

COLEMAN ENGINEERING COMPANY

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kel
put on BRRTS
11/2/13
(43)

November 6, 2013

Mr. Thomas Bergman
Iron County Zoning Administrator
300 Taconite Street
Hurley, WI 54534-1546

RE: Soil and Groundwater Monitoring Event
Former Thomas Service Station
Montreal, Wisconsin
DNR BRRTS #03-26-000788

Dear Mr. Bergman,

Coleman Engineering Company (CEC) has performed a scope of work authorized by the Wisconsin Department of Natural Resources (DNR) and the Wisconsin Department of Safety and Professional Services (DSPS) at the former Thomas Service Station, 55 Wisconsin Avenue, Montreal, Wisconsin (Subject Property). DNR and DSPS correspondence regarding the work is included in Attachment A. The work, which included soil sampling and groundwater monitoring, is associated with the DNR listed Leaking Underground Storage Tank (LUST) site at the Subject Property. This work is funded by the DSPS administrated Petroleum Environmental Cleanup Fund Award (PECFA) in accordance with Usual and Customary Standardized Invoice – Schedule #11. Attached please find the following:

- Attachment A – DNR and DSPS Correspondence
- Attachment B – Soil Information
 - Soil Sample Location Map
 - Soil Analytical Summary Tables
 - Analytical Laboratory Reports
- Attachment C – Groundwater Information
- Attachment D – Soil Boring Logs
 - Groundwater Elevation Table
 - Groundwater Contour Map
 - Groundwater Analytical Summary Tables
 - Analytical Laboratory Reports
- Attachment E – Purge Water Disposal Documentation

Previous work performed by CEC at the Subject Property included:

- July 2010 Phase I Environmental Site Assessment (ESA) described recognized environmental conditions (RECs) including the Former Thomas Service LUST site and the existence of two (2) underground storage tanks (USTs) still located on the Subject Property.
- March 2011 Phase II ESA which found 6-8 feet of fill, peat and red clay till over slate bedrock. Soil impact appeared to be limited to the former dispenser area, with some highly elevated petroleum volatile organic compound (PVOC) concentrations in that area. All samples collected for laboratory analysis were from between 4 feet and 8 feet below ground surface (BGS). The removal of two (2) USTs from the Subject Property was documented in the Phase II ESA.
- October 2011 Phase II ESA Addendum, four (4) permanent monitoring wells were installed, found groundwater approximate 4 feet BGS flowing in a westerly direction toward the West Branch of the Montreal River and limited impact to groundwater quality.

The purpose of this work authorized by DNR and DSPS is to assess the shallow surface soil with regard to direct contact and assess current groundwater conditions.

AUGUST 2012 SOIL SAMPLING EFFORTS

CEC mobilized a Geoprobe direct push soil probe to the Subject Property on August 27, 2012. Probe borings were performed at two (2) locations using a macrocore device which collected a soil core from the ground surface to a depth of 4 feet BGS. One (1) boring (SS-1) was located near the former UST location; the other boring (SS-2) was located at the former pump island. Soil boring logs are located in Attachment C. A soil sample was collected from each core from approximately 1 to 2 feet BGS and preserved for laboratory analysis of PVOC and polycyclic aromatic hydrocarbons (PAH). The soil samples were submitted to Pace Analytical in Green Bay, Wisconsin. The following tables summarize the laboratory results and display Wisconsin Administrative Code (WAC) NR 720, NR 746 and published residual contaminant levels (RCLs).

PVOC ANALYSIS RESULTS

Sample Identification	SS-1	SS-2	Generic RCL - Direct Contact Pathway	
			Non-Industrial	Industrial
Sample Date	8/27/12	8/27/12		
Sample Depth	1-2'	1-2'		
Benzene	<5000*	<5050*	1,490	7,410
Ethylbenzene	112,000	131,000	7,470	37,000
Methyl-tert-butyl ether	<5000	<5,050	59,400	293,000
Toluene	8,450J	148,000	818,000	818,000
1,2,4 Trimethylbenzene	1,320,000	1,460,000	89,800	219,000
1,3,5 Trimethylbenzene	435,000	499,000	182,000	182,000
Total Xylene	1,856,000	2,012,000	258,000	258,000

All results and RCLs in micrograms per kilogram, µg/kg

Bold result indicates RCL exceedance

The NR 746 protection of human health from direct contact for benzene is 1,490 µg/kg

*Laboratory method detection limit elevated due to dilution factor resulting from high concentrations of other PVOCs

PAH ANALYSIS RESULTS

Sample Identification	SS-1	SS-2	Generic RCL - Direct Contact Pathway	
			Non- industrial	Industrial
Sample Date	8/27/12	8/27/12		
Sample Depth	1-2'	1-2'		
Chrysene	250J	<880	8,800	390,000
1-Methylnaphthalene	15,400	69,400	1,100,000	70,000,000
2-Methylnaphthalene	31,800	147,000	600,000	40,000,000
Naphthalene	35,600	153,000	5,150	110,000
Phenanthrene	383J	1,310J	na	na
Pyrene	395J	<3,870	500,000	30,000,000

All results and RCLs in micrograms per kilogram, µg/kg
RCL- residual contaminant level
Bold result indicates Direct Contact RCL exceedance
Direct Contact Pathway and Groundwater Pathway are generic RCLs from DNR publication RR-519-97

A review of both soil sample results indicate extremely elevated concentrations of several PVOC compounds (ethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and xylenes) that exceed Wisconsin Administrative Code (WAC) NR 746 residual contaminant levels (RCL) for direct contact. Due to the elevated levels of several PVOC compounds, the laboratory detection level for benzene was also elevated greater than the WAC NR 746 direct contact RCL. The PAH results are also elevated with 1-methylnaphthalene; 2-methylnaphthalene and naphthalene exceeding the DNR published generic RCL for direct contact.

Summary tables of all soil sample analysis, laboratory reports from the August 2012 samples and a sample location map are included as Attachment B.

AUGUST 2012 GROUNDWATER MONITORING

Groundwater underlying the Subject Property is approximately 5 feet BGS flowing in a northwesterly direction. Groundwater samples were collected on August 27, 2012 from each of the four (4) wells installed at the site. Disposable bailers were utilized at each well for well purging and sample collection. Purge water was drummed for pickup and disposal by Wausau Chemical. The groundwater samples were submitted to Pace Analytical, Green Bay, Wisconsin for analysis of PVOC and PAH. The following table summarizes laboratory results. The tables also compare the analytical results WAC NR 140 Preventive Action Limits (PALs) and Enforcement Standard (ES) for groundwater.

PVOC GROUNDWATER ANALYTICAL RESULTS

Sample Identification	MW-1	MW-2	MW-3	MW-4	NR 140 PAL/ES
	8/27/12	8/27/12	8/27/12	8/27/12	
Benzene	<0.39	<0.39	<0.39	7.4	0.5/5
Ethylbenzene	<0.41	<0.41	<0.41	37.5	140/700
Methyl-tert-butyl ether	<0.38	<0.38	<0.38	0.58J	12/60
Toluene	<0.42	<0.42	<0.42	0.74J	200/1000
1,2,4 Trimethylbenzene	<0.43	<0.43	<0.43	37.5	14/70
1,3,5 Trimethylbenzene	<0.40	<0.40	<0.40	18.2	NS
Total Xylene	<1.25	<1.25	<1.25	60.1	1000/10000

PAH GROUNDWATER ANALYSIS RESULTS

Sample Identification	MW-1	MW-2	MW-3	MW-4	NR 140 PAL/ES
Sample Date	8/27/12	8/27/12	8/27/12	8/27/12	
Acenaphthlene	0.025J	0.0057J	0.0045J	0.030J	NS
Acenaphthylene	0.0060J	<0.0029	<0.0029	<0.0029	NS
Anthracene	0.0098J	<0.0026	0.0044J	<0.0026	NS
Benzo(a)anthracene	<0.0042	<0.0042	<0.0042	<0.0042	NS
Benzo(a)pyrene	<0.0042	<0.0042	<0.0042	<0.0042	0.02/0.2
Benzo(b)flouranthene	<0.0045	<0.0045	<0.0045	<0.0045	0.02/0.2
Benzo(g,h,i)perylene	<0.0053	<0.0053	<0.0053	<0.0053	NS
Benzo(k)flouranthene	<0.0047	<0.0047	<0.0047	<0.0047	NS
Chrysene	0.0061J	<0.0046	<0.0046	<0.0046	0.02/0.2
Diebenzo(a,h)anthracene	<0.0089	<0.0089	<0.0089	<0.0089	NS
Flouranthene	0.0094J	0.0036J	0.0093J	<0.032	80/400
Flourene	0.043J	<0.0029	0.011J	<0.029	80/400
Indeno(1,2,3c-d)pyrene	<0.0052	<0.0052	<0.0052	<0.052	NS
1-methylnaphthalene	0.0092J	<0.0044	<0.0044	1.2	NS
2-methylnaphthalene	<0.0046	0.0047J	<0.0046	0.99	NS
Naphthalene	0.032J	0.032J	0.021J	3.4	10/100
Phenanthrene	0.098J	0.0088J	0<0.0081	<0.081	NS
Pyrene	0.018J	0.0055J	0.030J	<0.041	50/250

All results and PAL/ES reported in micrograms/liter µg/l
Nr 140 Preventative Action Limit (PAL) and Enforcement Standard (ES)

Groundwater sample analytical results indicate that only MW-4 displays slight WAC NR 140 ES or PAL exceedances. These exceedances are an ES for benzene (result 7.4 µg/l; ES 5.0 µg/l) and a PAL for 1,2,4 trimethylbenzene (result 37.5 µg/l; PAL 14 µg/l) both in MW-4. There are no PAL/ES exceedances for any PAH compounds.

Summary tables of all groundwater sample analysis, laboratory reports from the August 2012 samples and a groundwater elevation table and a monitoring location map with groundwater contours are included as Attachment C. Purge water disposal documentation is included in Attachment D.

CONCLUSIONS

The purpose of this soil and groundwater monitoring effort had two (2) objectives:

- Assess the shallow surface soil, from ground surface to a depth of 4 feet BGS, with regard to direct contact.
- Assess the current groundwater conditions.

For this effort two (2) shallow surface soil samples, SS-1 and SS-2, were retrieved from 1 to 2 feet BGS from near the former gas dispenser island. The PVOC laboratory analysis results show extremely high levels of several PVOCs; greater than 4,250,000 µg/kg total PVOC in Sample SS-2. Due to the elevated levels of several PVOC compounds, the laboratory method detection level for benzene was also elevated to greater than 5,000 µg/kg. This is greater than

the WAC NR 746 direct contact RCL of 1,490 µg/kg. It could be presumed the benzene concentration in the near surface soil does exceed 1,490 µg/kg in both samples. The PAH results are also elevated with several compounds exceeding the DNR published generic RCL for direct contact included in DNR Publication RR-519-97.

Groundwater does not appear to be highly impacted at the Subject Property. There is a low level NR 140 ES exceedance of benzene ES and a PAL exceedance of 1, 2, 4 trimethylbenzene in MW-4. Well MW-4 is located in the area of greatest impact to soil observed at the Subject Property.

The impact to soil and groundwater appears to be limited to an area around the former gas dispenser island. Some soil is highly contaminated, groundwater is slightly contaminated. The closest receptors such as buildings are more than 300 feet from the area of impact. Other receptors such as underground utilities and the West Branch of the Montreal River are approximately 100 feet from the area of impact. The entire area is on a municipal water system. These receptors will most likely not be impacted by the contamination of the Subject Property. As there is highly contaminated soil, including above a generic direct contact RCL, at 1 to 2 feet BGS and this is publicly owned property where human direct contact could occur at the impact area.

RECOMMENDATIONS

Due to the potential direct contact to human health from highly contaminated soil within 1 to 2 feet of the ground surface on this publicly owned property, it is recommended to perform a remedial action by means of a limited source reduction. This can be accomplished by removing (excavating) and disposing of the highly contaminated soil on the Subject Property. This area is approximately 30 feet by 30 feet by 5 to 6 feet deep, estimated to be approximately 400 to 500 tons of soil. After the excavation, groundwater should be monitored for four (4) quarters to insure success of the remedial action.

5.0 LIMITATIONS

There are limitations inherent to the environmental investigation process. No environmental investigation can wholly eliminate uncertainty regarding actual environmental conditions of the subject study area(s). This is because when dealing with existing conditions that are hidden from view, affected by time, changes in state and other limitations, it would require a substantial level of financial and technical effort in order to remove all of the uncertainty associated with a Subject Property evaluation.

It must be understood that the laboratory results and the conclusions drawn from the results have inherent limitations and uncertainty. The limitations and uncertainty exist when Subject Property samples are collected and laboratory analyzed for the purpose of representing existing Subject Property conditions. Although special care is taken in the field to assure adequate sampling, the laboratory analytical results of those samples are most representative of the exact location of where the samples were collected. The results, however, are used as a basis for demonstrating existing conditions, when in fact the overall actual conditions may be different.

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November 6, 2013

If you have any questions, please do not hesitate to contact me in our Iron Mountain Office at (906) 774-3440. If I am not available, please ask to speak to Mr. David Schmutzler, Environmental Manager.

Sincerely,

COLEMAN ENGINEERING COMPANY

A handwritten signature in black ink, appearing to read "Charles A. Saari". The signature is fluid and cursive, with the first name "Charles" being the most prominent.

Charles A. Saari, CPG, CP
Geological Engineer

CAS/pb
Enclosure
cc: Philip Richard, WDNR
CEC Job # EE-10201

F:\Data\10000\10201 - Iron County WI - Thomas Service Phase 1 ESA\PECFA Funded\Site Investigation\Status Letter 11-13.docx

DNR CORRESPONDENCE

ATTACHMENT A



STATE OF WISCONSIN
Department of Safety and Professional Services

Mail to:
375 City Center, Suite 1
Oshkosh, Wisconsin 54901-1805
TTY: (608) 267-2416
Fax: (920) 424-0217
Email: dspd@wisconsin.gov
Web: <http://dspd.wi.gov>

Governor Scott Walker

Secretary Dave Ross

June 14, 2012

Mr. Thomas Bergman
Iron County Zoning Administrator
300 Taconite Street
Hurley, WI 54534

RE: Public Bidding Deferred – Cost Cap Approved

PECFA # 54550-9999-00-A DNR BRRTS # 03-26-000788
Thomas Service Station (Former), 55 Wisconsin Avenue, Montreal

On June 13, 2012, the Wisconsin Department of Safety and Professional Services (DPS) received a scope of work (SOW) and cost estimate utilizing the SPS 347, Wisconsin Administrative Code, Usual and Customary Cost Schedule (Cost Schedule) for the site referenced above.

DPS has determined that the submitted SOW is reasonable and **approves** the additional costs. This site will be deferred from the public bidding process at this time. DPS will contact you if this site will be bid in the future. Costs approved are to advance two soil probes, collect soil samples, collect a round or groundwater samples from all site monitoring wells, dispose of investigative waste, provide the results in tabular format and update the site maps. A copy of the DPS worksheet for the Cost Schedule tasks is enclosed for your reference.

Deferment Cost Cap Approved:

\$ 4,145.60

Be reminded that annual web reports are required until this case is closed.

Usual and customary costs for activities included in this approval will only be reimbursed at a rate equal to or less than what is allowed on the Cost Schedule, and are reimbursed based upon the Cost Schedule that is in effect at the time the activity is performed. Costs for activities not included in this approval are not reimbursable without prior DPS authorization.

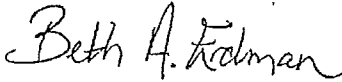
Regulatory Correspondence (Task 7, Activity RC05), Claim Submittal (Task 27, Activity CS05) and Standardized Invoice (Task 28, Activity SI05) costs are not included in the cap approved above. These activities will be reimbursed according to the task specifications and with submittal of proper supporting documentation at claim review time.

DPS considers the consultant the primary controller of costs during these activities. This approval does not guarantee eligibility of any specific costs that have been incurred or that may be incurred in the future. Final determination regarding the eligibility of costs will be made by the claim reviewer when the entire claim, including all invoices and reports, is submitted for payment.

Note: If you have not submitted a reimbursement claim in the past 12 months, DPS encourages you to do so at this time. In the future, we may review your claim submittal history and require a claim. Failure to submit a claim at that time would result in denial of reimbursement for corresponding interest costs. If you need a claim packet or would like assistance with filing your claim, please contact Renee' Dickey at (608) 264-8765.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (920) 303-5410.

Sincerely,



Beth A. Erdman
Hydrogeologist
Site Review Section

Enclosure: Usual and Customary Cost Schedule Worksheet

cc: John Hunt-Coleman Engineering Company
Philip Richard-DNR (electronic)

Usual & Customary Cost Schedule Worksheet #11 (effective January 1, 2012)

PECFA #:	54550-9999-00	<table border="1"> <tr> <td>Grand Total</td> </tr> <tr> <td>\$4,146.60</td> </tr> </table>	Grand Total	\$4,146.60
Grand Total				
\$4,146.60				
Site Name:	Thomas Service Station (Former)			
Site Address:	55 Wisconsin Ave., Montreal			
Date:	June 14, 2012			

Task	Provider	Ref. Code	Activity Reference Code	Description	Units	Unit Cost	Total Cost	Notes
1		GS05		Sample Collection	Well	4	\$69.00	\$ 276.00
1		GS25		Primary Mob/Demob	Site	1	\$598.20	\$ 598.20
4	Consultant	WD05		Consultant Coordination	Site	1	\$130.60	\$ 130.60
4	Commodity	WD10		Groundwater Sample and/or Purge	Drum	1	\$40.10	\$ 40.10
4	Commodity	WD25		Primary Mob/Demob	Site	1	\$274.00	\$ 274.00
6		LRA05		Letter Report/Addendum	Letter	1	\$989.80	\$ 989.80
12	Consultant	DP05		0 - 24 ft bgs W/ Continuous Soil Sampling	ft	8	\$5.10	\$ 40.80
12	Commodity	DP35		0 - 24 ft bgs W/ Continuous Soil Sampling	ft	8	\$6.60	\$ 52.80
12	Commodity	DP55		Expendable Drive Point	Each	2	\$13.80	\$ 27.60
12	Commodity	DP60		Borehole Abandonment	ft	8	\$1.20	\$ 9.60
12	Commodity	DP80		Mob/Demob (Includes Decor)	Site	1	\$501.00	\$ 501.00
33	Schedule of Laboratory Maximums							
33	Water Sample	Laboratory	W2	PVOC	Sample	4	\$25.70	\$ 102.80
33	Water Sample	Laboratory	W6	PAH	Sample	4	\$69.50	\$ 278.00
33	Soil Sample	Laboratory	S4	PVOC	Sample	2	\$24.60	\$ 49.20
33	Soil Sample	Laboratory	S9	PAH	Sample	2	\$69.50	\$ 139.00
34	Consultant Incremental Mob/Demob	Consultant	IMD05	Incremental Mob/Demob	Site	1	\$273.50	\$ 273.50
36	Change Order Request		COR05	Change Order Request	Change Order	1	\$363.60	\$ 363.60
							Grand Total	\$ 4,146.60

ATTACHMENT B

SOIL INFORMATION

- Soil Sample Location Map
- Soil Sample Summary Tables
- Analytical Laboratory Reports

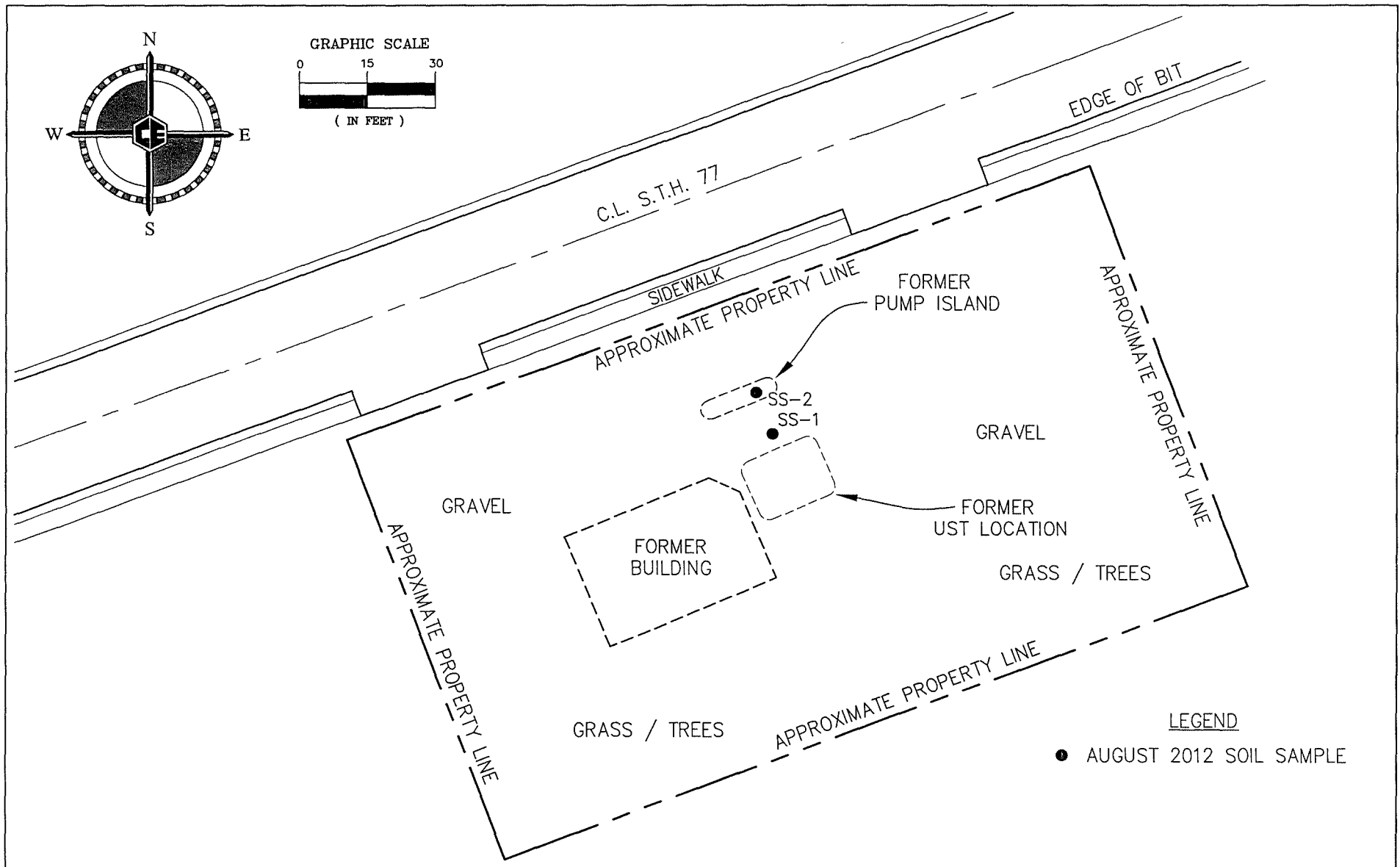


FIGURE 1
2012 SOIL SAMPLE LOCATIONS
FORMER THOMAS SERVICE STATION
MONTREAL, WISCONSIN



COLEMAN ENGINEERING COMPANY
 635 CIRCLE DRIVE - IRON MOUNTAIN, MICHIGAN 49801 (906) 774-3440
 200 EAST AYER STREET - IRONWOOD, MICHIGAN 49938 (906) 932-5048

DATE 9/25/12
 JOB NO 10201
 CADD FILE 10201-ALL SAMPLE LOC
 PDF FILE 10201-2012 SAMPLE LOC

**FORMER THOMAS SERVICE STATION
LABORATORY RESULTS**

**TABLE 1
SOIL SAMPLE ANALYSIS RESULTS**

Sample Identification	NR 846 RCL	North Tank Pit	South Tank Pit	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	SS-1	SS-2
Sample Date		9/16/10	9/16/10	11/17/10	11/17/10	11/17/10	11/17/10	11/17/10	11/17/10	11/17/10	11/17/10	11/17/10	8/27/12	8/27/12
Sample Depth		6'	6'	4-5'	4-5'	4-5'	4-5'	4-5'	4-5'	4-5'	4-5'	4-5'		
Benzene	1,490	<100	<25	<1,250	<1,250	<25	<25.3	<25	<25.5	<26.3	<500	<25	<5,000	<5,050
Ethylbenzene	7,470	<100	<25	15,000	30,800	<25	<25.3	<25	<25.5	<26.3	8,830	<25	112,000	131,000
Methyl-tert-butyl ether	59,400	<100	<25	<1,250	<1,250	<25	<25.3	<25	<25.5	<26.3	<500	<25	<5,000	<5,050
Toluene	818,000	207J	<25	<1,250	5,560	<25	<25.3	<25	<25.5	<26.3	721J	<25	8,450J	148,000
1,2,4 Trimethylbenzene	89,800	2,460	<25	111,000	211,000	<25	<25.3	<25	<25.5	<26.3	94,800	<25	1,320,000	1,460,000
1,3,5 Trimethylbenzene	182,000	1,950	<25	50,700	85,300	<25	<25.3	75	<25.5	<26.3	42,200	<25	435,000	499,000
Total Xylene	258,000	894	<50	913,000	200,200	<50	<50.5	<50	<51	<82.5	57,300	<50	1,856,000	2,012,000
Naphthalene	20,000	na	na	10,000	17,300	<25	<25.3	<25	<25.5	<26.3	7,450	<25	NA	NA

PAHs

Acenaphthene	3,440,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<371	<3,870
Acenaphthylene	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<371	<3,870
Anthracene	17,200,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<76	<793
Benzo(a)anthracene	148	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<371	<3,870
Benzo(a)pyrene	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<371	<3,870
Benzo(b)fluoranthene	148	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<371	<1,120
Benzo(g,h,i)perylene	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<371	<3,870
Benzo(k)fluoranthene	1,480	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<371	<3,870
Chrysene	14,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250J	<880
Dibenz(a,h)anthracene	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<371	<3,870
Flouranthene	2,290,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<371	<3,870
Flourene	2,290,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<371	<3,870
Indeno(1,2,3-cd)pyrene	148	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<371	<3,870
1-Methylnaphthalene	15,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15,400	69,400
2-Methylnaphthalene	229,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31,800	147,000
Naphthalene	5,150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35,600	153,000
Phenanthrene	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	383J	1,310J
Pyrene	500,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	395J	<3,870

NOTES:

All concentrations in micrograms per kilogram (µg/kg)

NA - Not Analyzed for

NS - No Standard

J-laboratory footnote concentration estimated

NR 720 RCL- Residual Contaminant Level from WI Administrative Code NR 720.11 from WI Administrative Code NR 141

NR 141 PAL/ES - Preventative Action Level/Enforcement Standard from WI Administrative Code NR 140.10 Table 1.

BOLD results indicate regulatory standard exceedance

September 04, 2012

John Hunt
COLEMAN ENGINEERING
635 Circle Drive
Iron Mountain, MI 49801

RE: Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066097

Dear John Hunt:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2012. 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,



Steven Mleczko

steve.mleczko@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066097

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

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Page 2 of 12

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SAMPLE SUMMARY

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066097

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4066097001	SS-1	Solid	08/27/12 12:30	08/29/12 08:15
4066097002	SS-2	Solid	08/27/12 12:45	08/29/12 08:15

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066097

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4066097001	SS-1	WI MOD GRO	LCM	9	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	KMF	1	PASI-G
4066097002	SS-2	WI MOD GRO	LCM	9	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		ASTM D2974-87	KMF	1	PASI-G

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066097

Sample: SS-1 Lab ID: 4066097001 Collected: 08/27/12 12:30 Received: 08/29/12 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Benzene	<5000	ug/kg	12000	5000	200	08/30/12 06:21	08/30/12 14:40	71-43-2	W
Ethylbenzene	112000	ug/kg	13400	5570	200	08/30/12 06:21	08/30/12 14:40	100-41-4	
Methyl-tert-butyl ether	<5000	ug/kg	12000	5000	200	08/30/12 06:21	08/30/12 14:40	1634-04-4	W
Toluene	8450J	ug/kg	13400	5570	200	08/30/12 06:21	08/30/12 14:40	108-88-3	
1,2,4-Trimethylbenzene	1320000	ug/kg	13400	5570	200	08/30/12 06:21	08/30/12 14:40	95-63-6	
1,3,5-Trimethylbenzene	435000	ug/kg	13400	5570	200	08/30/12 06:21	08/30/12 14:40	108-67-8	
m&p-Xylene	1270000	ug/kg	26700	11100	200	08/30/12 06:21	08/30/12 14:40	179601-23-1	
o-Xylene	586000	ug/kg	13400	5570	200	08/30/12 06:21	08/30/12 14:40	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	127 %		80-120		200	08/30/12 06:21	08/30/12 14:40	98-08-8	S7
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	<371	ug/kg	742	371	20	08/30/12 07:36	08/31/12 17:56	83-32-9	
Acenaphthylene	<371	ug/kg	742	371	20	08/30/12 07:36	08/31/12 17:56	208-96-8	
Anthracene	<76.0	ug/kg	742	76.0	20	08/30/12 07:36	08/31/12 17:56	120-12-7	
Benzo(a)anthracene	<371	ug/kg	742	371	20	08/30/12 07:36	08/31/12 17:56	56-55-3	
Benzo(a)pyrene	<371	ug/kg	742	371	20	08/30/12 07:36	08/31/12 17:56	50-32-8	
Benzo(b)fluoranthene	<107	ug/kg	742	107	20	08/30/12 07:36	08/31/12 17:56	205-99-2	
Benzo(g,h,i)perylene	<371	ug/kg	742	371	20	08/30/12 07:36	08/31/12 17:56	191-24-2	
Benzo(k)fluoranthene	<371	ug/kg	742	371	20	08/30/12 07:36	08/31/12 17:56	207-08-9	
Chrysene	250J	ug/kg	742	84.3	20	08/30/12 07:36	08/31/12 17:56	218-01-9	
Dibenz(a,h)anthracene	<371	ug/kg	742	371	20	08/30/12 07:36	08/31/12 17:56	53-70-3	
Fluoranthene	<371	ug/kg	742	371	20	08/30/12 07:36	08/31/12 17:56	206-44-0	
Fluorene	<371	ug/kg	742	371	20	08/30/12 07:36	08/31/12 17:56	86-73-7	
Indeno(1,2,3-cd)pyrene	<371	ug/kg	742	371	20	08/30/12 07:36	08/31/12 17:56	193-39-5	
1-Methylnaphthalene	15400	ug/kg	742	339	20	08/30/12 07:36	08/31/12 17:56	90-12-0	
2-Methylnaphthalene	31800	ug/kg	742	69.6	20	08/30/12 07:36	08/31/12 17:56	91-57-6	
Naphthalene	35600	ug/kg	742	140	20	08/30/12 07:36	08/31/12 17:56	91-20-3	
Phenanthrene	383J	ug/kg	742	94.7	20	08/30/12 07:36	08/31/12 17:56	85-01-8	
Pyrene	395J	ug/kg	742	371	20	08/30/12 07:36	08/31/12 17:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0 %		43-130		20	08/30/12 07:36	08/31/12 17:56	321-60-8	S4
Terphenyl-d14 (S)	0 %		32-130		20	08/30/12 07:36	08/31/12 17:56	1718-51-0	S4
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.2 %		0.10	0.10	1		08/29/12 16:02		

ANALYTICAL RESULTS

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066097

Sample: SS-2 Lab ID: 4066097002 Collected: 08/27/12 12:45 Received: 08/29/12 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Benzene	<5050	ug/kg	12100	5050	200	08/30/12 06:21	08/30/12 15:06	71-43-2	W
Ethylbenzene	131000	ug/kg	14100	5870	200	08/30/12 06:21	08/30/12 15:06	100-41-4	
Methyl-tert-butyl ether	<5050	ug/kg	12100	5050	200	08/30/12 06:21	08/30/12 15:06	1634-04-4	W
Toluene	148000	ug/kg	14100	5870	200	08/30/12 06:21	08/30/12 15:06	108-88-3	
1,2,4-Trimethylbenzene	1460000	ug/kg	14100	5870	200	08/30/12 06:21	08/30/12 15:06	95-63-6	
1,3,5-Trimethylbenzene	499000	ug/kg	14100	5870	200	08/30/12 06:21	08/30/12 15:06	108-67-8	
m&p-Xylene	1370000	ug/kg	28200	11700	200	08/30/12 06:21	08/30/12 15:06	179601-23-1	
o-Xylene	642000	ug/kg	14100	5870	200	08/30/12 06:21	08/30/12 15:06	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	125 %		80-120		200	08/30/12 06:21	08/30/12 15:06	98-08-8	S7
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	<3870	ug/kg	7750	3870	400	08/30/12 07:36	08/31/12 17:38	83-32-9	
Acenaphthylene	<3870	ug/kg	7750	3870	400	08/30/12 07:36	08/31/12 17:38	208-96-8	
Anthracene	<793	ug/kg	7750	793	400	08/30/12 07:36	08/31/12 17:38	120-12-7	
Benzo(a)anthracene	<3870	ug/kg	7750	3870	400	08/30/12 07:36	08/31/12 17:38	56-55-3	
Benzo(a)pyrene	<3870	ug/kg	7750	3870	400	08/30/12 07:36	08/31/12 17:38	50-32-8	
Benzo(b)fluoranthene	<1120	ug/kg	7750	1120	400	08/30/12 07:36	08/31/12 17:38	205-99-2	
Benzo(g,h,i)perylene	<3870	ug/kg	7750	3870	400	08/30/12 07:36	08/31/12 17:38	191-24-2	
Benzo(k)fluoranthene	<3870	ug/kg	7750	3870	400	08/30/12 07:36	08/31/12 17:38	207-08-9	
Chrysene	<880	ug/kg	7750	880	400	08/30/12 07:36	08/31/12 17:38	218-01-9	
Dibenz(a,h)anthracene	<3870	ug/kg	7750	3870	400	08/30/12 07:36	08/31/12 17:38	53-70-3	
Fluoranthene	<3870	ug/kg	7750	3870	400	08/30/12 07:36	08/31/12 17:38	206-44-0	
Fluorene	<3870	ug/kg	7750	3870	400	08/30/12 07:36	08/31/12 17:38	86-73-7	
Indeno(1,2,3-cd)pyrene	<3870	ug/kg	7750	3870	400	08/30/12 07:36	08/31/12 17:38	193-39-5	
1-Methylnaphthalene	69400	ug/kg	7750	3540	400	08/30/12 07:36	08/31/12 17:38	90-12-0	
2-Methylnaphthalene	147000	ug/kg	7750	727	400	08/30/12 07:36	08/31/12 17:38	91-57-6	
Naphthalene	153000	ug/kg	7750	1460	400	08/30/12 07:36	08/31/12 17:38	91-20-3	
Phenanthrene	1310J	ug/kg	7750	988	400	08/30/12 07:36	08/31/12 17:38	85-01-8	
Pyrene	<3870	ug/kg	7750	3870	400	08/30/12 07:36	08/31/12 17:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0 %		43-130		400	08/30/12 07:36	08/31/12 17:38	321-60-8	S4
Terphenyl-d14 (S)	0 %		32-130		400	08/30/12 07:36	08/31/12 17:38	1718-51-0	S4
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.9 %		0.10	0.10	1		08/29/12 16:02		

QUALITY CONTROL DATA

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066097

QC Batch: GCV/8942 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 4066097001, 4066097002

METHOD BLANK: 664470 Matrix: Solid
Associated Lab Samples: 4066097001, 4066097002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	08/30/12 08:39	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	08/30/12 08:39	
Benzene	ug/kg	<25.0	60.0	08/30/12 08:39	
Ethylbenzene	ug/kg	<25.0	60.0	08/30/12 08:39	
m&p-Xylene	ug/kg	<50.0	120	08/30/12 08:39	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	08/30/12 08:39	
o-Xylene	ug/kg	<25.0	60.0	08/30/12 08:39	
Toluene	ug/kg	<25.0	60.0	08/30/12 08:39	
a,a,a-Trifluorotoluene (S)	%	103	80-120	08/30/12 08:39	

LABORATORY CONTROL SAMPLE & LCSD: 664471

664472

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1000	1120	100	112	80-120	11	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1020	1130	102	113	80-120	10	20	
Benzene	ug/kg	1000	1070	1170	107	117	80-120	9	20	
Ethylbenzene	ug/kg	1000	1070	1170	107	117	80-120	9	20	
m&p-Xylene	ug/kg	2000	2140	2330	107	116	80-120	8	20	
Methyl-tert-butyl ether	ug/kg	1000	977	1030	98	103	80-120	5	20	
o-Xylene	ug/kg	1000	1060	1150	106	115	80-120	8	20	
Toluene	ug/kg	1000	1070	1160	107	116	80-120	8	20	
a,a,a-Trifluorotoluene (S)	%				103	104	80-120			

QUALITY CONTROL DATA

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066097

QC Batch: OEXT/15925 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 4066097001, 4066097002

METHOD BLANK: 664486 Matrix: Solid
Associated Lab Samples: 4066097001, 4066097002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<7.6	16.7	08/30/12 12:38	
2-Methylnaphthalene	ug/kg	<1.6	16.7	08/30/12 12:38	
Acenaphthene	ug/kg	<8.3	16.7	08/30/12 12:38	
Acenaphthylene	ug/kg	<8.3	16.7	08/30/12 12:38	
Anthracene	ug/kg	<1.7	16.7	08/30/12 12:38	
Benzo(a)anthracene	ug/kg	<8.3	16.7	08/30/12 12:38	
Benzo(a)pyrene	ug/kg	<8.3	16.7	08/30/12 12:38	
Benzo(b)fluoranthene	ug/kg	<2.4	16.7	08/30/12 12:38	
Benzo(g,h,i)perylene	ug/kg	<8.3	16.7	08/30/12 12:38	
Benzo(k)fluoranthene	ug/kg	<8.3	16.7	08/30/12 12:38	
Chrysene	ug/kg	<1.9	16.7	08/30/12 12:38	
Dibenz(a,h)anthracene	ug/kg	<8.3	16.7	08/30/12 12:38	
Fluoranthene	ug/kg	<8.3	16.7	08/30/12 12:38	
Fluorene	ug/kg	<8.3	16.7	08/30/12 12:38	
Indeno(1,2,3-cd)pyrene	ug/kg	<8.3	16.7	08/30/12 12:38	
Naphthalene	ug/kg	<3.1	16.7	08/30/12 12:38	
Phenanthrene	ug/kg	<2.1	16.7	08/30/12 12:38	
Pyrene	ug/kg	<8.3	16.7	08/30/12 12:38	
2-Fluorobiphenyl (S)	%	76	43-130	08/30/12 12:38	
Terphenyl-d14 (S)	%	83	32-130	08/30/12 12:38	

LABORATORY CONTROL SAMPLE: 664487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	274	82	44-130	
2-Methylnaphthalene	ug/kg	333	281	84	45-130	
Acenaphthene	ug/kg	333	290	87	51-130	
Acenaphthylene	ug/kg	333	297	89	53-130	
Anthracene	ug/kg	333	305	92	48-130	
Benzo(a)anthracene	ug/kg	333	274	82	55-130	
Benzo(a)pyrene	ug/kg	333	296	89	56-130	
Benzo(b)fluoranthene	ug/kg	333	293	88	53-130	
Benzo(g,h,i)perylene	ug/kg	333	329	99	58-130	
Benzo(k)fluoranthene	ug/kg	333	278	83	55-130	
Chrysene	ug/kg	333	284	85	59-130	
Dibenz(a,h)anthracene	ug/kg	333	326	98	56-130	
Fluoranthene	ug/kg	333	287	86	56-130	
Fluorene	ug/kg	333	297	89	54-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	323	97	57-130	
Naphthalene	ug/kg	333	268	80	43-130	
Phenanthrene	ug/kg	333	296	89	56-130	

Date: 09/04/2012 03:32 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 12

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QUALITY CONTROL DATA

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066097

LABORATORY CONTROL SAMPLE: 664487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	294	88	54-130	
2-Fluorobiphenyl (S)	%.			83	43-130	
Terphenyl-d14 (S)	%.			95	32-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 664488 664489

Parameter	Units	4066133007		MS	MSD	MS	MSD	% Rec	MSD	% Rec	Limits	Max RPD	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.									
1-Methylnaphthalene	ug/kg	<9.1	398	398	292	301	73	75	35-130	3	30			
2-Methylnaphthalene	ug/kg	<1.9	398	398	299	312	75	78	39-130	4	33			
Acenaphthene	ug/kg	<10	398	398	299	319	75	80	40-130	7	20			
Acenaphthylene	ug/kg	<10	398	398	306	317	77	80	40-130	3	20			
Anthracene	ug/kg	<2.0	398	398	303	315	76	79	46-130	4	24			
Benzo(a)anthracene	ug/kg	<10	398	398	273	271	68	68	42-130	1	25			
Benzo(a)pyrene	ug/kg	<10	398	398	278	274	70	68	40-130	2	31			
Benzo(b)fluoranthene	ug/kg	<2.9	398	398	284	273	71	68	45-130	4	29			
Benzo(g,h,i)perylene	ug/kg	<10	398	398	302	283	76	71	16-143	7	23			
Benzo(k)fluoranthene	ug/kg	<10	398	398	259	254	65	64	38-130	2	33			
Chrysene	ug/kg	<2.3	398	398	281	274	70	68	38-130	2	31			
Dibenz(a,h)anthracene	ug/kg	<10	398	398	301	292	75	73	30-135	3	23			
Fluoranthene	ug/kg	<10	398	398	293	307	73	76	42-133	5	28			
Fluorene	ug/kg	<10	398	398	303	319	76	80	43-130	5	22			
Indeno(1,2,3-cd)pyrene	ug/kg	<10	398	398	305	293	76	74	15-150	4	27			
Naphthalene	ug/kg	<3.8	398	398	297	307	75	77	24-130	3	33			
Phenanthrene	ug/kg	3.4J	398	398	301	327	75	81	27-135	8	27			
Pyrene	ug/kg	<10	398	398	292	294	73	73	36-130	1	23			
2-Fluorobiphenyl (S)	%.						75	79	43-130					
Terphenyl-d14 (S)	%.						81	77	32-130					

QUALITY CONTROL DATA

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066097

QC Batch: PMST/7541 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4066097001, 4066097002

SAMPLE DUPLICATE: 664227

Parameter	Units	4065570001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.3	4.0	6	10	

QUALIFIERS

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066097

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

S7 Surrogate recovery outside control limits (not confirmed by re-analysis).

W Non-detect results are reported on a wet weight basis.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EE10201 FORMER THOMAS SERVICE

Pace Project No.: 4066097

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4066097001	SS-1	TPH GRO/PVOC WI ext.	GCV/8942	WI MOD GRO	GCV/8944
4066097002	SS-2	TPH GRO/PVOC WI ext.	GCV/8942	WI MOD GRO	GCV/8944
4066097001	SS-1	EPA 3546	OEXT/15925	EPA 8270 by SIM	MSSV/4924
4066097002	SS-2	EPA 3546	OEXT/15925	EPA 8270 by SIM	MSSV/4924
4066097001	SS-1	ASTM D2974-87	PMST/7541		
4066097002	SS-2	ASTM D2974-87	PMST/7541		

(Please Print Clearly)

Company Name: Coleman Engineering
 Branch/Location: Iron Mountain
 Project Contact: John Hunt
 Phone: 906-774-3440
 Project Number: EE10201
 Project Name: Former Thomas Service
 Project State: WI - PECFA
 Sampled By (Print): John Hunt
 Sampled By (Sign):

PO #: Regulatory Program:

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
 Sl = Sludge WP = Waste

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	N	N	N	N	N	N	N	N	N	N
		DATE	TIME												
001	SS-1	8-27	12:30	S											
002	SS-2	8-27	12:45	S											



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

COC No. 4066097

CHAIN OF CUSTODY

*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

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Analyses Requested	Pick Letter	Y/N														
		N	N													
		F	A													

Quote #: PECFA
 Mail To Contact:
 Mail To Company:
 Mail To Address: jhunt@coleman-engineering
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address: jhunt@coleman-engineering
 Invoice To Phone:

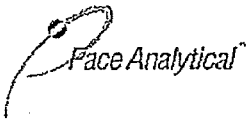
CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	1-4oz p ^A , 1-4oz ag ^A , 1-40ml v ^F	

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: *[Signature]* Date/Time: 5-28 12:00
 Relinquished By: *Walt* Date/Time: 8/29/12 0815
 Relinquished By: Date/Time:
 Relinquished By: Date/Time:

Received By: Date/Time:
 Received By: *[Signature]* Date/Time: 8/29/12 0815
 Received By: Date/Time:
 Received By: Date/Time:

PACE Project No. 4066097
 Receipt Temp = ROT °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact



Sample Condition Upon Receipt

Client Name: Coleman Engineering Project # 4066097

Courier: Fed Ex UPS USPS Client Commercial Pace Other Walter

Tracking #: 22068-1

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 N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun.

Cooler Temperature 20F Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.

Biota Samples should be received ≤ 0°C.

Optional:
Proj. Due/Date:
Proj. Name:

Person examining contents:
Date: <u>8-29-12</u>
Initials: <u>SCW</u>

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4. <u>No signature</u> <u>8/29/12 SCW</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>S</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 8/29/12

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

SOIL BORING LOGS

ATTACHMENT C



COLEMAN ENGINEERING COMPANY

635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 10201-A.GPJ

PROJECT: Thomas Service Phase I E.S.A. BORING NO.: SS-1
 CLIENT: Iron County, Wisconsin 1 OF 1
 BORING LOCATION: As Staked ELEV.: _____
 RIG TYPE: Geoprobe 66DT DRILL CREW: CEC
 DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 4.0
 DATE STARTED: 8/27/12 DATE COMPLETED: 8/27/12 REVIEWED BY: C. Saari DATE: 11/5/13
 HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS					
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)
1				0	TOPSOIL									
				1	SAND, reddish brown, fine to coarse, damp, petroleum odor									
				2										
				3	...brown, fine to coarse, some gravel, damp, petroleum odor									
				4	End of Boring									
				5										
				6										
				7										
				8										
				9										
				10										

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core
- GS-Grab Sample
- PS-Piston Tube
- 2SS-2" Split Spoon
- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube

while drilling after drilling
 after drilling

hours

BORING NO.:
SS-1



COLEMAN ENGINEERING COMPANY

635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 10201-A.GPJ

PROJECT: Thomas Service Phase I E.S.A. BORING NO.: SS-2
 CLIENT: Iron County, Wisconsin 1 OF 1
 BORING LOCATION: As Staked ELEV.: _____
 RIG TYPE: Geoprobe 66DT DRILL CREW: CEC
 DRILLING METHOD: 5" Solid Stem Auger BORING DEPTH: 4.0
 DATE STARTED: 8/27/12 DATE COMPLETED: 8/27/12 REVIEWED BY: C. Saari DATE: 11/5/13
 HOLE CLOSURE: Soil Cuttings

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS										
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	q _u (tsf)			
1				0	SAND, reddish brown, fine to coarse, damp, petroleum odor														
				1															
				2															
				3	...brown, fine to coarse, damp, petroleum odor														
				4	4.0'	End of Boring													
				5															
				6															
				7															
				8															
				9															
			10																

<input type="checkbox"/> -AS-Auger Sample	<input type="checkbox"/> -GS-Grab Sample	<input type="checkbox"/> -3SS-3" Split Spoon	<input type="checkbox"/> while drilling	after hours	BORING NO.: SS-2
<input type="checkbox"/> -BS-Bag Sample	<input type="checkbox"/> -PS-Piston Tube	<input type="checkbox"/> -2ST-2" Shelby Tube	<input type="checkbox"/> after drilling		
<input type="checkbox"/> -RC-Rock-Core	<input type="checkbox"/> -2SS-2" Split Spoon	<input type="checkbox"/> -3ST-3" Shelby Tube			

ATTACHMENT D

GROUNDWATER INFORMATION

- Groundwater Analytical Summary Tables
 - Groundwater Contour Map
- August 27, 2012 Groundwater Sample Analytical Reports

FORMER THOMAS SERVICE STATION
2011 – 2012 GROUNDWATER SAMPLE ANALYSIS RESULTS
SUMMARY TABLES

**TABLE 1
AUGUST 2012 GROUNDWATER PVOC ANALYSIS RESULTS**

Sample Identification	MW-1	MW-2	MW-3	MW-4	NR 140 PAL/ES
Sample Date	8/27/12	8/27/12	8/27/12	8/27/12	
Benzene	<0.39	<0.39	<0.39	7.4	0.5/5
Ethylbenzene	<0.41	<0.41	<0.41	37.5	140/700
Methyl-tert-butyl ether	<0.38	<0.38	<0.38	0.58J	12/60
Toluene	<0.42	<0.42	<0.42	0.74J	200/1000
1,2,4 Trimethylbenzene	<0.43	<0.43	<0.43	37.5	14/70
1,3,5 Trimethylbenzene	<0.40	<0.40	<0.40	18.2	NS
Total Xylene	<1.25	<1.25	<1.25	60.1	1000/10000

**TABLE 2
AUGUST 2012 GROUNDWATER PAH ANALYSIS RESULTS**

Sample Identification	MW-1	MW-2	MW-3	MW-4	NR 140 PAL/ES
Sample Date	8/27/12	8/27/12	8/27/12	8/27/12	
Acenaphthlene	0.025J	0.0057J	0.0045J	0.030J	NS
Acenaphthylene	0.0060J	<0.0029	<0.0029	<0.0029	NS
Anthracene	0.0098J	<0.0026	0.0044J	<0.0026	NS
Benzo(a)anthracene	<0.0042	<0.0042	<0.0042	<0.0042	NS
Benzo(a)pyrene	<0.0042	<0.0042	<0.0042	<0.0042	0.02/0.2
Benzo(b)flouranthene	<0.0045	<0.0045	<0.0045	<0.0045	0.02/0.2
Benzo(g,h,i)perylene	<0.0053	<0.0053	<0.0053	<0.0053	NS
Benzo(k)flouranthene	<0.0047	<0.0047	<0.0047	<0.0047	NS
Chrysene	0.0061J	<0.0046	<0.0046	<0.0046	0.02/0.2
Diebenzo(a,h)anthracene	<0.0089	<0.0089	<0.0089	<0.0089	NS
Flouranthene	0.0094J	0.0036J	0.0093J	<0.032	80/400
Flourene	0.043J	<0.0029	0.011J	<0.029	80/400
Indeno(1,2,3c-d)pyrene	<0.0052	<0.0052	<0.0052	<0.052	NS
1-methylnaphthalene	0.0092J	<0.0044	<0.0044	1.2	NS
2-methylnaphthalene	<0.0046	0.0047J	<0.0046	0.99	NS
Naphthalene	0.032J	0.032J	0.021J	3.4	10/100
Phenanthrene	0.098J	0.0088J	0<0.0081	<0.081	NS
Pyrene	0.018J	0.0055J	0.030J	<0.041	50/250

NOTES:

All concentrations in micrograms per kilogram ($\mu\text{g}/\text{kg}$) for soil and micrograms per liter ($\mu\text{g}/\text{l}$)

NS- No Standard

J-laboratory footnote concentration estimated

NR 141 PAL/ES - Preventive Action Level/Enforcement Standard from NR 140.10 Table 1.

BOLD results indicate regulatory standard exceedence

FORMER THOMAS SERVICE STATION
2011 – 2012 GROUNDWATER SAMPLE ANALYSIS RESULTS
SUMMARY TABLES

TABLE 3
SEPTEMBER 2011 GROUNDWATER PVOC ANALYSIS RESULTS

Sample Identification	MW-1	MW-2	MW-3	MW-4	NR 140 PAL/ES
Sample Date	09/21/11	09/21/11	09/21/11	09/21/11	
Benzene	1.6	<0.39	<0.39	18.8	0.5/5
Ethylbenzene	0.54J	<0.41	<0.41	99.5	140/700
Methyl-tert-butyl ether	<0.38	<0.38	<0.38	7.1	12/60
Toluene	1.9	<0.40	<0.40	6.3	200/1000
1,2,4 Trimethylbenzene	3.3	<0.43	<0.43	358	14/70
1,3,5 Trimethylbenzene	0.64J	<0.40	<0.40	122	NS
Total Xylene	1.9	<0.87	<0.87	505	1000/10000
Naphthalene	0.99J	<0.40	<0.40	36.3	10/100

TABLE 4
SEPTEMBER 2010 GROUNDWATER PVOC ANALYSIS RESULTS

Sample Identification	Tank Pit	B-1 Temp Well	B-6 Temp Well	B-7 Temp Well	NR 140 PAL/ES
Sample Date	09/16/10	11/17/10	11/17/10	11/17/10	
Benzene	1.5	31.9	<7.8	4.6	0.5/5
Ethylbenzene	8.4	444	27.4	<0.41	140/700
Methyl-tert-butyl ether	<0.38	11.9	55.1	<0.38	12/60
Toluene	7.5	35.5	17.6J	<0.42	200/1000
1,2,4 Trimethylbenzene	4	1400	14.7J	<0.43	14/70
1,3,5 Trimethylbenzene	1.1	400	56.5	<0.40	NS
Total Xylene	54.7	2521	43J	<1.0	1000/10000
Naphthalene	na	132	30.1	<0.40	10/100

NOTES:

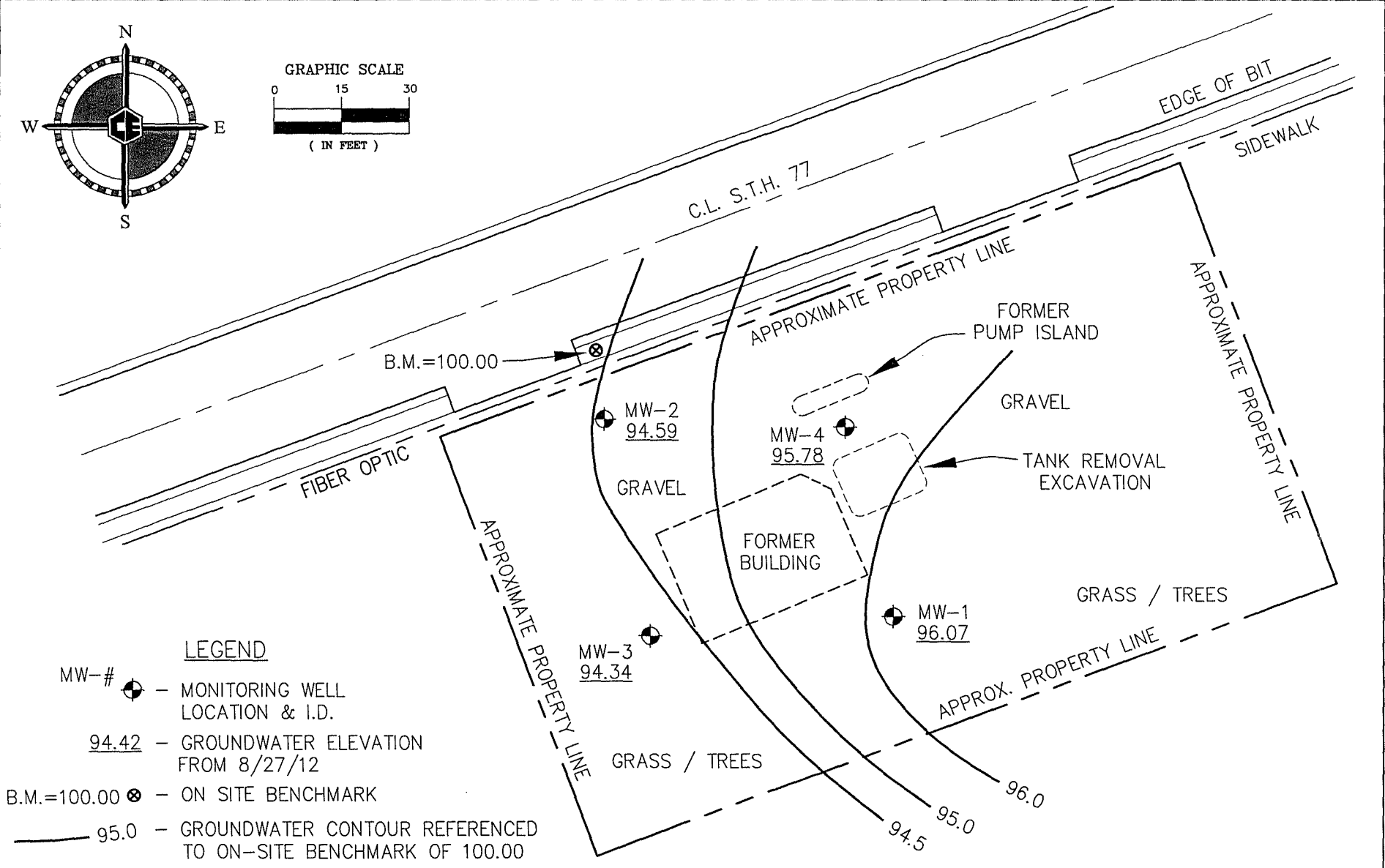
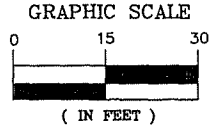
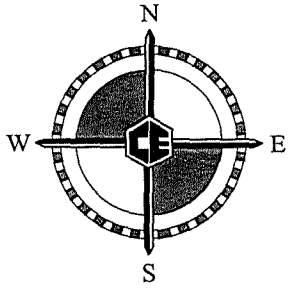
All concentrations in micrograms per kilogram ($\mu\text{g}/\text{kg}$) for soil and micrograms per liter ($\mu\text{g}/\text{l}$)

NS- No Standard

J-laboratory footnote concentration estimated

NR 141 PAL/ES – NR 140 Preventive Action Level/Enforcement Standard

BOLD results indicate regulatory standard exceedence



LEGEND

- MW-# - MONITORING WELL LOCATION & I.D.
- 94.42 - GROUNDWATER ELEVATION FROM 8/27/12
- B.M.=100.00 - ON SITE BENCHMARK
- 95.0 - GROUNDWATER CONTOUR REFERENCED TO ON-SITE BENCHMARK OF 100.00

FIGURE 2 - GROUNDWATER CONTOUR MAP AUGUST 2012
FORMER THOMAS SERVICE STATION
MONTREAL, WISCONSIN



COLEMAN ENGINEERING COMPANY
 635 CIRCLE DRIVE - IRON MOUNTAIN, MICHIGAN 49801 (906) 774-3440
 200 EAST AYER STREET - IRONWOOD, MICHIGAN 49938 (906) 932-5048

DATE 9/24/12
 JOB NO 10201-B
 CADD FILE 10201-B-PECFA GW 8-12
 PDF FILE 10201-B-PECFA GW 8-27-12

**MONITORING WELL AND GROUNDWATER ELEVATIONS
FORMER THOMAS SERVICE STATION
BRRTS #03-26-000788
MONTREAL, WISCONSIN**

WELL ID	GROUND ELEVATION	CASING ELEVATION	CASING BOTTOM	TOP OF SCREEN	September 21, 2011		August 27, 2012	
					DTW	GW ELE	DTW	GW ELE
MW-1	100.47	103.38	92.63	97.63	7.18	96.2	7.31	96.07
MW-2	99.41	98.99	91.44	96.44	4.33	94.66	4.4	94.59
MW-3	100.01	99.71	91.61	96.61	5.29	94.42	5.37	94.34
MW-4	100.13	99.86	91.91	96.91	4.11	95.75	4.08	95.78

All elevations referenced to an on-site benchmark of 100.00

DTW - depth to water in feet

GW ELE - groundwater elevation

September 05, 2012

John Hunt
COLEMAN ENGINEERING
635 Circle Drive
Iron Mountain, MI 49801

RE: Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066103

Dear John Hunt:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2012. 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,



Steven Mleczko

steve.mleczko@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066103

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

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Page 2 of 13

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SAMPLE SUMMARY

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066103

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4066103001	MW-1	Water	08/27/12 15:15	08/29/12 08:15
4066103002	MW-2	Water	08/27/12 15:00	08/29/12 08:15
4066103003	MW-3	Water	08/27/12 14:45	08/29/12 08:15
4066103004	MW-4	Water	08/27/12 15:30	08/29/12 08:15

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066103

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4066103001	MW-1	WI MOD GRO	LCM	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
4066103002	MW-2	WI MOD GRO	LCM	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
4066103003	MW-3	WI MOD GRO	LCM	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
4066103004	MW-4	WI MOD GRO	LCM	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066103

Sample: MW-1 Lab ID: 4066103001 Collected: 08/27/12 15:15 Received: 08/29/12 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		08/31/12 22:22	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		08/31/12 22:22	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		08/31/12 22:22	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		08/31/12 22:22	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		08/31/12 22:22	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		08/31/12 22:22	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		08/31/12 22:22	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		08/31/12 22:22	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104 %		80-120		1		08/31/12 22:22	98-08-8	
8270 MSSV PAH by HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	0.025J	ug/L	0.045	0.0029	1	08/31/12 12:00	09/04/12 14:51	83-32-9	
Acenaphthylene	0.0060J	ug/L	0.045	0.0029	1	08/31/12 12:00	09/04/12 14:51	208-96-8	
Anthracene	0.0098J	ug/L	0.045	0.0026	1	08/31/12 12:00	09/04/12 14:51	120-12-7	
Benzo(a)anthracene	<0.0042	ug/L	0.045	0.0042	1	08/31/12 12:00	09/04/12 14:51	56-55-3	
Benzo(a)pyrene	<0.0042	ug/L	0.045	0.0042	1	08/31/12 12:00	09/04/12 14:51	50-32-8	
Benzo(b)fluoranthene	<0.0045	ug/L	0.045	0.0045	1	08/31/12 12:00	09/04/12 14:51	205-99-2	
Benzo(g,h,i)perylene	<0.0053	ug/L	0.045	0.0053	1	08/31/12 12:00	09/04/12 14:51	191-24-2	
Benzo(k)fluoranthene	<0.0047	ug/L	0.045	0.0047	1	08/31/12 12:00	09/04/12 14:51	207-08-9	
Chrysene	0.0061J	ug/L	0.045	0.0046	1	08/31/12 12:00	09/04/12 14:51	218-01-9	
Dibenz(a,h)anthracene	<0.0089	ug/L	0.045	0.0089	1	08/31/12 12:00	09/04/12 14:51	53-70-3	
Fluoranthene	0.0094J	ug/L	0.045	0.0032	1	08/31/12 12:00	09/04/12 14:51	206-44-0	
Fluorene	0.043J	ug/L	0.045	0.0029	1	08/31/12 12:00	09/04/12 14:51	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0052	ug/L	0.045	0.0052	1	08/31/12 12:00	09/04/12 14:51	193-39-5	
1-Methylnaphthalene	0.0092J	ug/L	0.045	0.0044	1	08/31/12 12:00	09/04/12 14:51	90-12-0	
2-Methylnaphthalene	<0.0046	ug/L	0.045	0.0046	1	08/31/12 12:00	09/04/12 14:51	91-57-6	
Naphthalene	0.032J	ug/L	0.045	0.0045	1	08/31/12 12:00	09/04/12 14:51	91-20-3	
Phenanthrene	0.0098J	ug/L	0.045	0.0081	1	08/31/12 12:00	09/04/12 14:51	85-01-8	
Pyrene	0.018J	ug/L	0.045	0.0041	1	08/31/12 12:00	09/04/12 14:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63 %		28-130		1	08/31/12 12:00	09/04/12 14:51	321-60-8	
Terphenyl-d14 (S)	87 %		49-130		1	08/31/12 12:00	09/04/12 14:51	1718-51-0	

ANALYTICAL RESULTS

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066103

Sample: MW-2 Lab ID: 4066103002 Collected: 08/27/12 15:00 Received: 08/29/12 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		08/31/12 22:47	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		08/31/12 22:47	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		08/31/12 22:47	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		08/31/12 22:47	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		08/31/12 22:47	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		08/31/12 22:47	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		08/31/12 22:47	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		08/31/12 22:47	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-120		1		08/31/12 22:47	98-08-8	
8270 MSSV PAH by HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	0.0057J	ug/L	0.045	0.0029	1	08/31/12 12:00	09/04/12 15:09	83-32-9	
Acenaphthylene	<0.0029	ug/L	0.045	0.0029	1	08/31/12 12:00	09/04/12 15:09	208-96-8	
Anthracene	<0.0026	ug/L	0.045	0.0026	1	08/31/12 12:00	09/04/12 15:09	120-12-7	
Benzo(a)anthracene	<0.0042	ug/L	0.045	0.0042	1	08/31/12 12:00	09/04/12 15:09	56-55-3	
Benzo(a)pyrene	<0.0042	ug/L	0.045	0.0042	1	08/31/12 12:00	09/04/12 15:09	50-32-8	
Benzo(b)fluoranthene	<0.0045	ug/L	0.045	0.0045	1	08/31/12 12:00	09/04/12 15:09	205-99-2	
Benzo(g,h,i)perylene	<0.0053	ug/L	0.045	0.0053	1	08/31/12 12:00	09/04/12 15:09	191-24-2	
Benzo(k)fluoranthene	<0.0047	ug/L	0.045	0.0047	1	08/31/12 12:00	09/04/12 15:09	207-08-9	
Chrysene	<0.0046	ug/L	0.045	0.0046	1	08/31/12 12:00	09/04/12 15:09	218-01-9	
Dibenz(a,h)anthracene	<0.0089	ug/L	0.045	0.0089	1	08/31/12 12:00	09/04/12 15:09	53-70-3	
Fluoranthene	0.0036J	ug/L	0.045	0.0032	1	08/31/12 12:00	09/04/12 15:09	206-44-0	
Fluorene	<0.0029	ug/L	0.045	0.0029	1	08/31/12 12:00	09/04/12 15:09	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0052	ug/L	0.045	0.0052	1	08/31/12 12:00	09/04/12 15:09	193-39-5	
1-Methylnaphthalene	<0.0044	ug/L	0.045	0.0044	1	08/31/12 12:00	09/04/12 15:09	90-12-0	
2-Methylnaphthalene	0.0047J	ug/L	0.045	0.0046	1	08/31/12 12:00	09/04/12 15:09	91-57-6	
Naphthalene	0.032J	ug/L	0.045	0.0045	1	08/31/12 12:00	09/04/12 15:09	91-20-3	
Phenanthrene	0.0088J	ug/L	0.045	0.0081	1	08/31/12 12:00	09/04/12 15:09	85-01-8	
Pyrene	0.0055J	ug/L	0.045	0.0041	1	08/31/12 12:00	09/04/12 15:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71 %		28-130		1	08/31/12 12:00	09/04/12 15:09	321-60-8	
Terphenyl-d14 (S)	97 %		49-130		1	08/31/12 12:00	09/04/12 15:09	1718-51-0	

ANALYTICAL RESULTS

Project: EE10201 FORMER THOMAS SERVICE

Pace Project No.: 4066103

Sample: MW-3 Lab ID: 4066103003 Collected: 08/27/12 14:45 Received: 08/29/12 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		08/30/12 19:38	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		08/30/12 19:38	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		08/30/12 19:38	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		08/30/12 19:38	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		08/30/12 19:38	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		08/30/12 19:38	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		08/30/12 19:38	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		08/30/12 19:38	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104 %		80-120		1		08/30/12 19:38	98-08-8	
8270 MSSV PAH by HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	0.0045J	ug/L	0.045	0.0029	1	08/31/12 12:00	09/04/12 15:28	83-32-9	
Acenaphthylene	<0.0029	ug/L	0.045	0.0029	1	08/31/12 12:00	09/04/12 15:28	208-96-8	
Anthracene	0.0044J	ug/L	0.045	0.0026	1	08/31/12 12:00	09/04/12 15:28	120-12-7	
Benzo(a)anthracene	<0.0042	ug/L	0.045	0.0042	1	08/31/12 12:00	09/04/12 15:28	56-55-3	
Benzo(a)pyrene	<0.0042	ug/L	0.045	0.0042	1	08/31/12 12:00	09/04/12 15:28	50-32-8	
Benzo(b)fluoranthene	<0.0045	ug/L	0.045	0.0045	1	08/31/12 12:00	09/04/12 15:28	205-99-2	
Benzo(g,h,i)perylene	<0.0053	ug/L	0.045	0.0053	1	08/31/12 12:00	09/04/12 15:28	191-24-2	
Benzo(k)fluoranthene	<0.0047	ug/L	0.045	0.0047	1	08/31/12 12:00	09/04/12 15:28	207-08-9	
Chrysene	<0.0046	ug/L	0.045	0.0046	1	08/31/12 12:00	09/04/12 15:28	218-01-9	
Dibenz(a,h)anthracene	<0.0089	ug/L	0.045	0.0089	1	08/31/12 12:00	09/04/12 15:28	53-70-3	
Fluoranthene	0.0093J	ug/L	0.045	0.0032	1	08/31/12 12:00	09/04/12 15:28	206-44-0	
Fluorene	0.011J	ug/L	0.045	0.0029	1	08/31/12 12:00	09/04/12 15:28	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0052	ug/L	0.045	0.0052	1	08/31/12 12:00	09/04/12 15:28	193-39-5	
1-Methylnaphthalene	<0.0044	ug/L	0.045	0.0044	1	08/31/12 12:00	09/04/12 15:28	90-12-0	
2-Methylnaphthalene	<0.0046	ug/L	0.045	0.0046	1	08/31/12 12:00	09/04/12 15:28	91-57-6	
Naphthalene	0.021J	ug/L	0.045	0.0045	1	08/31/12 12:00	09/04/12 15:28	91-20-3	
Phenanthrene	<0.0081	ug/L	0.045	0.0081	1	08/31/12 12:00	09/04/12 15:28	85-01-8	
Pyrene	0.030J	ug/L	0.045	0.0041	1	08/31/12 12:00	09/04/12 15:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68 %		28-130		1	08/31/12 12:00	09/04/12 15:28	321-60-8	
Terphenyl-d14 (S)	95 %		49-130		1	08/31/12 12:00	09/04/12 15:28	1718-51-0	

ANALYTICAL RESULTS

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066103

Sample: MW-4 Lab ID: 4066103004 Collected: 08/27/12 15:30 Received: 08/29/12 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	7.4	ug/L	1.0	0.39	1		08/30/12 20:04	71-43-2	
Ethylbenzene	37.5	ug/L	1.0	0.41	1		08/30/12 20:04	100-41-4	
Methyl-tert-butyl ether	0.58J	ug/L	1.0	0.38	1		08/30/12 20:04	1634-04-4	
Toluene	0.74J	ug/L	1.0	0.42	1		08/30/12 20:04	108-88-3	
1,2,4-Trimethylbenzene	37.5	ug/L	1.0	0.43	1		08/30/12 20:04	95-63-6	
1,3,5-Trimethylbenzene	18.2	ug/L	1.0	0.40	1		08/30/12 20:04	108-67-8	
m&p-Xylene	51.9	ug/L	2.0	0.87	1		08/30/12 20:04	179601-23-1	
o-Xylene	8.2	ug/L	1.0	0.38	1		08/30/12 20:04	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	138 %		80-120		1		08/30/12 20:04	98-08-8	S7
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.030J	ug/L	0.45	0.029	10	08/31/12 12:00	09/04/12 15:47	83-32-9	
Acenaphthylene	<0.029	ug/L	0.45	0.029	10	08/31/12 12:00	09/04/12 15:47	208-96-8	
Anthracene	<0.026	ug/L	0.45	0.026	10	08/31/12 12:00	09/04/12 15:47	120-12-7	
Benzo(a)anthracene	<0.042	ug/L	0.45	0.042	10	08/31/12 12:00	09/04/12 15:47	56-55-3	
Benzo(a)pyrene	<0.042	ug/L	0.45	0.042	10	08/31/12 12:00	09/04/12 15:47	50-32-8	
Benzo(b)fluoranthene	<0.045	ug/L	0.45	0.045	10	08/31/12 12:00	09/04/12 15:47	205-99-2	
Benzo(g,h,i)perylene	<0.053	ug/L	0.45	0.053	10	08/31/12 12:00	09/04/12 15:47	191-24-2	
Benzo(k)fluoranthene	<0.047	ug/L	0.45	0.047	10	08/31/12 12:00	09/04/12 15:47	207-08-9	
Chrysene	<0.046	ug/L	0.45	0.046	10	08/31/12 12:00	09/04/12 15:47	218-01-9	
Dibenz(a,h)anthracene	<0.089	ug/L	0.45	0.089	10	08/31/12 12:00	09/04/12 15:47	53-70-3	
Fluoranthene	<0.032	ug/L	0.45	0.032	10	08/31/12 12:00	09/04/12 15:47	206-44-0	
Fluorene	<0.029	ug/L	0.45	0.029	10	08/31/12 12:00	09/04/12 15:47	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.052	ug/L	0.45	0.052	10	08/31/12 12:00	09/04/12 15:47	193-39-5	
1-Methylnaphthalene	1.2	ug/L	0.45	0.044	10	08/31/12 12:00	09/04/12 15:47	90-12-0	
2-Methylnaphthalene	0.99	ug/L	0.45	0.046	10	08/31/12 12:00	09/04/12 15:47	91-57-6	
Naphthalene	3.4	ug/L	0.45	0.045	10	08/31/12 12:00	09/04/12 15:47	91-20-3	
Phenanthrene	<0.081	ug/L	0.45	0.081	10	08/31/12 12:00	09/04/12 15:47	85-01-8	
Pyrene	<0.041	ug/L	0.45	0.041	10	08/31/12 12:00	09/04/12 15:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73 %		28-130		10	08/31/12 12:00	09/04/12 15:47	321-60-8	
Terphenyl-d14 (S)	105 %		49-130		10	08/31/12 12:00	09/04/12 15:47	1718-51-0	

QUALITY CONTROL DATA

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066103

QC Batch: GCV/8943 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 4066103001, 4066103002, 4066103003, 4066103004

METHOD BLANK: 664473 Matrix: Water
Associated Lab Samples: 4066103001, 4066103002, 4066103003, 4066103004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	08/30/12 08:31	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	08/30/12 08:31	
Benzene	ug/L	<0.39	1.0	08/30/12 08:31	
Ethylbenzene	ug/L	<0.41	1.0	08/30/12 08:31	
m&p-Xylene	ug/L	<0.87	2.0	08/30/12 08:31	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	08/30/12 08:31	
o-Xylene	ug/L	<0.38	1.0	08/30/12 08:31	
Toluene	ug/L	<0.42	1.0	08/30/12 08:31	
a,a,a-Trifluorotoluene (S)	%	105	80-120	08/30/12 08:31	

Parameter	Units	664474		664475		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec				
1,2,4-Trimethylbenzene	ug/L	20	19.4	19.6	97	98	80-120	1	20
1,3,5-Trimethylbenzene	ug/L	20	19.5	19.7	97	99	80-120	1	20
Benzene	ug/L	20	20.2	20.2	101	101	80-120	0	20
Ethylbenzene	ug/L	20	19.7	19.8	99	99	80-120	0	20
m&p-Xylene	ug/L	40	39.5	39.8	99	100	80-120	1	20
Methyl-tert-butyl ether	ug/L	20	20.5	20.6	102	103	80-120	1	20
o-Xylene	ug/L	20	19.7	19.8	99	99	80-120	1	20
Toluene	ug/L	20	19.8	19.8	99	99	80-120	0	20
a,a,a-Trifluorotoluene (S)	%				103	102	80-120		

Parameter	Units	664511		664512		% Rec Limits	RPD	Max RPD	Qual		
		4066005006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					MSD Result	
1,2,4-Trimethylbenzene	ug/L	1500	1000	1000	2680	2650	118	115	10-200	1	20
1,3,5-Trimethylbenzene	ug/L	601	1000	1000	1790	1750	119	115	56-169	2	20
Benzene	ug/L	1590	1000	1000	2730	2690	113	110	33-173	1	20
Ethylbenzene	ug/L	2910	1000	1000	4070	4020	116	111	49-158	1	20
m&p-Xylene	ug/L	4300	2000	2000	6610	6580	115	114	44-163	0	20
Methyl-tert-butyl ether	ug/L	<19.0	1000	1000	1120	1110	112	111	80-130	1	20
o-Xylene	ug/L	513	1000	1000	1660	1620	115	111	64-140	3	20
Toluene	ug/L	858	1000	1000	2000	1970	114	111	79-132	2	20
a,a,a-Trifluorotoluene (S)	%						107	107	80-120		

QUALITY CONTROL DATA

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066103

QC Batch: OEXT/15943 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 4066103001, 4066103002, 4066103003, 4066103004

METHOD BLANK: 665195 Matrix: Water
Associated Lab Samples: 4066103001, 4066103002, 4066103003, 4066103004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0049	0.050	09/04/12 13:56	
2-Methylnaphthalene	ug/L	<0.0051	0.050	09/04/12 13:56	
Acenaphthene	ug/L	<0.0033	0.050	09/04/12 13:56	
Acenaphthylene	ug/L	<0.0033	0.050	09/04/12 13:56	
Anthracene	ug/L	<0.0029	0.050	09/04/12 13:56	
Benzo(a)anthracene	ug/L	<0.0047	0.050	09/04/12 13:56	
Benzo(a)pyrene	ug/L	<0.0047	0.050	09/04/12 13:56	
Benzo(b)fluoranthene	ug/L	<0.0050	0.050	09/04/12 13:56	
Benzo(g,h,i)perylene	ug/L	<0.0059	0.050	09/04/12 13:56	
Benzo(k)fluoranthene	ug/L	<0.0053	0.050	09/04/12 13:56	
Chrysene	ug/L	<0.0051	0.050	09/04/12 13:56	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	09/04/12 13:56	
Fluoranthene	ug/L	<0.0036	0.050	09/04/12 13:56	
Fluorene	ug/L	<0.0033	0.050	09/04/12 13:56	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0058	0.050	09/04/12 13:56	
Naphthalene	ug/L	<0.0050	0.050	09/04/12 13:56	
Phenanthrene	ug/L	<0.0091	0.050	09/04/12 13:56	
Pyrene	ug/L	<0.0046	0.050	09/04/12 13:56	
2-Fluorobiphenyl (S)	%	63	28-130	09/04/12 13:56	
Terphenyl-d14 (S)	%	102	49-130	09/04/12 13:56	

LABORATORY CONTROL SAMPLE & LCSD: 665196		665197								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.11	0.12	57	58	39-130	2	50	
2-Methylnaphthalene	ug/L	.2	0.11	0.11	55	55	37-130	0	50	
Acenaphthene	ug/L	.2	0.12	0.12	61	58	44-130	5	49	
Acenaphthylene	ug/L	.2	0.12	0.11	62	54	43-130	13	48	
Anthracene	ug/L	.2	0.099	0.10	49	52	40-130	5	46	
Benzo(a)anthracene	ug/L	.2	0.15	0.15	73	76	56-130	4	21	
Benzo(a)pyrene	ug/L	.2	0.14	0.14	68	70	52-130	2	20	
Benzo(b)fluoranthene	ug/L	.2	0.15	0.17	76	85	57-130	11	24	
Benzo(g,h,i)perylene	ug/L	.2	0.16	0.16	78	81	48-130	4	20	
Benzo(k)fluoranthene	ug/L	.2	0.15	0.15	77	77	46-130	0	23	
Chrysene	ug/L	.2	0.15	0.16	74	81	55-130	8	20	
Dibenz(a,h)anthracene	ug/L	.2	0.17	0.17	83	85	50-130	2	20	
Fluoranthene	ug/L	.2	0.15	0.16	74	79	57-130	7	40	
Fluorene	ug/L	.2	0.13	0.12	65	62	47-130	3	50	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.16	0.17	79	83	50-130	5	20	
Naphthalene	ug/L	.2	0.10	0.083	50	42	38-130	18	50	
Phenanthrene	ug/L	.2	0.14	0.14	69	70	55-130	2	47	

Date: 09/05/2012 04:18 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066103

LABORATORY CONTROL SAMPLE & LCSD: 665196		665197									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Pyrene	ug/L	.2	0.14	0.15	70	74	55-130	6	40		
2-Fluorobiphenyl (S)	%				56	57	28-130				
Terphenyl-d14 (S)	%				91	95	49-130				

QUALIFIERS

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066103

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSSV/4930

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

S7 Surrogate recovery outside control limits (not confirmed by re-analysis).

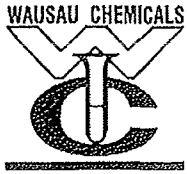
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EE10201 FORMER THOMAS SERVICE
Pace Project No.: 4066103

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4066103001	MW-1	WI MOD GRO	GCV/8943		
4066103002	MW-2	WI MOD GRO	GCV/8943		
4066103003	MW-3	WI MOD GRO	GCV/8943		
4066103004	MW-4	WI MOD GRO	GCV/8943		
4066103001	MW-1	EPA 3510	OEXT/15943	EPA 8270 by HVI	MSSV/4930
4066103002	MW-2	EPA 3510	OEXT/15943	EPA 8270 by HVI	MSSV/4930
4066103003	MW-3	EPA 3510	OEXT/15943	EPA 8270 by HVI	MSSV/4930
4066103004	MW-4	EPA 3510	OEXT/15943	EPA 8270 by HVI	MSSV/4930

Purge Water Disposal Documentation

ATTACHMENT E



WAUSAU CHEMICAL CORP.

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WAUSAU WI 54402

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IRON MOUNTAIN MI 49801

SHIP TO

IRON CTY PLANNING DEP
55 WISCONSIN AVE
MONTREAL WI 54550

Order No.	Order date	Customer account	Location	Sales rep	Customer reference	Shipment	Delivery
so-229881	10/19/2012	168500	DW	RL	BILL OF LADING	05	1

Tax	Item number	Unit	Description	Quantity	Unit price	Total price
Y	38	DM	WRR-WATER, <50% SOLIDS-DRUMS	1.00	120.00	120.00
Y	3984	EA	MANIFEST FEE	1.00	10.00	10.00
Y	36	DM	HAULING CHARGE (DRUM)	1.00	30.00	30.00

Sales tax code	Amount origin	Quantity	Sales tax amount
MI	160.00	0.00	9.60

Terms are NET 30

Sales balance: 160.00

Tax / Fee amount: 9.60

Past due accounts are subject to late payment charge of 1.0 % per month

Total amount: 169.60 USD

FOLD, DETACH AND SEND WITH YOUR CHECK

COLEMAN ENGINEERING CO
635 CIRCLE DRIVE
IRON MOUNTAIN MI 49801

Invoice # : INV-220471

Date : 10/19/2012

Invoice amount : 169.60

Customer account : 168500

Please send this detached remittance with your payment. If you are paying amounts other than this invoice or are making adjustments, please indicate in the comment section. Thank you for your payment and your business.

Comments _____

BILL OF LADING



WRR Environmental Services Co., Inc.

5200 Ryder Road, Eau Claire, WI 54701
(715) 834-9624 FAX (715) 836-8785

GENERATOR CLAIMING VERY SMALL QUANTITY

GENERATOR STATUS

(SIGNED)

Shippers #	Your P.O. No.
	WRR Env
All information must be typed or printed.	

1. Generator's Name and Mailing Address Iron County Planning, Land & Zoning Dept 55 Wisconsin Ave Merrill, WI 54450		A. Profile #
2. Generator's Phone (715) 715-581-5414		B. State Generator's ID
3. Transporter 1 Company Name Wausau Chemical Corp	4. US EPA ID Number WID108137301	C. State Transporter's ID NA
5. Transporter 2 Company Name	6. US EPA ID Number	D. Transporter's Phone 715-842-3888
7. Designated Facility Name and Site Address WRR Environmental Services Co., Inc. 5200 Ryder Road Eau Claire, WI 54701	8. US EPA ID Number WID 990 829 475	E. State Transporter's ID NA
		F. Transporter's Phone
		G. State Facility's ID
		H. Facility's Phone 715-834-9624

9. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group)	10. Containers No.	11. Total Quantity	12. Unit Wt/Vol	1. Waste No.
a. Non-Hazardous Waste (H.M.)				
b. Non-Hazardous Waste (H.M.)				
c.				
d.				

J. Additional Descriptions for Materials Listed Above 201100014 40304 201100014 1FA213	K. Handling Code for Wastes Listed Above a. b.
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13. Special Handling Instructions and Additional Information
WRR Info

14. Emergency Phone# 715-834-9624

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations and according to the requirements of the Wisconsin Department of Natural Resources

Printed/Typed Name & Position Title	Signature	Date Month Day Year
WRR Env	[Signature]	12/05/12
16. TRANSPORTER 1: Acknowledgement of Receipt of Materials	Signature	Date Month Day Year
[Signature]	[Signature]	12/05/12