20	
Methylene Chloride	ug/L	<0.23	50	50	54.0	50.4	108	101	70-130	7	20	
Styrene	ug/L	<0.50	50	50	51.3	51.2	103	102	70-130	0	20	
Tetrachloroethene	ug/L	4.2	50	50	58.2	57.0	108	105	70-130	2	20	
Toluene	ug/L	<0.50	50	50	54.9	53.4	110	107	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	1.1	50	50	54.4	52.6	107	103	70-132	3	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	51.4	50.7	103	101	70-130	1	20	
Trichloroethene	ug/L	2.2	50	50	59.2	58.4	114	112	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	51.4	49.1	103	98	50-153	4	20	
Vinyl chloride	ug/L	1.0	50	50	48.0	46.7	94	91	60-155	3	20	
Xylene (Total)	ug/L	<1.5	150	150	167	164	111	109	70-132	2	20	
4-Bromofluorobenzene (S)	%						100	100	70-130			
Dibromofluoromethane (S)	%						100	98	70-130			
Toluene-d8 (S)	%						100	102	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

DEFINITIONS

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

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: T215-030 MGE-LIVINGSTON
Pace Project No.: 40124486

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40124486001	**MGE-1**	EPA 8260	MSV/31232		
40124486002	**MGE-4**	EPA 8260	MSV/31232		
40124486003	**MGE-6**	EPA 8260	MSV/31232		
40124486004	**MGE-9**	EPA 8260	MSV/31232		
40124486005	**MGE-11**	EPA 8260	MSV/31232		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

4012448G

(Please Print Clearly)	
Company Name:	TRUE NORTH CONSULTANTS, INC.
Branch/Location:	MADISON, WI
Project Contact:	CHRIS VALCHEFF
Phone:	608-577-8315
Project Number:	T215-030
Project Name:	MGE - LIVINGSTON STREET YARD
Project State:	WI
Sampled By (Print):	CHRIS VALCHEFF
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	CHRIS VALCHEFF
Mail To Company:	TRUE NORTH CONSULTANTS, INC.
Mail To Address:	525 JUNCTION ROAD STE. 1900 MADISON, WI 53713
Invoice To Contact:	AS ABOVE
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

***Preservation Codes**
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOCs	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MGE-1	11/9/15	08:35	GW		N / B	X		3-40ml V B	
002	MGE-4	11/9/15	10:00	GW			X			
003	MGE-6	11/9/15	10:40	GW			X			
004	MGE-9	11/9/15	12:15	GW			X			
005	MGE-11	11/9/15	13:10	GW			X	TWO VOAs ONLY	2-40ml V B	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	11/10/15	WALTCO	11/10/15
WALTCO	11/11/15 0835	Price Price	11/11/15 0835

PACE Project No.: 4012448G

Receipt Temp = 2 °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: Present / Not Present (Not Present) Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: WO# : 40124486

40124486

Client Name: True North

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace ☐ Other: Walco

Tracking #: 412 786 -1

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

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR04 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2 /Corr: 2 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 11/11/15
Initials: RC

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☒N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	14.
Trip Blank Present:	☐Yes	☒No	☐N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AWH for DM **Date:** 11/11/15