

September 3, 2014

Mr. Woody Myers
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Madison, Wisconsin 53711

Re: Sampling Update
Former Superior Health Linen Property - 1509 Emil Street 02-13-256630
Madison, Wisconsin

Dear Mr. Myers:

Seymour Environmental Services, Inc. (Seymour) is pleased to present the results of sampling at the above referenced property performed in preparation for a real estate transfer. In 2000 elevated levels of chlorinated volatile organic compounds (CVOCs) were identified in both soil and groundwater at the site. The identified contaminant levels were only slightly above the WDNR standards and the site was closed to further assessment by the WDNR in 2001. However, since that time the potential hazard of vapor intrusion has become a concern.

Background/Historic Site Contamination

Beginning in 2000, soil and groundwater sampling was conducted at the site. The environmental assessment work was performed by ARCADIS, Geraghty & Miller, prior to a real estate transaction. Samples were collected at seven locations around the building. Analysis of soil samples identified CVOCs in shallow soil near the southeast corner of the building. This area was used as the loading dock and spent drum storage during the time that a dry cleaner operated at the site. Groundwater samples collected at the site indicated that CVOC contamination was present in the shallow groundwater along the eastern side of the building. Tetrachloroethene (PCE) was present above the NR140 preventative action limit in water at MW-1 and MW-3, and above the enforcement standard in MW-2. The data was submitted to the WDNR and the site was closed to further environmental-related activities with a GIS Registry for residual soil and groundwater contamination. Sampling locations are shown on Figure 1.

Summary of Previous sampling Activities (Early 2013)

On March 22, 2013 soil samples were collected at three locations beneath the building at the site. A single sample was collected at each location below the concrete floor. One of the samples was collected beneath the floor in the pit near the southeast corner of the building; this location is approximately 4.5 feet below the grade of the top of the loading dock. The remaining two samples were collected beneath the slab in the main manufacturing area. The soil samples were submitted to PACE Analytical, a Wisconsin certified laboratory, for analysis of volatile organic compounds (VOCs). After the soil sample was collected a subslab probe was installed in the borings. Sampling locations are shown on Figure 1.

No analytes were detected in the two soil samples collected in the southern portion of the building (PIT, South). One analyte, PCE, was present in the soil sample collected at the remaining probe (north), which is located adjacent to a floor drain near the large metal shear. The PCE concentration in that point was 38 ug/kg. This concentration exceeds the groundwater protection standard of 2.3 ug/kg established by the USEPA and adopted by the WDNR. Soil analytical data is summarized in Table 1.

On March 25, 2013 vapor sampling was conducted at the site. Samples of subslab vapors were collected via the three probes installed on March 22, 2013. Additionally, a sample of the indoor air was collected near the southeast corner of the building where CVOCs had been discovered previously. All of the samples were collected using 6-liter Summa canisters provided by the Wisconsin State Lab of Hygiene. Subslab sampling canisters were equipped with regulators so that the canisters filled over a 30-minute period limiting the flow to approximately 200 ml/min. The indoor air sampling canister was equipped with a regulator to provide a 24-hour sampling. Vapor samples recovered were analyzed for CVOCs.

Vapor sampling results at the site indicate that vapors beneath the building contain elevated levels of CVOCs. However, the indoor air sample showed that the vapor levels in the former boiler room are below the indoor air action levels. Subslab vapors contained CVOCs at each of the three sampling points. Subslab vapor samples contained three CVOCs: tetrachloroethene (PCE), trichloroethene (TCE), and trans 1,2 dichloroethene (trans 1,2 DCE). The highest vapor levels were PCE, which was present at each of the sampling points. The PCE level in the subslab samples ranged from 300 ppbv to 6100 ppbv. Both TCE and trans 1,2 DCE also were detected at the subslab sampling point near the southeast corner of the building (SS-1). The level of both compounds was less than 1 ppbv. The PCE levels in each of the subslab vapor samples exceed the WDNR action level of 62 ppbv. Vapor sampling analytical results are included in Table 2.

The sampling performed in March 2013 confirmed that CVOC contamination remains at the site. The CVOC level detected in one of the soil and all of the subslab vapors exceed WDNR action levels. Fortunately, the sample of the indoor air indicates that vapor levels within the building do not present a health risk. The information collected during 2013 was submitted to the WDNR. After review of the data the WDNR requested that additional assessment be conducted. In particular, they expressed concerns regarding the extent of hazardous vapor below your building and whether these vapors extend under adjacent structures. Since CVOC vapors are known to emanate from contaminated groundwater the WDNR suggested that further characterization of the groundwater contamination could aid in determining if neighboring properties may be at risk for vapor intrusion.

Recent Sampling

On Jul 29, 2013, Seymour met On-Site Environmental to install borings to attempt to collect a groundwater sample. The borings were installed near the sewer lateral trenches. Unfortunately, we encountered refusal before hitting groundwater. We installed two borings to attempt to get to the groundwater. A soil sample was collected at refusal (15 and 9 feet) in each borings. Neither soil sample had detectable levels of any VOCs. Since installing groundwater wells through the bedrock is relatively expensive we submitted a request to the WDNR to allow us to conduct passive sampling to determine if the CVOCs at the site could be migrating on to neighboring properties. The WNDR agreed with our approach.

In June/July 2014 additional vapor intrusion potential data were collected at the site. Two types of vapor information were collected, passive vapor samples and sub-slab vapor samples. The passive data was collected around the site to evaluate the general distribution of CVOCs. The passive sampling does not provide a concentration of contaminants in the subsurface. Instead, the data provides the total mass of contaminants passing near the point over the sampling period. The contaminants identified using this method may originate from soil gases, contaminated soil, or off-gassing from contaminated groundwater.

Passive vapor probes were installed at the site on June 4, 2014. A total of 7 points were placed around the building. The sampling locations were selected to establish the distribution of CVOCs at the site near utility trenches as well as determining whether vapors may be present on the neighboring property to the south. Shallow (10-14") boreholes were installed at each of the sampling locations. A collector tube containing adsorptive media was placed in each of the boreholes. A foil seal was placed above the each collector tube and the surface was sealed with material similar to the adjacent surface (soil, asphalt). On June 13th after 9 days the collector tubes were removed. The tubes were sealed, chain of custody and sampling forms were completed, and the samples were submitted to Beacon Environmental Services for analysis. The passive vapor samples were analyzed for VOCs including the chlorinated compounds (CVOCs) associated with dry cleaning activities. The Beacon report is attached.

CVOCs were identified in 5 of the 7 samples. Significant levels of CVOCs were detected at two of the passive sampling points, PS-6 and PS-7. These locations are located along the sanitary sewer service exiting the northeast side of the building (PS-6), and the sanitary sewer beneath the building (PS-7). A number of CVOCs were detected in each of these points. The highest CVOC levels were tetrachloroethene. Tetrachloroethene (PCE) was present at 127 nanograms (PS-6) and 11,230 nanograms (PS-7) at these sampling points. Sample PS-7 was installed within the former subslab probe SS-3 where tetrachloroethene has been identified at 6,110 vppb in early 2013. The most widespread CVOC detected was trans 1, 2 dichloroethene which was present in 5 of the 7 samples. The trans 1, 2 dichloroethene level ranged from <10 to 27 nanograms. The samples where trans 1, 2 dichloroethene was detected are located beneath the building and immediately surrounding the building on the north, south and east sides. This is the general area where CVOCs were identified previously. A map showing the sampling locations and distribution of PCE is included as Figure 4. Analytical data from the passive sampling are summarized in Table 2.

A second round of vapor sampling was conducted at the site in June 2014. The objective of the sample was to evaluate the extent of hazardous vapors beneath the building slab. On June 4, 2014 vapor probes were installed at three locations in the building. Two sub-slab probes were installed near the western edge of the building (SS-4 and SS-5) and the third probe (SS-3A) was installed near a previous sampling location but slightly further from the sewer lines. To install the sub-slab probes a 1.25" hole was drilled through the concrete floor and advanced to a depth of approximately 12-14 inches. A stainless steel sampling tip attached to a length of 1/4 OD Teflon tubing was placed in the hole. The area around the probe was filled with clean filtered sand (#30) to ~1 inch below the concrete floor slab. Granular bentonite was placed above the sand and extended upward to the just below the base of the floor. The bentonite was hydrated to provide a seal. The remaining borehole was sealed with hydraulic cement.

Vapor sampling was conducted at the site on July 7-8, 2014. The vapor samples were collected using a 6-liter Summa canister provided by the Wisconsin State Lab of Hygiene. The sub-slab sampling canisters were equipped with a regulator so that the canister filled over a 30-minute period limiting the flow to approximately 200 ml/min. The canister used to collect the indoor air sample was equipped with a regulator so that it filled over a 24 hour period. The vapor sample was analyzed for CVOCs.

Prior to collecting the sub-slab and soil gas samples a plastic well was placed around the sampling probe and sealed to the floor/ground with putty. A vacuum test was performed to ensure that the sampling lines did not leak. A vacuum of 17-19 inches Hg was applied to the sampling line. The vacuum was checked and fittings were tightened if leakage was noted. After the lines appeared to be tight the vacuum was monitored for a 5-minute period. No vacuum loss was noted during the monitoring period. After the vacuum test was passed the area within the containment well was filled with 80 lb bentonite slurry to the 100 ml mark on the well. A small amount of air (~50 ml) was pumped into the ground via the sampling probe to look for leakage in the seal. No air bubbles were noted within the bentonite slurry inside the containment well so the surface seal appeared to be tight. Subsequently, 250 ml of vapor was pumped out of the sampling probe to purge the area around the point. Lastly, after the vacuum and surface leakage tests were completed satisfactorily the valve on the Summa canister was opened to collect the vapor sample.

Vapor sampling results at the site indicate that vapors beneath the building contain CVOCs. Only one analyte was detected in the sub-slab samples, tetrachloroethene (PCE). It should be noted, however, that the detection levels for other CVOCs were elevated significantly in the most highly contaminated sample (SS-3A). The PCE level in the vapors beneath the northeast portion of the building (SS-3A) was very high, 3,700 ppbv. This is slightly lower than the value measured at SS-3 which is located about 2 feet nearer to the sewer line. The PCE level in the vapors beneath the northwestern part of the building (SS-4) was also high (480 ppbv) and exceeded the WDNR sub-slab screening level for non-residential buildings of 270 vppb. The sub-slab vapor levels in the southwestern portion of the building were much lower (SS-5). Only PCE was detected in this area; the concentration was 8.2 vppb. Vapor sampling data is summarized in Table 3 and sample locations are shown on Figure 5.

Indoor samples show that CVOCs are present in the indoor air in the buildings at the subject parcel. The contaminant levels detected in the indoor air were below the health advisory standards for both non-residential and residential properties. The only CVOC detected in the indoor air samples was PCE. The PCE concentrations in the indoor air samples were approximately 0.3 ppbv. This concentration is below the acceptable indoor air quality standard. Results of the indoor air sampling are included on Table 3.

Conclusions

Data collected at the site confirms that the presence of CVOCs in the subsurface is a concern at the site. Soil analytical data collected in 1999 and 2013 indicate that contaminants are present in the shallow soils (Figure 6) at levels that may be a source for continued groundwater contamination. The historic groundwater data supports this since PCE was identified at levels exceeding the NR140 ES in the groundwater on the northern portion of the site.

Sub-slab vapor sampling confirms that PCE is present at levels exceeding the standards beneath the north and east portions of the building. The hazardous vapor levels do not appear to extend beneath the southwestern part of the building. The passive gas sampling indicates that the high levels of CVOCs in the shallow soil vapors are restricted to the immediate area of the building. No significant CVOCs were noted in passive sampling points located away from the building including the point immediately south of the building. Based on this, we believe that accumulation of hazardous vapor levels in nearby buildings is unlikely.

Indoor air sampling shows that currently the air inside the building does not contain CVOCs at levels which are considered to be hazardous.

Recommendations

Since the site was previously closed we do not believe that the newly-collected data warrants additional characterization of the soil and groundwater contamination associated with the site. However, the hazardous vapors beneath the slab may require mitigation. Mitigation of the subslab vapors will require installation of an air removal system which will depressurize the soils beneath the slab. We believe it may be possible to accomplish this using the trenches for the sanitary sewers that exist beneath the building. A screened point could be installed into the sewer trench backfill and attached to a regenerative blower. The blower would pull the vapors from beneath the slab and discharge them to the outside air where they no longer present a health risk.

Please contact me or Mark Fryman at 608-838-9120 to discuss this project, our client would like to resolve this issue so the property can be sold in the future.

Sincerely,

Seymour Environmental Services, Inc.



Robyn Seymour, P.G.
Hydrogeologist

Attachments

Tables (3)
Figures (6)
Lab Reports

Cc: John Schroeckenthaler, Property Owner
John Pinger, Northland Real Estate

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA
Former Superior Health Linens
1509 Emil Street - Madison, Wisconsin

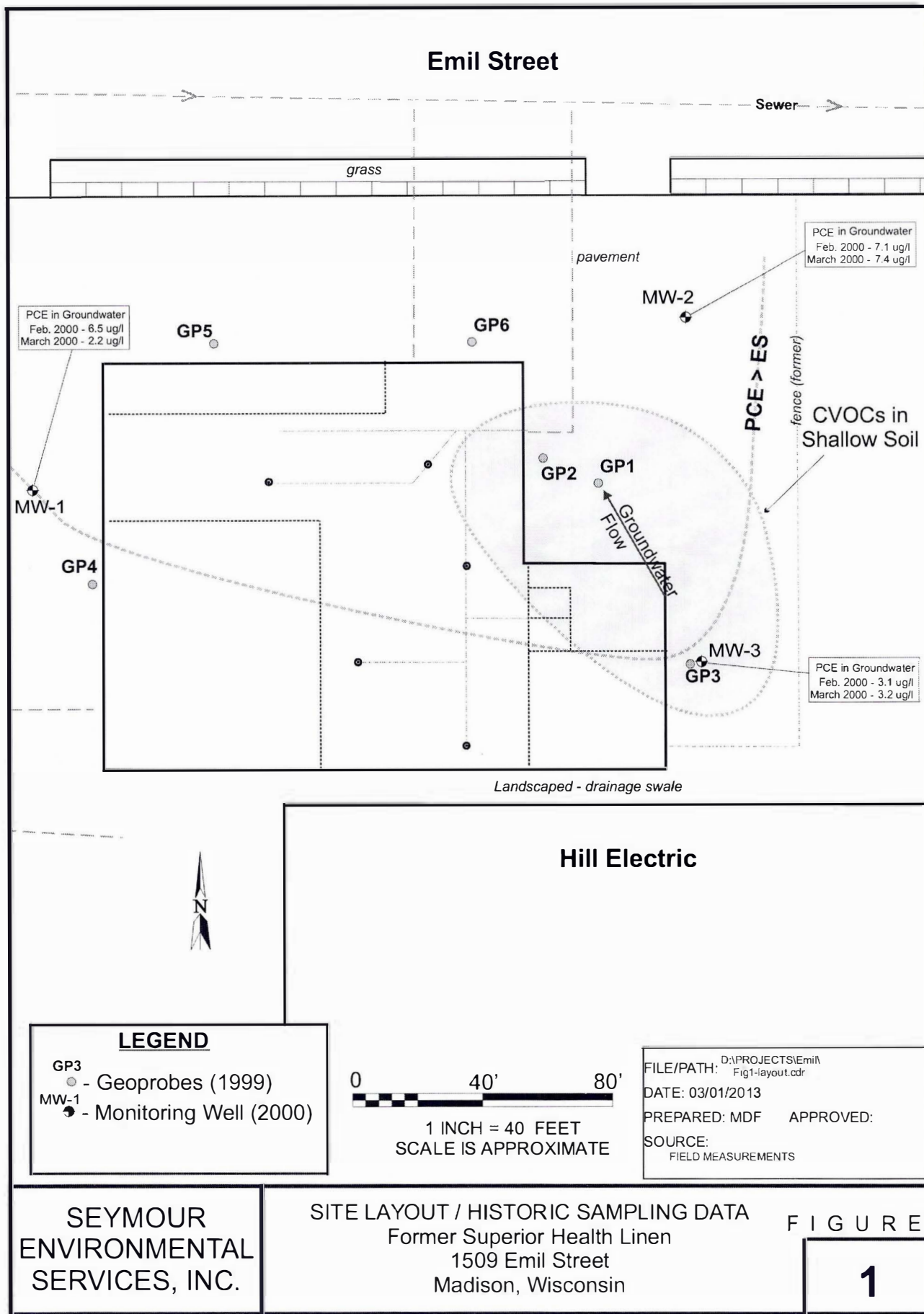
Sampling Date	Sample ID	Depth (ft)	Tetrachloroethene	Trichloroethene	cis 1,2 dichloroethene	trans 1,2 dichloroethene	Vinyl chloride
Feb. 1999	GP-1	8-10	<31	<31	<31	<31	<31
	GP-2	2-4	97	<31	190	<31	<31
	GP-2	8-10	<31	<31	<31	<31	<31
	GP-3	0-2	1280	140	2180	<31	<31
	GP-3	8-10	<31	<31	<31	<31	<31
	GP-4	8-10	<31	<31	<31	<31	<31
	GP-5	6-8	<31	<31	<31	<31	<31
	GP-6	2-4	<31	<31	<31	<31	<31
03/22/13	PIT	1	<25.0	<25.0	<25.0	<25.0	<25.0
	South Drain	0.6	<25.0	<25.0	<25.0	<25.0	<25.0
	North Drain	0.7-1	38.0	<25.0	<25.0	<25.0	<25.0
07/29/13	B-1	15	<25.0	<25.0	<25.0	<25.0	<25.0
	B-2	9	<25.0	<25.0	<25.0	<25.0	<25.0
Groundwater Protection Standard			4.5	3.6	41.2	58.8	0.1
Direct Contact Hazard Level			30,700	644	156,000	211,000	67
- Results are reported in ug/kg - ns = no standard established				- Bold Values exceed groundwater protection standard - Standards from WDNR R&R Calculator (DAF = 2)			

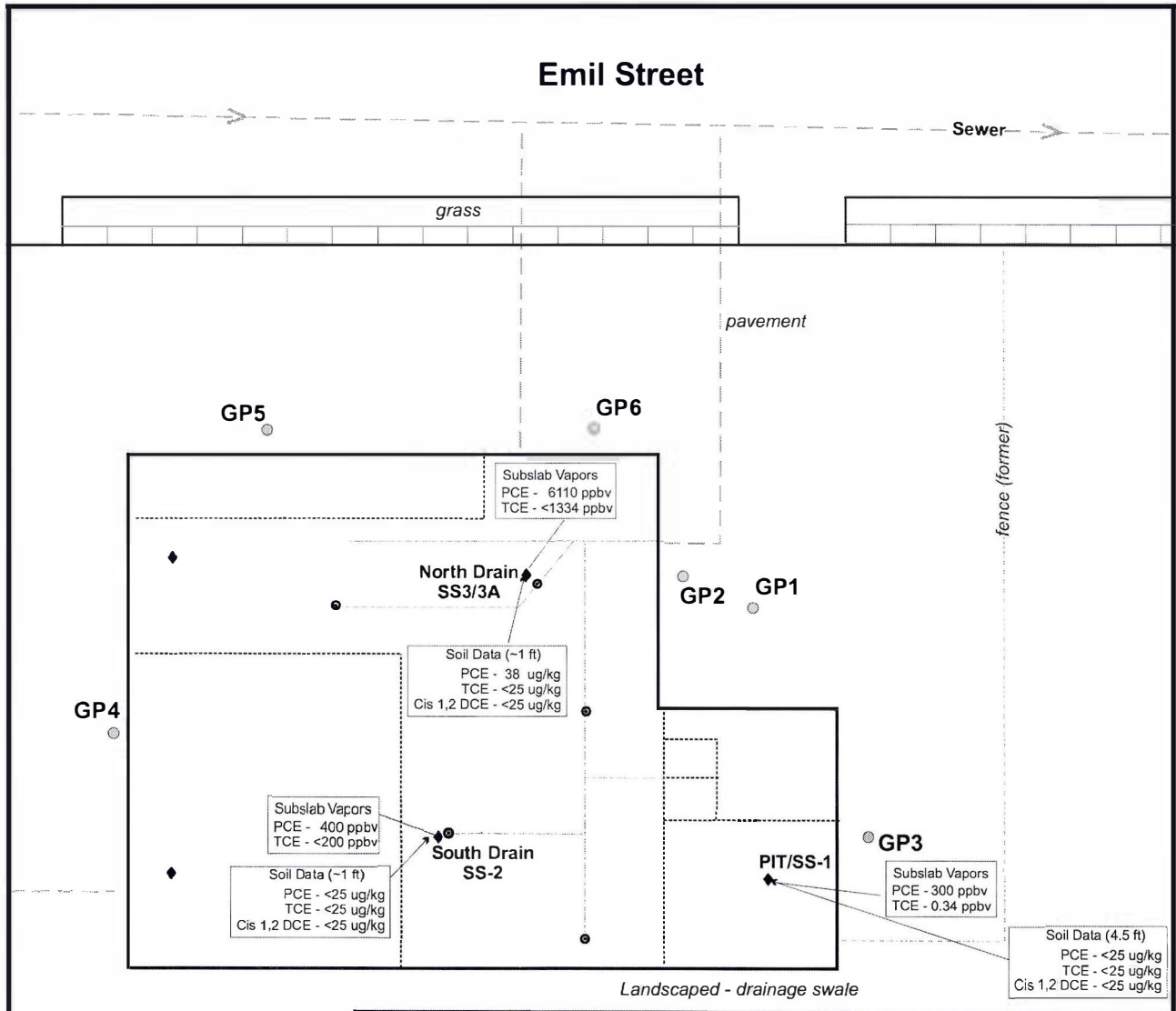
TABLE 2
SUMMARY OF PASSIVE VAPOR ANALYTICAL DATA
Former Superior Health Linens
1509 Emil Street - Madison, Wisconsin

SAMPLE ID	PS-1	PS-2	PS-3	PS-4	PS-5	PS-6	PS-7
Tetrachloroethene	<10	<10	<10	<10	<10	127	11230
Trichloroethene	<10	<10	<10	<10	<10	27	321
cis 1,2 dichloroethene	<10	<10	<10	<10	<10	32	34
trans 1,2 dichloroethene	11	<10	13	<10	18	27	21
Vinyl chloride	<10	<10	<10	<10	<10	95	<10
Chloroform	<25	<25	<25	<25	<25	<25	57
- Analytical results listed in nanograms - Detected values shown in bold							

TABLE 3
SUMMARY OF VAPOR ANALYTICAL DATA
Former Superior Health Linens
1509 Emil Street - Madison, Wisconsin

SUBSLAB SAMPLING RESULTS						
Sampling Date	Sample ID	Tetrachloroethene	Trichloroethene	cis 1,2 dichloroethene	trans 1,2 dichloroethene	Vinyl chloride
3/25/2013	SS-1	300	0.340	<0.085	0.220	<0.085
	SS-2	435	<200	<200	<200	<200
	SS-3	6110	<1334	<1334	<1334	<1334
6/13/2014	SS-3A	3700	<130	<130	<130	<130
	SS-4	480	<6.4	<6.4	<6.4	<6.4
	SS-5	8.1	<2.1	<2.1	<2.1	<2.1
INDOOR AIR SAMPLING RESULTS						
3/25/2013	Loading Dock	0.28	<0.085	<0.085	<0.085	<0.085
6/13/2014	Office	0.33	<0.085	<0.085	<0.085	<0.085
Non-residential Properties						
Indoor Air Standard		27	1.6	ne	65	11
Subslab Screening Level (10x)		270	16	ne	650	110
- Results are reported in vapor part per billion (vppb) - Bold Values exceed indoor air quality standard - ne = no standard established - Shaded values exceed subslab screening level						





LEGEND

- GP3 - Geoprobe (1999)
- MW-1 - Monitoring Well (2000)
- B5 - Seymour Sample

0 40' 80'

1 INCH = 40 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\Emil\Fig2.cdr

DATE: 03/01/2013

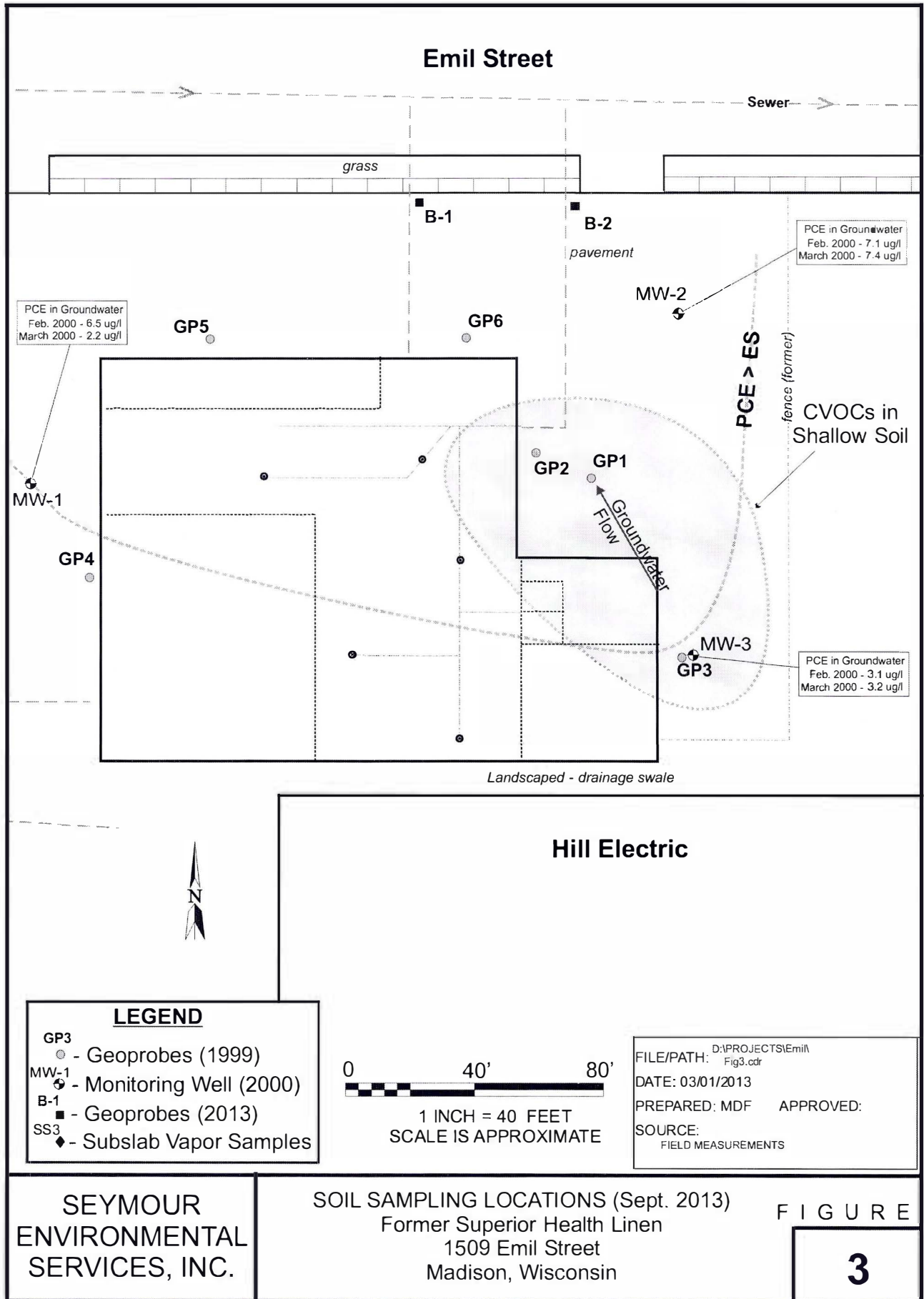
PREPARED: MDF APPROVED:

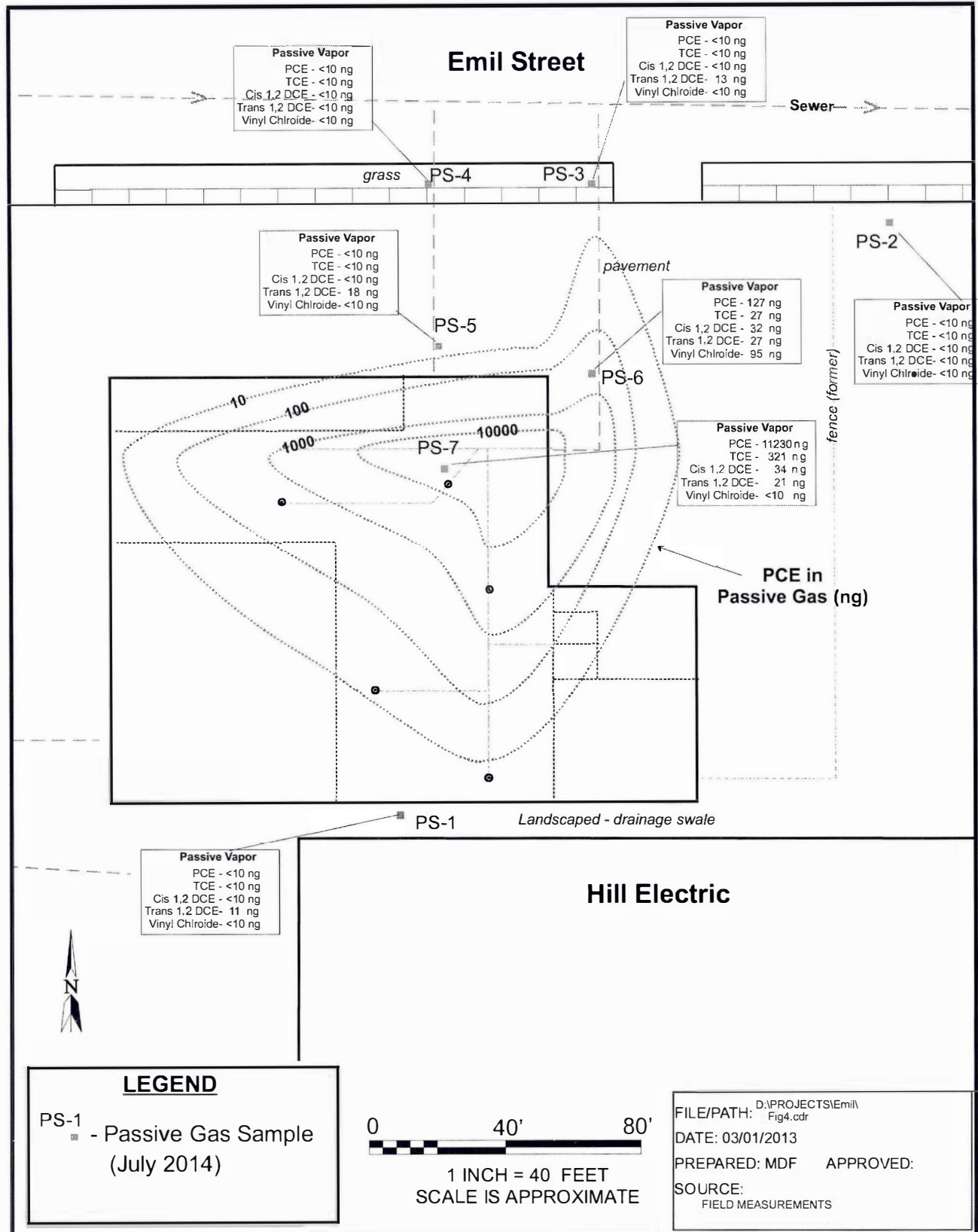
SOURCE: FIELD MEASUREMENTS

**SEYMOUR
ENVIRONMENTAL
SERVICES, INC.**

SAMPLING DATA - Early 2013
Former Superior Health Linen
1509 Emil Street
Madison, Wisconsin

**FIGURE
2**



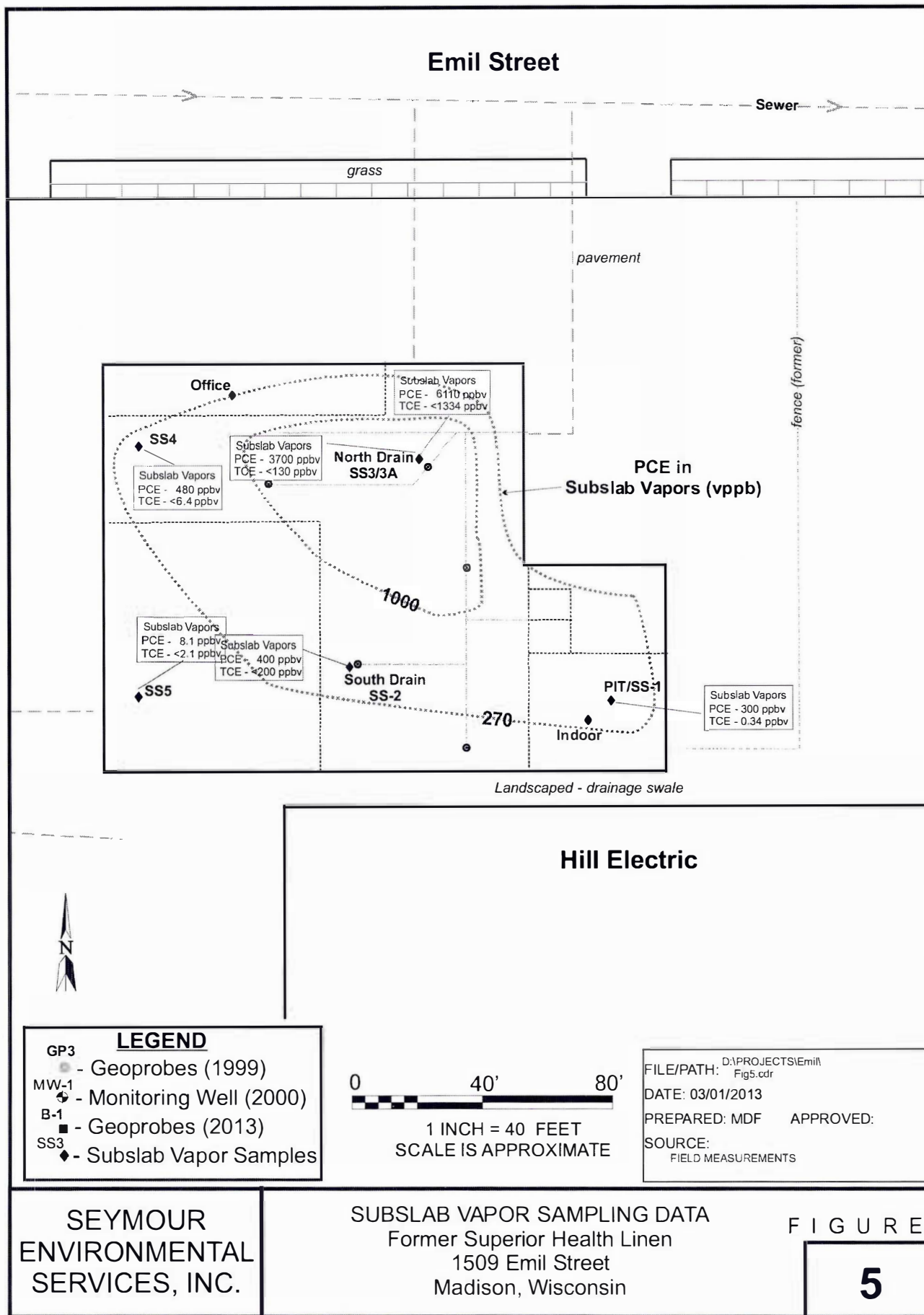


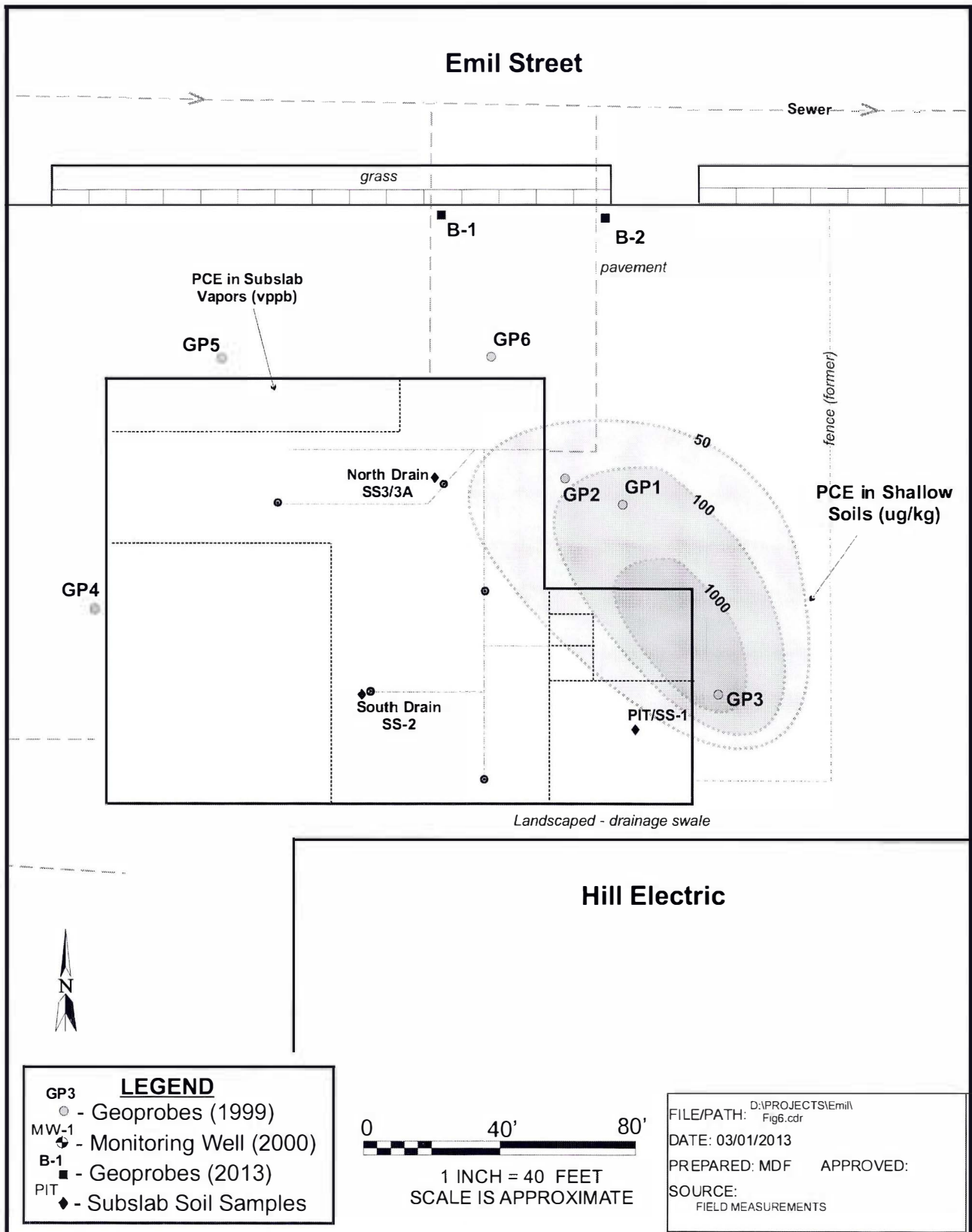
SEYMOUR
ENVIRONMENTAL
SERVICES, INC.

PASSIVE GAS SAMPLING DATA
Former Superior Health Linen
1509 Emil Street
Madison, Wisconsin

FIGURE

4





LEGEND

- - Geoprobos (1999)
- MW-1 ◐ - Monitoring Well (2000)
- B-1 ■ - Geoprobos (2013)
- PIT ◈ - Subslab Soil Samples

0 40' 80'

1 INCH = 40 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\Emil\Fig6.cdr
DATE: 03/01/2013
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

SEYMOUR ENVIRONMENTAL SERVICES, INC.

IDENTIFIED SOIL CONTAMINATION
Former Superior Health Linen
1509 Emil Street
Madison, Wisconsin

FIGURE
6



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

April 03, 2013

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: EMIL STREET
Pace Project No.: 4075414

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2013. 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

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without the written consent of Pace Analytical Services, Inc.



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

CERTIFICATIONS

Project: EMIL STREET

Pace Project No.: 4075414

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 Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Page 2 of 15

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

SAMPLE SUMMARY

Project: EMIL STREET
Pace Project No.: 4075414

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4075414001	PIT	Solid	03/22/13 10:50	03/26/13 09:50
4075414002	SOUTH DRAIN-8"	Solid	03/22/13 11:17	03/26/13 09:50
4075414003	NORTH DRAIN 9-12"	Solid	03/22/13 11:40	03/26/13 09:50

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: EMIL STREET

Pace Project No.: 4075414

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4075414001	PIT	EPA 8260	SMT	64
		ASTM D2974-87	MAV	1
4075414002	SOUTH DRAIN-8"	EPA 8260	SMT	64
		ASTM D2974-87	MAV	1
4075414003	NORTH DRAIN 9-12"	EPA 8260	SMT	64
		ASTM D2974-87	MAV	1

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ANALYTICAL RESULTS

Project: EMIL STREET
 Pace Project No.: 4075414

Sample: PIT Lab ID: 4075414001 Collected: 03/22/13 10:50 Received: 03/26/13 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

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									
Benzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	75-27-4	W
Bromoform	<25.9	ug/kg	60.0	25.9	1	03/27/13 10:43	03/27/13 15:40	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	74-83-9	W
n-Butylbenzene	<40.4	ug/kg	60.0	40.4	1	03/27/13 10:43	03/27/13 15:40	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	106-43-4	W
1,2-Dibromo-3-chloropropane	<82.3	ug/kg	250	82.3	1	03/27/13 10:43	03/27/13 15:40	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	74-95-3	W
1,2-Dichlorobenzene	<44.4	ug/kg	60.0	44.4	1	03/27/13 10:43	03/27/13 15:40	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	100-41-4	W
Hexachloro-1,3-butadiene	<26.4	ug/kg	60.0	26.4	1	03/27/13 10:43	03/27/13 15:40	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	100-42-5	W



ANALYTICAL RESULTS

Project: EMIL STREET
 Pace Project No.: 4075414

Sample: PIT Lab ID: 4075414001 Collected: 03/22/13 10:50 Received: 03/26/13 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

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									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	87-61-6	W
1,2,4-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	03/27/13 10:43	03/27/13 15:40	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 15:40	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	106 %		57-130		1	03/27/13 10:43	03/27/13 15:40	1868-53-7	
Toluene-d8 (S)	105 %		54-133		1	03/27/13 10:43	03/27/13 15:40	2037-26-5	
4-Bromofluorobenzene (S)	104 %		49-130		1	03/27/13 10:43	03/27/13 15:40	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	1.2 %		0.10	0.10	1		04/02/13 14:49		
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Sample: SOUTH DRAIN-8" Lab ID: 4075414002 Collected: 03/22/13 11:17 Received: 03/26/13 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

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									
Benzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	75-27-4	W
Bromoform	<25.9	ug/kg	60.0	25.9	1	03/27/13 10:43	03/27/13 16:02	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	74-83-9	W
n-Butylbenzene	<40.4	ug/kg	60.0	40.4	1	03/27/13 10:43	03/27/13 16:02	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	67-66-3	W



ANALYTICAL RESULTS

Project: EMIL STREET

Pace Project No.: 4075414

Sample: SOUTH DRAIN-8" Lab ID: 4075414002 Collected: 03/22/13 11:17 Received: 03/26/13 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA8260 Preparation Method: EPA 5035/5030B							
Chloromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	106-43-4	W
1,2-Dibromo-3-chloropropane	<82.3	ug/kg	250	82.3	1	03/27/13 10:43	03/27/13 16:02	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	74-95-3	W
1,2-Dichlorobenzene	<44.4	ug/kg	60.0	44.4	1	03/27/13 10:43	03/27/13 16:02	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	100-41-4	W
Hexachloro-1,3-butadiene	<26.4	ug/kg	60.0	26.4	1	03/27/13 10:43	03/27/13 16:02	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	87-61-6	W
1,2,4-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	108-67-8	W



ANALYTICAL RESULTS

Project: EMIL STREET

Pace Project No.: 4075414

Sample: SOUTH DRAIN-8" Lab ID: 4075414002 Collected: 03/22/13 11:17 Received: 03/26/13 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

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							
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	03/27/13 10:43	03/27/13 16:02	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 16:02	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	91 %		57-130		1	03/27/13 10:43	03/27/13 16:02	1868-53-7	
Toluene-d8 (S)	109 %		54-133		1	03/27/13 10:43	03/27/13 16:02	2037-26-5	
4-Bromofluorobenzene (S)	109 %		49-130		1	03/27/13 10:43	03/27/13 16:02	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	19.7 %		0.10	0.10	1		04/02/13 14:50		

Sample: NORTH DRAIN 9-12" Lab ID: 4075414003 Collected: 03/22/13 11:40 Received: 03/26/13 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

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							
Benzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	75-27-4	W
Bromoform	<25.9	ug/kg	60.0	25.9	1	03/27/13 10:43	03/27/13 17:34	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	74-83-9	W
n-Butylbenzene	<40.4	ug/kg	60.0	40.4	1	03/27/13 10:43	03/27/13 17:34	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	106-43-4	W
1,2-Dibromo-3-chloropropane	<82.3	ug/kg	250	82.3	1	03/27/13 10:43	03/27/13 17:34	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	74-95-3	W
1,2-Dichlorobenzene	<44.4	ug/kg	60.0	44.4	1	03/27/13 10:43	03/27/13 17:34	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	107-06-2	W



ANALYTICAL RESULTS

Project: EMIL STREET

Pace Project No.: 4075414

Sample: NORTH DRAIN 9-12" Lab ID: 4075414003 Collected: 03/22/13 11:40 Received: 03/26/13 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

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									
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	100-41-4	W
Hexachloro-1,3-butadiene	<26.4	ug/kg	60.0	26.4	1	03/27/13 10:43	03/27/13 17:34	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	79-34-5	W
Tetrachloroethene	38.0J	ug/kg	60.4	25.2	1	03/27/13 10:43	03/27/13 17:34	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	87-61-6	W
1,2,4-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	03/27/13 10:43	03/27/13 17:34	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	03/27/13 10:43	03/27/13 17:34	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	91 %		57-130		1	03/27/13 10:43	03/27/13 17:34	1868-53-7	
Toluene-d8 (S)	101 %		54-133		1	03/27/13 10:43	03/27/13 17:34	2037-26-5	
4-Bromofluorobenzene (S)	101 %		49-130		1	03/27/13 10:43	03/27/13 17:34	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	0.64 %		0.10	0.10	1		04/02/13 14:50		
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QUALITY CONTROL DATA

Project: EMIL STREET

Pace Project No.: 4075414

QC Batch: MSV/18980 Analysis Method: EPA 8260
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
 Associated Lab Samples: 4075414001, 4075414002, 4075414003

METHOD BLANK: 765650 Matrix: Solid

Associated Lab Samples: 4075414001, 4075414002, 4075414003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<25.0	60.0	03/27/13 09:09	
1,1,1-Trichloroethane	ug/kg	<25.0	60.0	03/27/13 09:09	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	60.0	03/27/13 09:09	
1,1,2-Trichloroethane	ug/kg	<25.0	60.0	03/27/13 09:09	
1,1-Dichloroethane	ug/kg	<25.0	60.0	03/27/13 09:09	
1,1-Dichloroethene	ug/kg	<25.0	60.0	03/27/13 09:09	
1,1-Dichloropropene	ug/kg	<25.0	60.0	03/27/13 09:09	
1,2,3-Trichlorobenzene	ug/kg	<25.0	60.0	03/27/13 09:09	
1,2,3-Trichloropropane	ug/kg	<25.0	60.0	03/27/13 09:09	
1,2,4-Trichlorobenzene	ug/kg	<25.0	60.0	03/27/13 09:09	
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	03/27/13 09:09	
1,2-Dibromo-3-chloropropane	ug/kg	<82.3	250	03/27/13 09:09	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	60.0	03/27/13 09:09	
1,2-Dichlorobenzene	ug/kg	<44.4	60.0	03/27/13 09:09	
1,2-Dichloroethane	ug/kg	<25.0	60.0	03/27/13 09:09	
1,2-Dichloropropane	ug/kg	<25.0	60.0	03/27/13 09:09	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	03/27/13 09:09	
1,3-Dichlorobenzene	ug/kg	<25.0	60.0	03/27/13 09:09	
1,3-Dichloropropane	ug/kg	<25.0	60.0	03/27/13 09:09	
1,4-Dichlorobenzene	ug/kg	<25.0	60.0	03/27/13 09:09	
2,2-Dichloropropane	ug/kg	<25.0	60.0	03/27/13 09:09	
2-Chlorotoluene	ug/kg	<25.0	60.0	03/27/13 09:09	
4-Chlorotoluene	ug/kg	<25.0	60.0	03/27/13 09:09	
Benzene	ug/kg	<25.0	60.0	03/27/13 09:09	
Bromobenzene	ug/kg	<25.0	60.0	03/27/13 09:09	
Bromochloromethane	ug/kg	<25.0	60.0	03/27/13 09:09	
Bromodichloromethane	ug/kg	<25.0	60.0	03/27/13 09:09	
Bromoform	ug/kg	<25.9	60.0	03/27/13 09:09	
Bromomethane	ug/kg	<25.0	60.0	03/27/13 09:09	
Carbon tetrachloride	ug/kg	<25.0	60.0	03/27/13 09:09	
Chlorobenzene	ug/kg	<25.0	60.0	03/27/13 09:09	
Chloroethane	ug/kg	<25.0	60.0	03/27/13 09:09	
Chloroform	ug/kg	<25.0	60.0	03/27/13 09:09	
Chloromethane	ug/kg	<25.0	60.0	03/27/13 09:09	
cis-1,2-Dichloroethene	ug/kg	<25.0	60.0	03/27/13 09:09	
cis-1,3-Dichloropropene	ug/kg	<25.0	60.0	03/27/13 09:09	
Dibromochloromethane	ug/kg	<25.0	60.0	03/27/13 09:09	
Dibromomethane	ug/kg	<25.0	60.0	03/27/13 09:09	
Dichlorodifluoromethane	ug/kg	<25.0	60.0	03/27/13 09:09	
Diisopropyl ether	ug/kg	<25.0	60.0	03/27/13 09:09	
Ethylbenzene	ug/kg	<25.0	60.0	03/27/13 09:09	
Hexachloro-1,3-butadiene	ug/kg	<26.4	60.0	03/27/13 09:09	
Isopropylbenzene (Cumene)	ug/kg	<25.0	60.0	03/27/13 09:09	

Date: 04/03/2013 10:06 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EMIL STREET

Pace Project No.: 4075414

METHOD BLANK: 765650 Matrix: Solid

Associated Lab Samples: 4075414001, 4075414002, 4075414003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/kg	<50.0	120	03/27/13 09:09	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	03/27/13 09:09	
Methylene Chloride	ug/kg	<25.0	60.0	03/27/13 09:09	
n-Butylbenzene	ug/kg	<40.4	60.0	03/27/13 09:09	
n-Propylbenzene	ug/kg	<25.0	60.0	03/27/13 09:09	
Naphthalene	ug/kg	<25.0	60.0	03/27/13 09:09	
o-Xylene	ug/kg	<25.0	60.0	03/27/13 09:09	
p-Isopropyltoluene	ug/kg	<25.0	60.0	03/27/13 09:09	
sec-Butylbenzene	ug/kg	<25.0	60.0	03/27/13 09:09	
Styrene	ug/kg	<25.0	60.0	03/27/13 09:09	
tert-Butylbenzene	ug/kg	<25.0	60.0	03/27/13 09:09	
Tetrachloroethene	ug/kg	<25.0	60.0	03/27/13 09:09	
Toluene	ug/kg	<25.0	60.0	03/27/13 09:09	
trans-1,2-Dichloroethene	ug/kg	<25.0	60.0	03/27/13 09:09	
trans-1,3-Dichloropropene	ug/kg	<25.0	60.0	03/27/13 09:09	
Trichloroethene	ug/kg	<25.0	60.0	03/27/13 09:09	
Trichlorofluoromethane	ug/kg	<25.0	60.0	03/27/13 09:09	
Vinyl chloride	ug/kg	<25.0	60.0	03/27/13 09:09	
4-Bromofluorobenzene (S)	%	109	49-130	03/27/13 09:09	
Dibromofluoromethane (S)	%	109	57-130	03/27/13 09:09	
Toluene-d8 (S)	%	104	54-133	03/27/13 09:09	

LABORATORY CONTROL SAMPLE & LCSD: 765651 765652

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2710	2850	109	114	70-130	5	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2210	2200	88	88	70-130	0	20	
1,1,2-Trichloroethane	ug/kg	2500	2350	2350	94	94	70-130	0	20	
1,1-Dichloroethane	ug/kg	2500	2640	2550	106	102	70-130	4	20	
1,1-Dichloroethene	ug/kg	2500	2520	2530	101	101	64-130	0	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2680	2680	107	107	68-130	0	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2310	2330	93	93	50-150	0	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2520	2460	101	98	70-130	3	20	
1,2-Dichlorobenzene	ug/kg	2500	2310	2230	92	89	70-130	3	20	
1,2-Dichloroethane	ug/kg	2500	3230	3070	129	123	70-130	5	20	
1,2-Dichloropropane	ug/kg	2500	2330	2430	93	97	70-130	4	20	
1,3-Dichlorobenzene	ug/kg	2500	2470	2410	99	96	70-130	2	20	
1,4-Dichlorobenzene	ug/kg	2500	2300	2280	92	91	70-130	1	20	
Benzene	ug/kg	2500	3130	2990	125	120	70-130	5	20	
Bromodichloromethane	ug/kg	2500	2340	2440	94	98	70-130	4	20	
Bromoform	ug/kg	2500	2190	2220	87	89	63-130	1	20	
Bromomethane	ug/kg	2500	1640	1660	65	66	41-142	2	20	
Carbon tetrachloride	ug/kg	2500	2990	3110	120	124	70-130	4	20	
Chlorobenzene	ug/kg	2500	2460	2410	98	96	70-130	2	20	
Chloroethane	ug/kg	2500	1960	2030	78	81	57-130	4	20	

Date: 04/03/2013 10:06 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EMIL STREET

Pace Project No.: 4075414

LABORATORY CONTROL SAMPLE & LCSD:		765651	765652				% Rec		Max	
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	RPD	Qualifiers
Chloroform	ug/kg	2500	2580	2560	103	103	70-130	1	20	
Chloromethane	ug/kg	2500	2720	2730	109	109	57-130	0	20	
cis-1,2-Dichloroethene	ug/kg	2500	2440	2430	98	97	70-130	0	20	
cis-1,3-Dichloropropene	ug/kg	2500	2040	2090	82	83	70-130	2	20	
Dibromochloromethane	ug/kg	2500	2260	2230	90	89	70-130	1	20	
Dichlorodifluoromethane	ug/kg	2500	2440	2550	97	102	31-150	5	20	
Ethylbenzene	ug/kg	2500	2400	2360	96	95	65-137	2	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2520	2460	101	98	70-130	3	20	
m&p-Xylene	ug/kg	5000	4970	4910	99	98	64-139	1	20	
Methyl-tert-butyl ether	ug/kg	2500	2630	2590	105	104	69-130	1	20	
Methylene Chloride	ug/kg	2500	2510	2450	100	98	70-130	3	20	
o-Xylene	ug/kg	2500	2600	2560	104	102	63-135	2	20	
Styrene	ug/kg	2500	2370	2410	95	96	69-130	2	20	
Tetrachloroethene	ug/kg	2500	2470	2430	99	97	70-130	2	20	
Toluene	ug/kg	2500	2440	2440	98	98	70-130	0	20	
trans-1,2-Dichloroethene	ug/kg	2500	2470	2490	99	99	70-130	1	20	
trans-1,3-Dichloropropene	ug/kg	2500	2230	2240	89	90	70-130	0	20	
Trichloroethene	ug/kg	2500	2410	2530	96	101	70-130	5	20	
Trichlorofluoromethane	ug/kg	2500	2430	2470	97	99	50-150	2	20	
Vinyl chloride	ug/kg	2500	2930	2870	117	115	57-130	2	20	
4-Bromofluorobenzene (S)	%				114	112	49-130			
Dibromofluoromethane (S)	%				114	109	57-130			
Toluene-d8 (S)	%				106	103	54-133			



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

QUALITY CONTROL DATA

Project: EMIL STREET

Pace Project No.: 4075414

QC Batch: PMST/8308

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 4075414001, 4075414002, 4075414003

SAMPLE DUPLICATE: 768413

Parameter	Units	4075673001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.1	7.2	1	10	



QUALIFIERS

Project: EMIL STREET
Pace Project No.: 4075414

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.

BATCH QUALIFIERS

Batch: MSV/18982

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

ANALYTE QUALIFIERS

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



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EMIL STREET
Pace Project No.: 4075414

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4075414001	PIT	EPA 5035/5030B	MSV/18980	EPA 8260	MSV/18982
4075414002	SOUTH DRAIN-8"	EPA 5035/5030B	MSV/18980	EPA 8260	MSV/18982
4075414003	NORTH DRAIN 9-12"	EPA 5035/5030B	MSV/18980	EPA 8260	MSV/18982
4075414001	PIT	ASTM D2974-87	PMST/8308		
4075414002	SOUTH DRAIN-8"	ASTM D2974-87	PMST/8308		
4075414003	NORTH DRAIN 9-12"	ASTM D2974-87	PMST/8308		



CHAIN-OF-CUSTODY / Analytical Request Document

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

4075414

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: of	
Company: Seymour		Report To:		Attention:		1500469	
Address: 2531 Pyreson McFarland		Copy To:		Company Name:		REGULATORY AGENCY	
Email To: rseymour@chorus.net		Purchase Order No.:		Address:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Phone: 608 225 9407 Fax:		Project Name: Emil Street		Pace Quote Reference:		Site Location	
Requested Due Date/TAT:		Project Number:		Pace Project Manager:		STATE: _____	
				Pace Profile #:			

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other					
					DATE	TIME	DATE	TIME															
1	001 Pit				3/22		3/22	1050	2	1													1-402pA, 1-40206P
2	002 South Drain - 8"				1		1	1117	2	1													↓
3	003 North Drain 9-12"				1		1	1140	2	1													↓
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
Dunkham	Dunkham	3/24/13	0950	Jessica Wylie Pace	3/24/13	0950	Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)			

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Robyn Seymour				
SIGNATURE of SAMPLER:	Robyn Seymour				
	DATE Signed (MM/DD/YY):				

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



Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9

Green Bay, WI 54302

(920)469-2436

August 13, 2013

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: EMIL STREET
Pace Project No.: 4082341

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2013. 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

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CERTIFICATIONS

Project: EMIL STREET
Pace Project No.: 4082341

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 Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: EMIL STREET
Pace Project No.: 4082341

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4082341001	B-1, 15'	Solid	07/29/13 14:30	08/06/13 07:55
4082341002	B-2, 9'	Solid	07/29/13 15:00	08/06/13 07:55

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SAMPLE SUMMARY

Project: EMIL STREET
Pace Project No.: 4082341

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4082341001	B-1, 15'	Solid	07/29/13 14:30	08/06/13 07:55
4082341002	B-2, 9'	Solid	07/29/13 15:00	08/06/13 07:55

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SAMPLE ANALYTE COUNT

Project: EMIL STREET
Pace Project No.: 4082341

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4082341001	B-1, 15'	EPA 8260	HNW	64
		ASTM D2974-87	AH	1
4082341002	B-2, 9'	EPA 8260	HNW	64
		ASTM D2974-87	AH	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EMIL STREET
Pace Project No.: 4082341

Sample: B-1, 15' Lab ID: 4082341001 Collected: 07/29/13 14:30 Received: 08/06/13 07:55 Matrix: Solid

Results reported on a "dry-weight" basis

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									
Benzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	106-43-4	W
1,2-Dibromo-3-chloropropane	<49.8	ug/kg	250	49.8	1	08/07/13 13:03	08/07/13 14:50	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	100-42-5	W

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ANALYTICAL RESULTS

Project: EMIL STREET
 Pace Project No.: 4082341

Sample: B-1, 15' Lab ID: 4082341001 Collected: 07/29/13 14:30 Received: 08/06/13 07:55 Matrix: Solid

Results reported on a "dry-weight" basis

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									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	87-61-6	W
1,2,4-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/07/13 13:03	08/07/13 14:50	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 14:50	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	88 %		57-130		1	08/07/13 13:03	08/07/13 14:50	1868-53-7	
Toluene-d8 (S)	88 %		54-133		1	08/07/13 13:03	08/07/13 14:50	2037-26-5	
4-Bromofluorobenzene (S)	82 %		49-130		1	08/07/13 13:03	08/07/13 14:50	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	15.0 %		0.10	0.10	1		08/12/13 14:55		
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Sample: B-2, 9' Lab ID: 4082341002 Collected: 07/29/13 15:00 Received: 08/06/13 07:55 Matrix: Solid

Results reported on a "dry-weight" basis

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									
Benzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	67-66-3	W

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ANALYTICAL RESULTS

Project: EMIL STREET
Pace Project No.: 4082341

Sample: B-2, 9' Lab ID: 4082341002 Collected: 07/29/13 15:00 Received: 08/06/13 07:55 Matrix: Solid

Results reported on a "dry-weight" basis

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									
Chloromethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	106-43-4	W
1,2-Dibromo-3-chloropropane	<49.8	ug/kg	250	49.8	1	08/07/13 13:03	08/07/13 15:13	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	87-61-6	W
1,2,4-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	108-67-8	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: EMIL STREET
 Pace Project No.: 4082341

Sample: B-2, 9' Lab ID: 4082341002 Collected: 07/29/13 15:00 Received: 08/06/13 07:55 Matrix: Solid

Results reported on a "dry-weight" basis

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								
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/07/13 13:03	08/07/13 15:13	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/07/13 13:03	08/07/13 15:13	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	92	%	57-130		1	08/07/13 13:03	08/07/13 15:13	1868-53-7	
Toluene-d8 (S)	94	%	54-133		1	08/07/13 13:03	08/07/13 15:13	2037-26-5	
4-Bromofluorobenzene (S)	84	%	49-130		1	08/07/13 13:03	08/07/13 15:13	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	3.0	%	0.10	0.10	1		08/12/13 14:56		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EMIL STREET
Pace Project No.: 4082341

QC Batch: MSV/20757 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 4082341001, 4082341002

METHOD BLANK: 834737 Matrix: Solid

Associated Lab Samples: 4082341001, 4082341002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<25.0	60.0	08/07/13 09:30	
1,1,1-Trichloroethane	ug/kg	<25.0	60.0	08/07/13 09:30	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	60.0	08/07/13 09:30	
1,1,2-Trichloroethane	ug/kg	<25.0	60.0	08/07/13 09:30	
1,1-Dichloroethane	ug/kg	<25.0	60.0	08/07/13 09:30	
1,1-Dichloroethene	ug/kg	<25.0	60.0	08/07/13 09:30	
1,1-Dichloropropene	ug/kg	<25.0	60.0	08/07/13 09:30	
1,2,3-Trichlorobenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
1,2,3-Trichloropropane	ug/kg	<25.0	60.0	08/07/13 09:30	
1,2,4-Trichlorobenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
1,2-Dibromo-3-chloropropane	ug/kg	<49.8	250	08/07/13 09:30	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	60.0	08/07/13 09:30	
1,2-Dichlorobenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
1,2-Dichloroethane	ug/kg	<25.0	60.0	08/07/13 09:30	
1,2-Dichloropropane	ug/kg	<25.0	60.0	08/07/13 09:30	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
1,3-Dichlorobenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
1,3-Dichloropropane	ug/kg	<25.0	60.0	08/07/13 09:30	
1,4-Dichlorobenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
2,2-Dichloropropane	ug/kg	<25.0	60.0	08/07/13 09:30	
2-Chlorotoluene	ug/kg	<25.0	60.0	08/07/13 09:30	
4-Chlorotoluene	ug/kg	<25.0	60.0	08/07/13 09:30	
Benzene	ug/kg	<25.0	60.0	08/07/13 09:30	
Bromobenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
Bromochloromethane	ug/kg	<25.0	60.0	08/07/13 09:30	
Bromodichloromethane	ug/kg	<25.0	60.0	08/07/13 09:30	
Bromoform	ug/kg	<25.0	60.0	08/07/13 09:30	
Bromomethane	ug/kg	<25.0	60.0	08/07/13 09:30	
Carbon tetrachloride	ug/kg	<25.0	60.0	08/07/13 09:30	
Chlorobenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
Chloroethane	ug/kg	<25.0	60.0	08/07/13 09:30	
Chloroform	ug/kg	<25.0	60.0	08/07/13 09:30	
Chloromethane	ug/kg	<25.0	60.0	08/07/13 09:30	
cis-1,2-Dichloroethene	ug/kg	<25.0	60.0	08/07/13 09:30	
cis-1,3-Dichloropropene	ug/kg	<25.0	60.0	08/07/13 09:30	
Dibromochloromethane	ug/kg	<25.0	60.0	08/07/13 09:30	
Dibromomethane	ug/kg	<25.0	60.0	08/07/13 09:30	
Dichlorodifluoromethane	ug/kg	<25.0	60.0	08/07/13 09:30	
Diisopropyl ether	ug/kg	<25.0	60.0	08/07/13 09:30	
Ethylbenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
Hexachloro-1,3-butadiene	ug/kg	<25.0	60.0	08/07/13 09:30	
Isopropylbenzene (Cumene)	ug/kg	<25.0	60.0	08/07/13 09:30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EMIL STREET
Pace Project No.: 4082341

METHOD BLANK: 834737 Matrix: Solid
Associated Lab Samples: 4082341001, 4082341002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/kg	<25.0	120	08/07/13 09:30	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	08/07/13 09:30	
Methylene Chloride	ug/kg	<25.0	60.0	08/07/13 09:30	
n-Butylbenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
n-Propylbenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
Naphthalene	ug/kg	<25.0	60.0	08/07/13 09:30	
o-Xylene	ug/kg	<25.0	60.0	08/07/13 09:30	
p-Isopropyltoluene	ug/kg	<25.0	60.0	08/07/13 09:30	
sec-Butylbenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
Styrene	ug/kg	<25.0	60.0	08/07/13 09:30	
tert-Butylbenzene	ug/kg	<25.0	60.0	08/07/13 09:30	
Tetrachloroethene	ug/kg	<25.0	60.0	08/07/13 09:30	
Toluene	ug/kg	<25.0	60.0	08/07/13 09:30	
trans-1,2-Dichloroethene	ug/kg	<25.0	60.0	08/07/13 09:30	
trans-1,3-Dichloropropene	ug/kg	<25.0	60.0	08/07/13 09:30	
Trichloroethene	ug/kg	<25.0	60.0	08/07/13 09:30	
Trichlorofluoromethane	ug/kg	<25.0	60.0	08/07/13 09:30	
Vinyl chloride	ug/kg	<25.0	60.0	08/07/13 09:30	
4-Bromofluorobenzene (S)	%	81	49-130	08/07/13 09:30	
Dibromofluoromethane (S)	%	92	57-130	08/07/13 09:30	
Toluene-d8 (S)	%	85	54-133	08/07/13 09:30	

LABORATORY CONTROL SAMPLE & LCSD: 834738 834739

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2540	2500	102	100	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2530	2700	101	108	70-130	7	20	
1,1,2-Trichloroethane	ug/kg	2500	2460	2570	98	103	70-130	5	20	
1,1-Dichloroethane	ug/kg	2500	2400	2460	96	99	70-130	3	20	
1,1-Dichloroethene	ug/kg	2500	2510	2440	101	98	64-130	3	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2360	2590	94	103	68-130	9	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2210	2310	88	92	50-150	4	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2440	2490	98	99	70-130	2	20	
1,2-Dichlorobenzene	ug/kg	2500	2440	2550	98	102	70-130	4	20	
1,2-Dichloroethane	ug/kg	2500	2410	2440	96	97	70-130	1	20	
1,2-Dichloropropane	ug/kg	2500	2510	2360	100	94	70-130	6	20	
1,3-Dichlorobenzene	ug/kg	2500	2480	2530	99	101	70-130	2	20	
1,4-Dichlorobenzene	ug/kg	2500	2460	2470	98	99	70-130	1	20	
Benzene	ug/kg	2500	2450	2460	98	99	70-130	0	20	
Bromodichloromethane	ug/kg	2500	2500	2600	100	104	70-130	4	20	
Bromoform	ug/kg	2500	2700	2760	108	111	63-130	2	20	
Bromomethane	ug/kg	2500	2470	2480	99	99	41-142	0	20	
Carbon tetrachloride	ug/kg	2500	2420	2330	97	93	70-130	4	20	
Chlorobenzene	ug/kg	2500	2470	2440	99	98	70-130	1	20	
Chloroethane	ug/kg	2500	2490	2390	99	95	57-130	4	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: EMIL STREET
Pace Project No.: 4082341

LABORATORY CONTROL SAMPLE & LCSD: 834738		834739								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/kg	2500	2450	2410	98	96	70-130	2	20	
Chloromethane	ug/kg	2500	2430	2360	97	94	57-130	3	20	
cis-1,2-Dichloroethene	ug/kg	2500	2390	2370	96	95	70-130	1	20	
cis-1,3-Dichloropropene	ug/kg	2500	2500	2540	100	102	70-130	2	20	
Dibromochloromethane	ug/kg	2500	2430	2450	97	98	70-130	1	20	
Dichlorodifluoromethane	ug/kg	2500	2240	2220	90	89	31-150	1	20	
Ethylbenzene	ug/kg	2500	2560	2540	102	102	65-137	1	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2530	2510	101	101	70-130	1	20	
m&p-Xylene	ug/kg	5000	5090	5070	102	101	64-139	0	20	
Methyl-tert-butyl ether	ug/kg	2500	2410	2410	96	97	69-130	0	20	
Methylene Chloride	ug/kg	2500	2390	2430	96	97	70-130	2	20	
o-Xylene	ug/kg	2500	2600	2540	104	102	63-135	2	20	
Styrene	ug/kg	2500	2590	2560	104	102	69-130	1	20	
Tetrachloroethene	ug/kg	2500	2490	2480	100	99	70-130	0	20	
Toluene	ug/kg	2500	2490	2490	99	100	70-130	0	20	
trans-1,2-Dichloroethene	ug/kg	2500	2510	2470	100	99	70-130	1	20	
trans-1,3-Dichloropropene	ug/kg	2500	2630	2590	105	103	70-130	2	20	
Trichloroethene	ug/kg	2500	2440	2500	98	100	70-130	2	20	
Trichlorofluoromethane	ug/kg	2500	2650	2600	106	104	50-150	2	20	
Vinyl chloride	ug/kg	2500	2410	2520	96	101	57-130	4	20	
4-Bromofluorobenzene (S)	%				98	97	49-130			
Dibromofluoromethane (S)	%				97	92	57-130			
Toluene-d8 (S)	%				97	92	54-133			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: EMIL STREET
Pace Project No.: 4082341

QC Batch: PMST/8750 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4082341001, 4082341002

SAMPLE DUPLICATE: 837820

Parameter	Units	4082637001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.8	6.8	0	10	

REPORT OF LABORATORY ANALYSIS

Date: 08/13/2013 02:49 PM

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QUALIFIERS

Project: EMIL STREET
Pace Project No.: 4082341

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.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EMIL STREET
Pace Project No.: 4082341

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4082341001	B-1, 15'	EPA 5035/5030B	MSV/20757	EPA 8260	MSV/20764
4082341002	B-2, 9'	EPA 5035/5030B	MSV/20757	EPA 8260	MSV/20764
4082341001	B-1, 15'	ASTM D2974-87	PMST/8750		
4082341002	B-2, 9'	ASTM D2974-87	PMST/8750		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436



4082341

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)*

Y/N	Pick Letter	Analyses Requested	Matrix Codes	Date/Time	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time	Signature	
																										DATE
		VOCs		7/29		1430																				
				7/29		1500																				

Company Name: Seymar Env.
 Branch/Location:
 Project Contact: Robyn Seymour
 Phone: 608 225 9407
 Project Number:
 Project Name: Emil Street
 Project State: Wisconsin
 Sampled By (Print): Robyn Seymour
 Sampled By (Sign): Robyn Seymour

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

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

Matrix Codes
 A=ir 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		MATRIX
		DATE	TIME	
001	B-1, 15'	7/29	1430	
002	B-2, 9'	7/29	1500	

Quote #: 4082341
 Mail To Contact: Robyn Seymour
 Mail To Company:
 Mail To Address: 2531 Dyreson McFarland, WI
 Invoice To Contact: Robyn Seymour
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

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

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

Relinquished By: <i>Robyn Seymour</i>	Date/Time: <i>8:15 PM</i>	Received By: _____	Date/Time: _____
Relinquished By: <i>Nurham</i>	Date/Time: <i>8/6/13 0155</i>	Received By: <i>Suzanne K...</i>	Date/Time: <i>8/6/13 0155</i>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

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

PACE Project No. *4082341*
 Receipt Temp = *20°C*
 Sample Receipt pH
 OK / Adjusted
 Cooler Custody Seal
 Present / Not Present
 Intact / Not Intact

Page 1 of 16



Wisconsin State Laboratory of Hygiene
 2601 Agriculture Drive, PO Box 7996
 Madison, WI 53707-7996
 (800)442-4618 • FAX (608)224-6213
 http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002861

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 03/26/2013

Date Reported: 03/29/2013

Sample Reason:

Field #: INDOOR

Collection Start: 03/25/2013 10:52:00

Collection End: 03/25/2013 10:52:00

Collected By:

County:

Sample Source: INDOOR AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description: INDOOR

Analyses and Results:

Analysis Date	Lab Comment				
03/28/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	*IS 0.28	PPB V	0.085	0.280	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002861

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.

Report #: 9547478

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002860

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 03/26/2013

Date Reported: 03/29/2013

Sample Reason:

Field #: SS-3

Collection Start: 03/25/2013 11:27:00

Collection End: 03/25/2013 11:59:00

Collected By:

County:

Sample Source: INDOOR AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description: SS-3

Analyses and Results:

Analysis Date	Lab Comment				
03/29/2013 12:01:57	LOD NOT ACHIEVABLE DUE TO DILUTION - *D.				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*D< 1334	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*D< 1334	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*D< 1334	PPB V	0.085	0.280	
TRICHLOROETHYLENE	*D< 1334	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	6110.	PPB V	0.085	0.280	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002860

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Report #: 9547477

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002859

SEYMOUR ENVIRONMENTAL SERVICES

Bill To

2531 DYRESON ROAD

Customer ID: 320225

MCFARLAND, WI 53558

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 03/26/2013

Date Reported: 03/29/2013

Sample Reason:

Field #: SS-2

Collection Start: 03/25/2013 10:30:00

Collection End: 03/25/2013 11:01:00

Collected By:

County:

Sample Source: INDOOR AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description: SS-2

Analyses and Results:

Analysis Date	Lab Comment				
03/29/2013 12:01:57	LOD NOT ACHIEVABLE DUE TO DILUTION - *D.				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*D< 200	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	*D< 200	PPB V	0.085	0.280	
CIS-1,2-DICHLOROETHYLENE	*D< 200	PPB V	0.085	0.280	
TRICHLOROETHYLENE	*D< 200	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	435.	PPB V	0.085	0.280	



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<http://www.slh.wisc.edu>

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002859

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002858

SEYMOUR ENVIRONMENTAL SERVICES

2531 DYRESON ROAD

MCFARLAND, WI 53558

Bill To

Customer ID: 320225

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 03/26/2013

Date Reported: 03/29/2013

Sample Reason:

Field #: SS-1

Collection Start: 03/25/2013 10:47:00

Collection End: 03/25/2013 11:30:00

Collected By:

County:

Sample Source: INDOOR AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description: SS-1

Analyses and Results:

Analysis Date	Lab Comment				
03/28/2013	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	ND	PPB V	0.085	0.280	
TRANS-1,2-DICHLOROETHYLENE	0.220	PPB V	0.085	0.280	
Note: The reported value above is equal to or greater than the LOD and less than the LOQ.					
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280	
TRICHLOROETHYLENE	0.340	PPB V	0.085	0.280	
TETRACHLOROETHYLENE	*IS 300	PPB V	0.085	0.280	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OX002858

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 139093001

Report To:
 SEYMOUR ENVIRONMENTAL SVCS
 P.O. BOX 398
 MC FARLAND, WI 53558

Invoice To:
 SEYMOUR ENVIRONMENTAL SVCS
 P.O. BOX 398
 MC FARLAND, WI 53558
 Customer ID: 13810

Field #: OFFICE
 Project No: MADISON SHEET METAL
 Collection End: 6/13/2014 12:14:00 PM
 Collection Start: 06/12/14 11:59
 Collected By: MARK R SEYMOUR
 Date Received: 6/16/2014
 Date Reported: 6/25/2014
 Sample Reason:

ID#: _____
 Sample Location:
 Sample Description:
 Sample Type: AI-INDOOR AIR
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 06/19/14 Analysis Date 06/19/14					
Vinyl chloride	EPA TO-15	ND	ppbv	0.085	0.28
trans-1,2-Dichloroethene	EPA TO-15	ND	ppbv	0.085	0.28
cis-1,2-Dichloroethene	EPA TO-15	ND	ppbv	0.085	0.28
Trichloroethene	EPA TO-15	ND	ppbv	0.085	0.28
Tetrachloroethene	EPA TO-15	0.33	ppbv	0.085	0.28

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

List of Abbreviations:
 LOD = Level of detection
 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

*Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.edu/nelap/>



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 139093001

Responsible Party

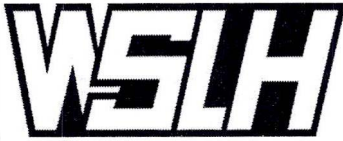
Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 139093002

Report To:
 SEYMOUR ENVIRONMENTAL SVCS
 P.O. BOX 398
 MC FARLAND, WI 53558

Invoice To:
 SEYMOUR ENVIRONMENTAL SVCS
 P.O. BOX 398
 MC FARLAND, WI 53558
 Customer ID: 13810

Field #: SS-5
 Project No: MADISON SHEET METAL
 Collection End: 6/13/2014 11:07:00 AM
 Collection Start: 06/13/14 10:37
 Collected By: MARK R SEYMOUR
 Date Received: 6/16/2014
 Date Reported: 6/25/2014
 Sample Reason:

ID#: _____
 Sample Location:
 Sample Description:
 Sample Type: SB-SUB SLAB
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 06/19/14 Analysis Date 06/19/14					
Vinyl chloride	EPA TO-15	ND	ppbv	2.1	7.0
trans-1,2-Dichloroethene	EPA TO-15	ND	ppbv	2.1	7.0
cis-1,2-Dichloroethene	EPA TO-15	ND	ppbv	2.1	7.0
Trichloroethene	EPA TO-15	ND	ppbv	2.1	7.0
Tetrachloroethene	EPA TO-15	8.1	ppbv	2.1	7.0

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

List of Abbreviations:

LOD = Level of detection
 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

*Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.edu/nelap/>



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 139093002

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 139093003

Report To:
 SEYMOUR ENVIRONMENTAL SVCS
 P.O. BOX 398
 MC FARLAND, WI 53558

Invoice To:
 SEYMOUR ENVIRONMENTAL SVCS
 P.O. BOX 398
 MC FARLAND, WI 53558
 Customer ID: 13810

Field #: SS-4
 Project No: MADISON SHEET METAL
 Collection End: 6/13/2014 11:52:00 AM
 Collection Start: 06/13/14 11:20
 Collected By: MARK R SEYMOUR
 Date Received: 6/16/2014
 Date Reported: 6/25/2014
 Sample Reason:

ID#: _____
 Sample Location:
 Sample Description:
 Sample Type: SB-SUB SLAB
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 06/20/14 Analysis Date 06/20/14					
Vinyl chloride	EPATO-15	ND	ppbv	6.4	21
trans-1,2-Dichloroethene	EPATO-15	ND	ppbv	6.4	21
cis-1,2-Dichloroethene	EPATO-15	ND	ppbv	6.4	21
Trichloroethene	EPATO-15	ND	ppbv	6.4	21
Tetrachloroethene	EPATO-15	480	ppbv	6.4	21

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

List of Abbreviations:
 LOD = Level of detection
 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 139093003

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007 WI DATCP ID: 105-415

WSLH Sample: 139093004

Report To:
 SEYMOUR ENVIRONMENTAL SVCS
 P.O. BOX 398
 MC FARLAND, WI 53558

Invoice To:
 SEYMOUR ENVIRONMENTAL SVCS
 P.O. BOX 398
 MC FARLAND, WI 53558
 Customer ID: 13810

Field #: SS-3A
 Project No: MADISON SHEET METAL
 Collection End: 6/13/2014 12:42:00 PM
 Collection Start: 06/12/14 12:12
 Collected By: MARK R SEYMOUR
 Date Received: 6/16/2014
 Date Reported: 6/25/2014
 Sample Reason:

ID#:
 Sample Location:
 Sample Description:
 Sample Type: SB-SUB SLAB
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

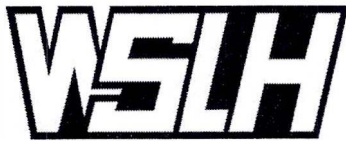
OC-Volatiles

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 06/23/14 Analysis Date 06/23/14					
Vinyl chloride	EPATO-15	ND	ppbv	130	420
trans-1,2-Dichloroethene	EPATO-15	ND	ppbv	130	420
cis-1,2-Dichloroethene	EPATO-15	ND	ppbv	130	420
Trichloroethene	EPATO-15	ND	ppbv	130	420
Tetrachloroethene	EPA TO-15	3700	ppbv	130	420

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

List of Abbreviations:
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 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

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Laboratory Report

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Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007

WI DATCP ID: 105-415

WSLH Sample: 139093004

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: Tracy Hanke, Lab Manager, 608-224-6270

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: David Webb, Lab Manager, 608-224-6200

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

Client Sample ID:	mb140707s	Trip-1	1	2	3	4
Project Number:		2862	2862	2862	2862	2862
Lab File ID:	S14070703	S14070718	S14070719	S14070720	S14070721	S14070722
Received Date:		7/7/2014	7/7/2014	7/7/2014	7/7/2014	7/7/2014
Analysis Date:	7/7/2014	7/7/2014	7/7/2014	7/7/2014	7/7/2014	7/7/2014
Analysis Time:	10:33	16:19	16:40	17:02	17:23	17:45
Matrix:			Soil Gas	Soil Gas	Soil Gas	Soil Gas
Units:	ng	ng	ng	ng	ng	ng
COMPOUNDS						
Vinyl Chloride	<10	<10	<10	<10	<10	<10
Trichlorofluoromethane (Freon 11)	<25	<25	<25	<25	<25	<25
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethene	<10	<10	11	<10	13	<10
Methyl-t-butyl ether	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	<10	<10	<10	<10	<10	<10
Chloroform	<25	<25	<25	<25	<25	<25
1,2-Dichloroethane	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25	<25	<25	<25
Carbon Tetrachloride	<25	<25	<25	<25	<25	<25
Benzene	<25	<25	<25	<25	<25	<25
Trichloroethene	<10	<10	<10	<10	<10	<10
1,4-Dioxane	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25
Toluene	<25	<25	<25	<25	<25	<25
1,2-Dibromoethane (EDB)	<25	<25	<25	<25	<25	<25
Tetrachloroethene	<10	<10	<10	<10	<10	<10
1,1,1,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
Chlorobenzene	<25	<25	<25	<25	<25	<25
Ethylbenzene	<25	<25	<25	<25	<25	<25
p & m-Xylene	<25	<25	<25	<25	<25	<25
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	<25	<25
o-Xylene	<25	<25	<25	<25	<25	<25
1,2,3-Trichloropropane	<25	<25	<25	<25	<25	<25
Isopropylbenzene	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	<25	<25	<25	<25	<25	<25
1,3-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	<25	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	<25	<25	<25	<25	<25	<25
Naphthalene	<25	<25	<25	<25	<25	<25
1,2,3-Trichlorobenzene	<25	<25	<25	<25	<25	<25
2-Methylnaphthalene	<25	<25	<25	<25	<25	<25
TPH C ₅ -C ₉	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000
TPH C ₁₀ -C ₁₅	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road, Suite 1
Forest Hill, MD 21050 USA

Analysis by EPA Method 8260C

Client Sample ID:	5	6	7
Project Number:	2862	2862	2862
Lab File ID:	S14070723	S14070724	S14070725
Received Date:	7/7/2014	7/7/2014	7/7/2014
Analysis Date:	7/7/2014	7/7/2014	7/7/2014
Analysis Time:	18:07	18:29	18:51
Matrix:	Soil Gas	Soil Gas	Soil Gas
Units:	ng	ng	ng
COMPOUNDS			
Vinyl Chloride	<10	95	<10
Trichlorofluoromethane (Freon 11)	<25	<25	<25
1,1-Dichloroethene	<10	<10	<10
1,1,2-Trichlorotrifluoroethane (Fr.113)	<25	<25	<25
trans-1,2-Dichloroethene	18	27	21
Methyl-t-butyl ether	<25	<25	<25
1,1-Dichloroethane	<25	<25	<25
cis-1,2-Dichloroethene	<10	32	34
Chloroform	<25	<25	57
1,2-Dichloroethane	<25	<25	<25
1,1,1-Trichloroethane	<25	<25	<25
Carbon Tetrachloride	<25	<25	<25
Benzene	<25	<25	<25
Trichloroethene	<10	24	321
1,4-Dioxane	<25	<25	<25
1,1,2-Trichloroethane	<25	<25	<25
Toluene	<25	<25	<25
1,2-Dibromoethane (EDB)	<25	<25	<25
Tetrachloroethene	<10	127	11,230
1,1,1,2-Tetrachloroethane	<25	<25	<25
Chlorobenzene	<25	<25	<25
Ethylbenzene	<25	<25	<25
p & m-Xylene	<25	<25	<25
1,1,2,2-Tetrachloroethane	<25	<25	<25
o-Xylene	<25	<25	<25
1,2,3-Trichloropropane	<25	<25	<25
Isopropylbenzene	<25	<25	<25
1,3,5-Trimethylbenzene	<25	<25	<25
1,2,4-Trimethylbenzene	<25	<25	<25
1,3-Dichlorobenzene	<25	<25	<25
1,4-Dichlorobenzene	<25	<25	<25
1,2-Dichlorobenzene	<25	<25	<25
1,2,4-Trichlorobenzene	<25	<25	<25
Naphthalene	<25	<25	<25
1,2,3-Trichlorobenzene	<25	<25	<25
2-Methylnaphthalene	<25	<25	<25
TPH C ₅ -C ₉	<5,000	<5,000	<5,000
TPH C ₁₀ -C ₁₅	<5,000	<5,000	<5,000