ENVIROGEN

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Green Bay, WI 54304

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September 5, 2000

Mr. Scott Miller
Wisconsin Department of Natural Resources
1125 N. Military Avenue
P.O. Box 10448
Green Bay, Wisconsin 54307-0448

Re: Addendum to Site Investigation Work Plan
Ness Service Center Site, Green Bay Wisconsin
Envirogen Project No. 990423
WDNR ID No. 03-05-000017
PECFA Claim No. 54303-1765-75

Dear Mr. Miller:

Envirogen, Inc. (Envirogen) is submitting this addendum to the Site Investigation Work Plan previously submitted by Robert E. Lee & Associates, Inc. (REL) in March 1995, in order to complete a limited site investigation at the Ness Service Center site located in Green Bay, Wisconsin. Figures and tables referenced in this report are included as Attachments A and B, respectively. Soil boring/monitoring well construction logs and laboratory analytical reports from soil samples collected during test boring advancement are provided as Attachments C and D, respectively.

Site Description

The Ness Service Center Site is located at 975 West Mason Street in Green Bay, Wisconsin. The site is located on the south-west corner of the intersection of Mason Street and 14th Avenue in the City of Green Bay, Brown County, Wisconsin. Figure 1 illustrates the site location.

The Ness Service Center building is located in the approximate center of the site, which is primarily asphalt- and concrete-covered. One 4,000-gallon gasoline underground storage tank (UST) and associated pump islands were formerly located at the northeast corner of the site. One 500-gallon waste oil UST was formerly located near the northwest corner of the building. One 6,000-gallon and two 8,000-gallon gasoline USTs, along with the associated pump islands and canopy, are currently located near the northeast corner of the Ness Service Center building. The site is bordered by West Mason Street to the north, and 14th Avenue to the east. Residential properties border the site to the

south and west. Figure 2 illustrates the site configuration and Table 1 summarizes the details of the USTs utilized on-site.

Site History

In November 1994, the 6,000-gallon unleaded gasoline UST was removed from the site under supervision of REL personnel. During tank removal activities, soil samples were collected from the sidewalls of the excavation and beneath the tanks and associated piping. The samples were field-analyzed using a photoionization detector, and select samples were sent to a state-certified laboratory for analysis of gasoline range organics (GRO). Laboratory analytical results indicated GRO was present in excess of the Wisconsin Administrative Code (WAC) NR 720 generic soil standard in several samples. Laboratory analytical results from the samples are summarized in Table 2. Figure 3 illustrates the UST removal soil sampling locations.

On March 30, 2000, Envirogen oversaw the removal of the 500-gallon waste oil UST. A soil sample was collected during UST removal activities and submitted to a state-certified laboratory for analysis of diesel range organics (DRO). Analytical results indicate that DRO was detected; however, the concentration was below the WAC NR 720 generic soil standard. The laboratory results are also summarized in Table 2.

Contaminant Sources Assessment

Utility trenches located near the site and on-site are possible pathways for contaminant migration and, will be evaluated during the site investigation.

Based on a review of the National register of Historic Places an State Register of Historic Places in Wisconsin, there are no historical or archeological sites on or adjacent to the site. Based on a review of NR 102.10 and NR 102.11, Lake Michigan is designated as an outstanding resource water, and is located approximately five miles from the site, but should not be affected by the contamination.

Information regarding nearby sources of contamination was reviewed to evaluate the potential for off-site contaminants to migrate onto the site and to identify nearby sites for which Wisconsin Department of Natural Resources (WDNR) information would be available. The WDNR information could provide specific information about geology and hydrogeology in the area of the site. To locate potential sources of contamination that exist within a 1,200-foot radius of the site, Envirogen has reviewed the following records lists:

- Hazard Ranking List
- List of Active Leaking Underground Storage Tank (LUST) Sites
- Registry if Waste Disposal Sites in Wisconsin

- Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) List
- Spills Summary Report
- Superfund: Progress at National Priority List Sites: Wisconsin

Envirogen has identified up to three properties within approximately a 1,200-foot radius of the Ness Service Center site as potential contaminant sources. The potential impact form these off-site sources will be evaluated during the site investigation.

Previous Site Investigation Activities

REL personnel advanced a total of 11 test borings on- and off-site on three different occasions. One boring was converted into a groundwater monitoring well. Test boring and monitoring well locations are illustrated in Figure 4. Soil samples were collected from each boring location and submitted to a state-certified laboratory for analysis of petroleum compounds.

Samples from test borings installed off-site in the road way on March 29, 1995, indicated low detections of GRO and DRO. Soil samples from test borings advanced in May 1995, indicated the presence of GRO, DRO, and volatile organic compounds (VOCs). However, the detections of VOCs were believed to be the result of laboratory contamination, not of actual site conditions. Because of the suspected laboratory contaminants, a third test boring event was performed to collect representative soil samples for VOC analysis. These borings were located in the same locations as the May 1995 borings and soil samples were collected at the same depths as those previously collected. Analytical results of these samples indicate no VOC contamination at levels exceeding laboratory method detection limits with the exception of one low detection of toluene. Table 3 summarizes the site investigation soil sample laboratory analytical results. Figures 5 and 6 illustrate soil GRO and DRO distributions, respectively.

Proposed Supplemental Site Investigation Activities

Envirogen is proposing to install several additional monitoring wells to determine the extent of potential groundwater contamination and further define the extent of soil contamination. Soil samples collected during the installation of the monitoring wells will be sent to a state-certified laboratory for analysis of petroleum volatile organic compounds, GRO, DRO, polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls, lead, and/or cadmium. The laboratory analytical methods and limits of detection are provided in Envirogen's Standard Operating Procedures (SOP), which is available upon request. Envirogen's chemists will review the results.

Monitoring wells will be installed at locations selected based on soil investigation observations. One monitoring well will be installed in the waste oil UST basin source area. The remaining wells will be installed inside or at the perimeter of the soil contaminant plume for complete definition of

contamination and to facilitate monitoring of the dissolved-phase contaminants. The locations of the proposed supplemental monitoring wells are illustrated in Figure 7.

Groundwater samples will be collected from the monitoring wells and submitted to a state-certified laboratory for analysis of VOCs, GRO, DRO, dissolved lead, PAHs, and natural attenuation indicator parameters. The laboratory analytical methods and limits of detection are summarized in Envirogen's SOP. All laboratory analytical results will be reviewed by Envirogen's chemist.

Envirogen personnel will survey the site, including all monitoring well tops-of-casing. Elevations will be referenced to a site datum and recorded to the 0.01 foot. Depth-to-water measurements will be taken at every well location and groundwater elevation measurements will be calculated to generate a potentiometric surface map and hydraulic gradient. A report will then be generated which will summarize all site investigation findings and provide recommendations for future work at the site.

Conditions and Certifications

This Site Investigation Work Plan has been prepared in accordance with generally accepted engineering and hydrogeologic principles and practices of this time and location.

The recommended scope of services presented herein has been developed from consideration of the project characteristics and interpretation of available information. Because only limited information is available, Envirogen reserves the right to modify actual site activities based on subsequent findings.
The locations of the soil borings and monitoring wells have been selected to delineate the extent of contamination. If the contamination is found to be more or less than originally anticipated, appropriate modifications to the Site Investigation Work Plan may be necessary.

This Site Investigation Work Plan was prepared by ENVIROGEN, INC.

I, Mark O. Love, hereby certify that I am a scientist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Mark Love

Mark O. Love
Professional Soil Scientist

cc: Mr. Greg Ness

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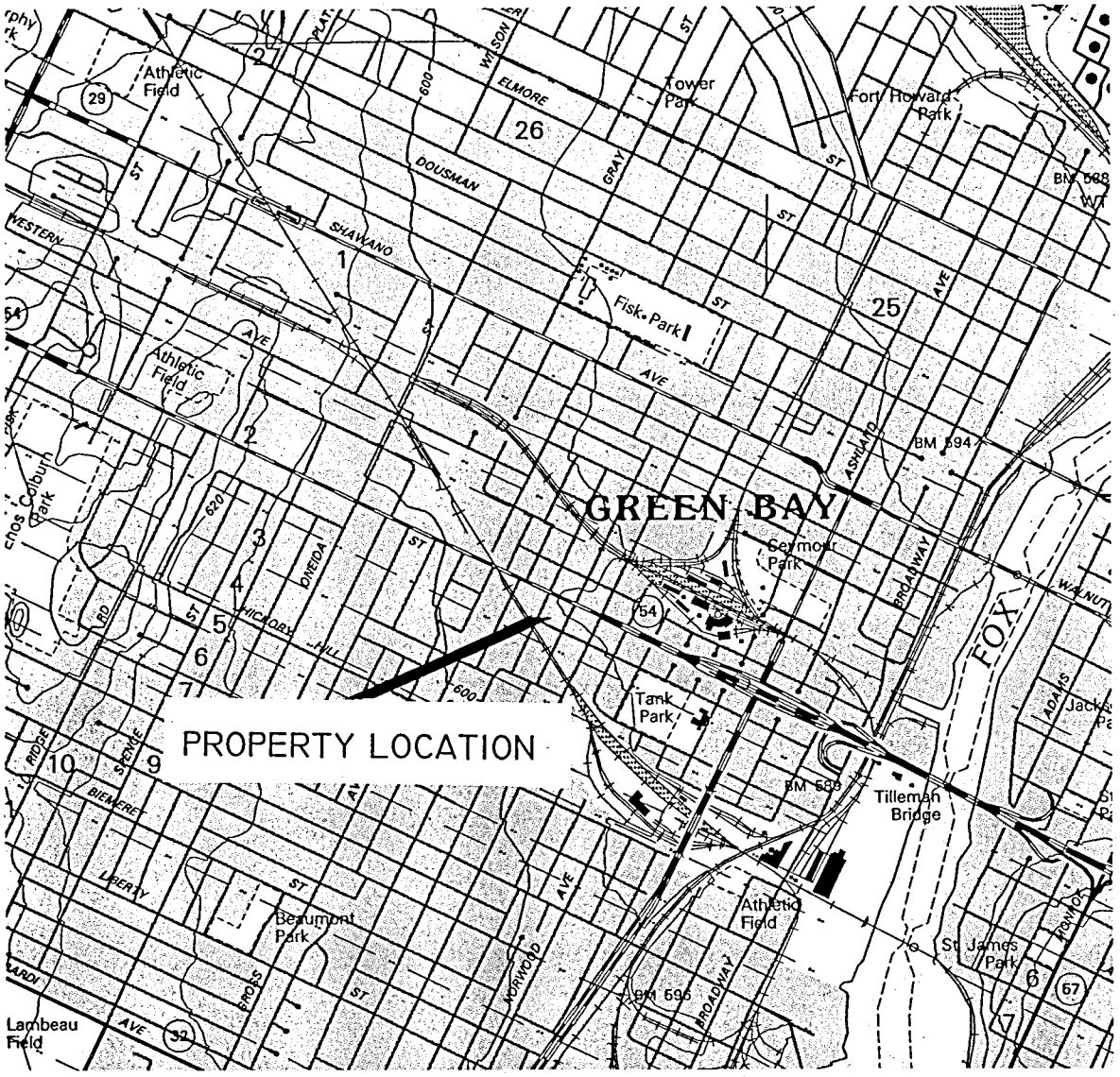
Attachment A

Figures

ENVIROGEN

LIST OF FIGURES



(USGS 1982)
GREEN BAY WEST QUADRANGLE

SCALE
1:24000

1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET

N

LOCATION

ENVIROGEN
COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT

790 Marvelle Lane
Green Bay, Wisconsin 54304

DRAWING NO.	99.423.1
DRAWN BY:	RRT
CHECKED BY:	
APPROVED BY:	
REVISIONS:	
ENGINEER	DATE
ENGINEER	DATE

SITE LOCATION MAP

NESS SERVICE CENTER SITE
GREEN BAY, WISCONSIN

FIGURE NO.
1

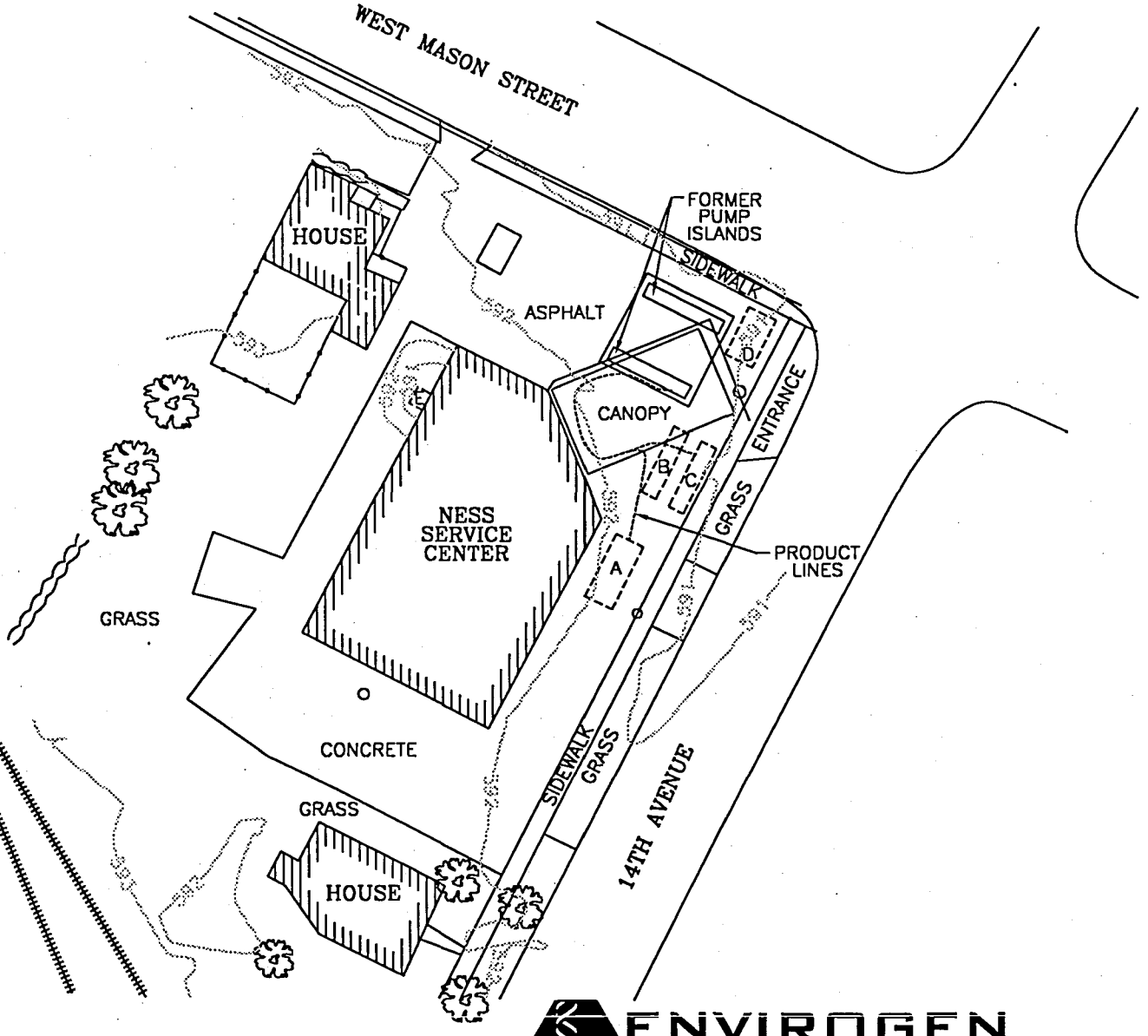
LEGEND

RAILROAD TRACKS
TREE
UNDERGROUND STORAGE TANK

TANK LEGEND

A 6,000-GALLON UNLEADED GASOLINE UST (FORMERLY CONTAINED DISEL FUEL)
B 8,000-GALLON LEADED GASOLINE UST
C 8,000-GALLON LEADED GASOLINE UST
D FORMER 4,000-GALLON UNLEADED GASOLINE UST
E FORMER 500-GALLON WASTE OIL UST

N



ENVIROGEN
COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT
790 Marvelle Lane
Green Bay, Wisconsin 54304

SCALE
0 10' 20' 30' 40' 50'

SITE PLAN VIEW

NESS SERVICE CENTER SITE
GREEN BAY, WISCONSIN

FIGURE NO. 2

DRAWING NO.	9423.2
DRAWN BY:	RRT
	09/01/00
CHECKED BY:	
APPROVED BY:	
REVISIONS:	
ENGINEER	DATE
ENGINEER	DATE

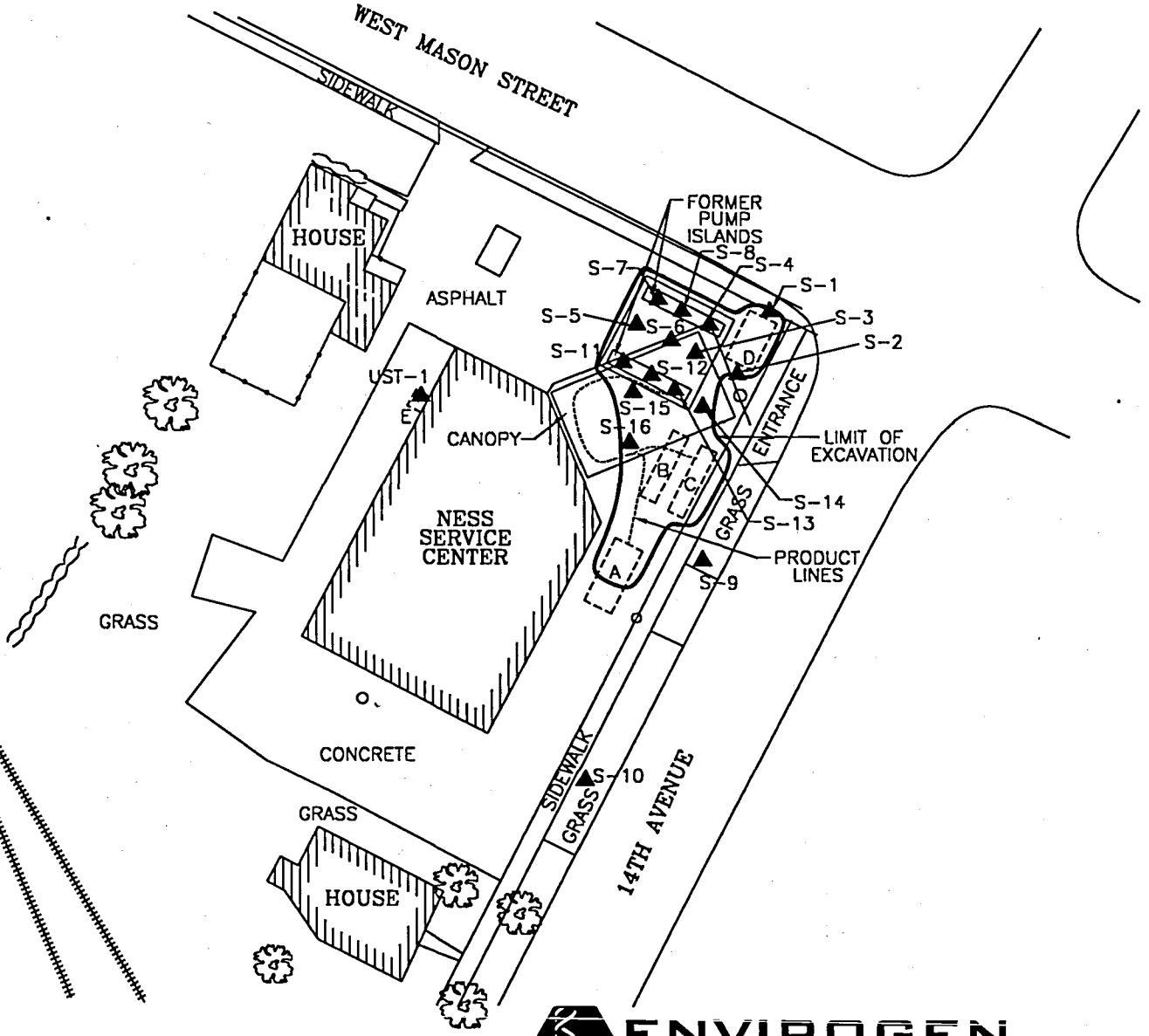
LEGEND

- RAILROAD TRACKS
- TREE
- UNDERGROUND STORAGE TANK
- UST REMOVAL SOIL SAMPLE

TANK LEGEND

- A 6,000-GALLON UNLEADED GASOLINE UST (FORMERLY CONTAINED DISEL FUEL)
- B 8,000-GALLON LEADED GASOLINE UST
- C 8,000-GALLON LEADED GASOLINE UST
- D FORMER 4,000-GALLON UNLEADED GASOLINE UST
- E FORMER 500-GALLON WASTE OIL UST

N



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COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT

790 Marvelle Lane
Green Bay, Wisconsin 54304

SCALE

0 10' 20' 30' 40' 50'

UST REMOVAL SOIL SAMPLING LOCATIONS NESS SERVICE CENTER SITE GREEN BAY, WISCONSIN	FIGURE NO. 3

DRAWING NO.	9423.3
DRAWN BY:	RRT
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REVISIONS:	
ENGINEER	
DATE	
ENGINEER	
DATE	

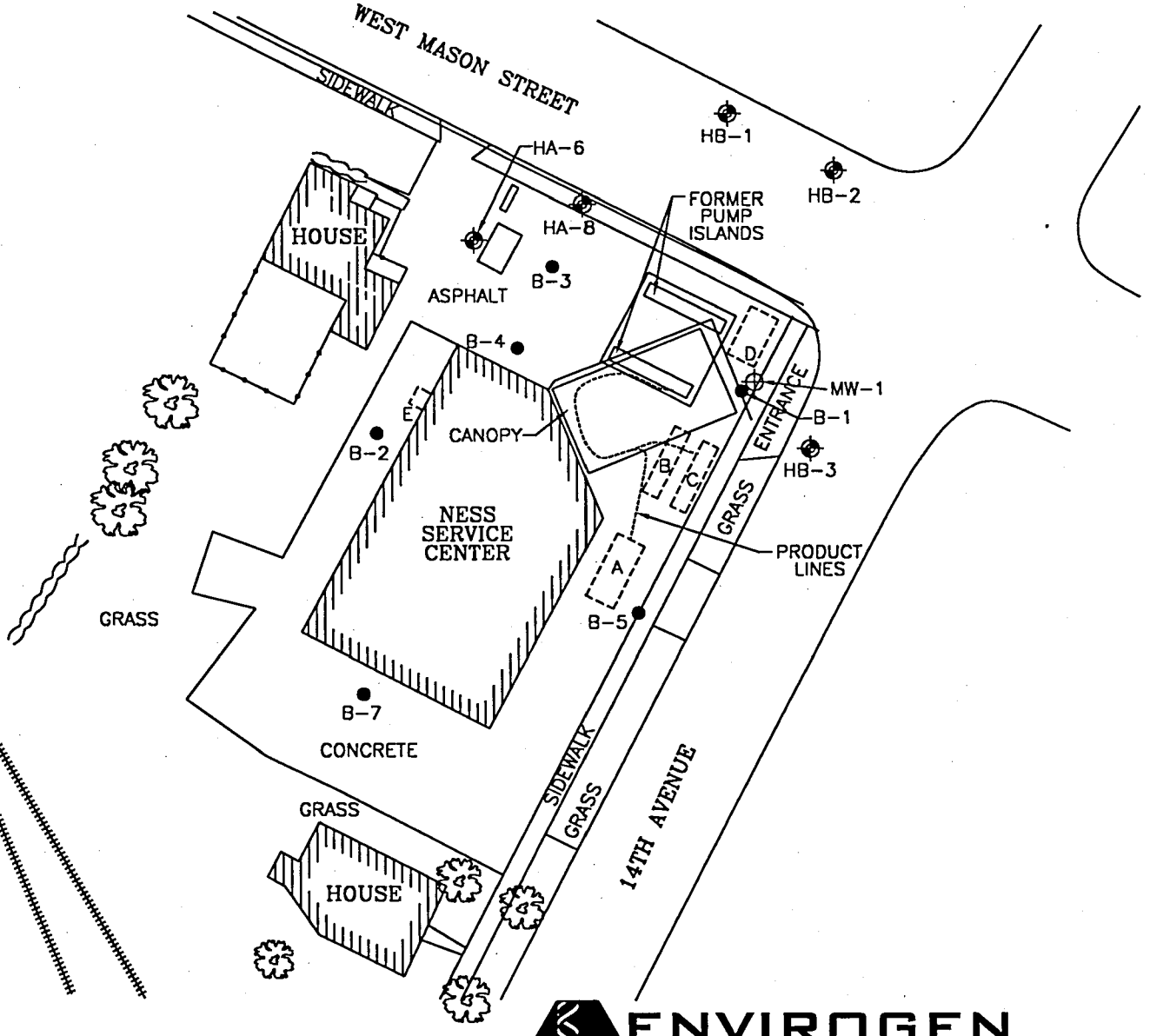
LEGEND

- RAILROAD TRACKS
- TREE
- UNDERGROUND STORAGE TANK
- MONITORING WELL
- SOIL BORING
- HAND AUGER BORING

TANK LEGEND

A	6,000-GALLON UNLEADED GASOLINE UST (FORMERLY CONTAINED DISEL FUEL)
B	8,000-GALLON LEADED GASOLINE UST
C	8,000-GALLON LEADED GASOLINE UST
D	FORMER 4,000-GALLON UNLEADED GASOLINE UST
E	FORMER 500-GALLON WASTE OIL UST

N



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COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT

790 Marvelle Lane
Green Bay, Wisconsin 54304

SCALE

0 10' 20' 30' 40' 50'

TEST BORING/MONITORING WELL CONFIGURATION

NESS SERVICE CENTER SITE
GREEN BAY, WISCONSIN

FIGURE NO. 4

DRAWING NO.	9423.4
DRAWN BY:	RRT
	09/01/00
CHECKED BY:	
APPROVED BY:	
REVISIONS:	
ENGINEER	
DATE	
ENGINEER	
DATE	

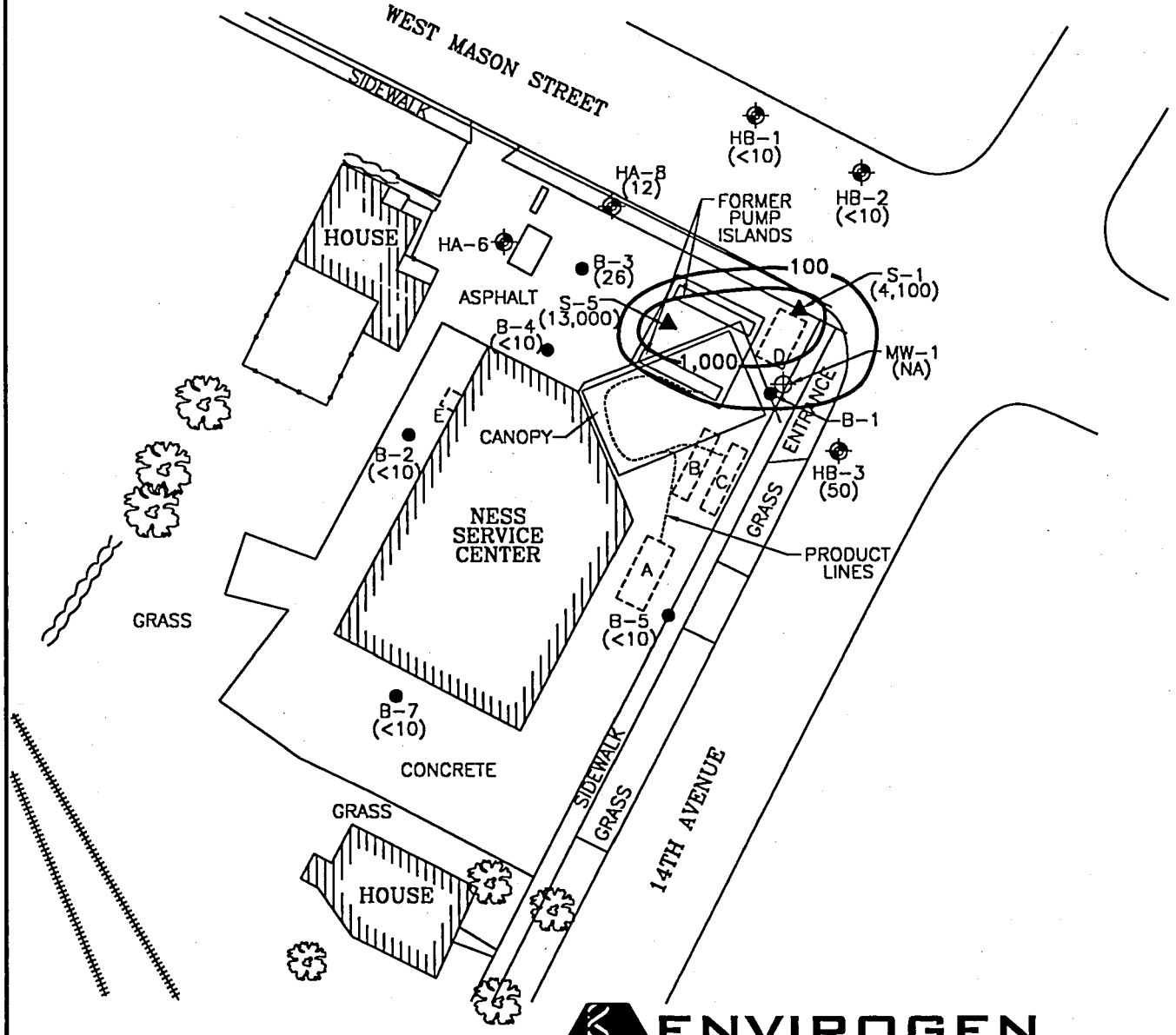
LEGEND

- RAILROAD TRACKS
- TREE
- UNDERGROUND STORAGE TANK
- MONITORING WELL
- SOIL BORING
- HAND AUGER BORING
- ( ) GRO CONCENTRATION IN ppm
- (NA) NOT ANALYZED
- 100 ISOCONCENTRATION CONTOUR

TANK LEGEND

A	6,000-GALLON UNLEADED GASOLINE UST (FORMERLY CONTAINED DISEL FUEL)
B	8,000-GALLON LEADED GASOLINE UST
C	8,000-GALLON LEADED GASOLINE UST
D	FORMER 4,000-GALLON UNLEADED GASOLINE UST
E	FORMER 500-GALLON WASTE OIL UST

N



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COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT

790 Marvelle Lane
Green Bay, Wisconsin 54304

SCALE

0 10' 20' 30' 40' 50'

SOIL GRO DISTRIBUTION

NESS SERVICE CENTER SITE
GREEN BAY, WISCONSIN

FIGURE NO. 5

DRAWING NO.	9423.5
DRAWN BY:	RRT
	09/01/00
CHECKED BY:	
APPROVED BY:	MR
REVISIONS:	
ENGINEER	
DATE	
ENGINEER	
DATE	

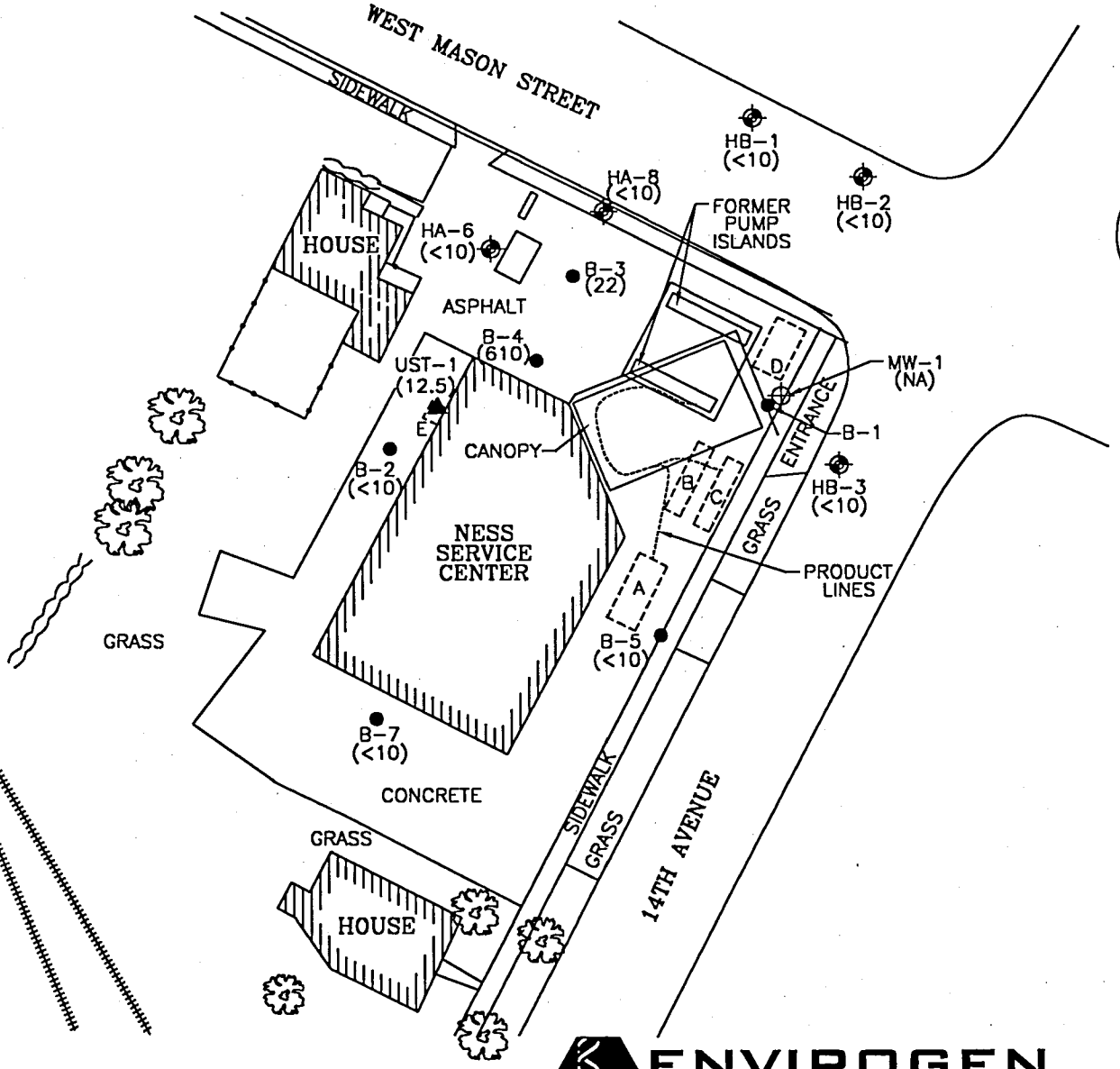
LEGEND

- RAILROAD TRACKS
- TREE
- UNDERGROUND STORAGE TANK
- MONITORING WELL
- SOIL BORING
- HAND AUGER BORING
- ( ) DRO CONCENTRATION IN ppm
- (NA) NOT ANALYZED
- 100 ISOCONCENTRATION CONTOUR

TANK LEGEND

A	6,000-GALLON UNLEADED GASOLINE UST (FORMERLY CONTAINED DISEL FUEL)
B	8,000-GALLON LEADED GASOLINE UST
C	8,000-GALLON LEADED GASOLINE UST
D	FORMER 4,000-GALLON UNLEADED GASOLINE UST
E	FORMER 500-GALLON WASTE OIL UST

N



ENVIROGEN

COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT

790 Marvelle Lane
Green Bay, Wisconsin 54304

SCALE

0 10' 20' 30' 40' 50'

SOIL DRO DISTRIBUTION

NESS SERVICE CENTER SITE
GREEN BAY, WISCONSIN

FIGURE NO. 6

DRAWING NO.	DRAWN BY:	CHECKED BY:	APPROVED BY:	REVISIONS:	ENGINEER	DATE	ENGINEER	DATE
9423.6	RRT	09/01/00						

LEGEND

- RAILROAD TRACKS
- TREE
- UNDERGROUND STORAGE TANK
- MONITORING WELL
- SOIL BORING
- HAND AUGER BORING
- PROPOSED MONITORING WELL

TANK LEGEND

- A 6,000-GALLON UNLEADED GASOLINE UST (FORMERLY CONTAINED DISEL FUEL)
- B 8,000-GALLON LEADED GASOLINE UST
- C 8,000-GALLON LEADED GASOLINE UST
- D FORMER 4,000-GALLON UNLEADED GASOLINE UST
- E FORMER 500-GALLON WASTE OIL UST

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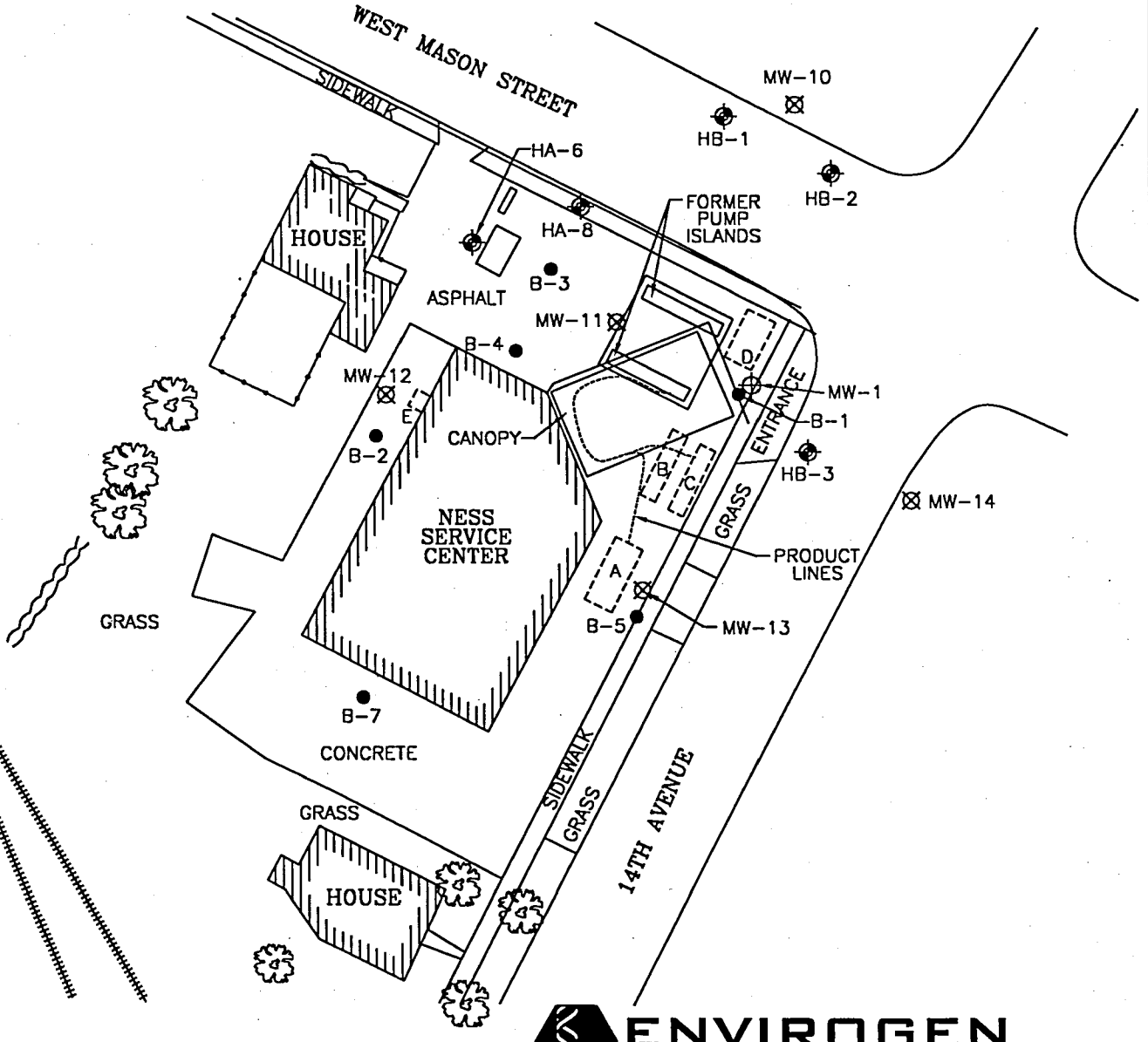

ENVIROGEN

COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT

790 Marvelle Lane
Green Bay, Wisconsin 54304

SCALE

0 10' 20' 30' 40' 50'

PROPOSED SUPPLEMENTAL MONITORING WELL

NESS SERVICE CENTER SITE
GREEN BAY, WISCONSIN

FIGURE NO. 7

DRAWING NO.	9423.7
DRAWN BY:	RRT
	09/01/00
CHECKED BY:	
APPROVED BY:	
REVISIONS:	
ENGINEER	
DATE	
ENGINEER	
DATE	

ENVIROGEN

Attachment B

Tables

ENVIROGEN

LIST OF TABLES

Table 1

UST Inventory
Ness Service Center Site
Green Bay, Wisconsin

Size (gallons)	COMM Registration Number	Product	USTComposition	Installation Date	Status
6,000	255781	Unleaded Gasoline (formerly diesel fuel)	Coated Steel	Unknown	Removed November 1994
500	256395	Waste Oil/Motor Oil	Coated Steel	Unknown	Removed March 30, 2000
4,000	256396	Unleaded Gasoline	Fiberglass	Unknown	Currently in Use
8,000	255779	Unleaded Gasoline	Fiberglass	Unknown	Currently in Use
8,000	255780	Unleaded Gasoline	Fiberglass	Unknown	Currently In Use

(COMM n.d.)

Notes:

UST: Underground storage tank
COMM: Wisconsin Department of Commerce

Checked by: Ma
Approved by: Ma

Table 2

UST Removal Soil Sample Laboratory Analytical Results
Ness Service Center Site
Green Bay, Wisconsin
November 7 through 14, 1994, and March 30, 2000

Sample ID	Sample Location	Sample Depth (ft)	PID Reading	GRO	DRO
S-1	North sidewall	3	655	4,100	NA
S-2	South sidewall	3	501	NA	NA
S-3	Beneath distribution line between pumps 1 and 6	3	795	NA	NA
S-4	Beneath pump #1	3	694	NA	NA
S-5	Beneath distribution line between pumps 3 and 4	3	561	13,000	NA
S-6	Beneath distribution line between pumps 2 and 5	3	403	NA	NA
S-7	Beneath pump #3	3	702	NA	NA
S-8	Beneath pump #2	3	7430	NA	NA
S-9	Utility Trench	3.5	619	NA	NA
S-10	Utility Trench	3	0	NA	NA
S-11	Beneath pump #4	2	533	NA	NA
S-12	Beneath pump # 5	2	233	NA	NA
S-13	Beneath pump # 6	2	333	NA	NA
S-14	Beneath distribution line to 8,000 gallon UST	2	111	NA	NA
S-15	Beneath distribution line from pump #5	3	370	NA	NA
S-16	Beneath distribution line to 6,000 gallon UST	3	221	NA	NA
UST-1	Beneath center of waste oil UST	8	NA	NA	61
NR 720 Generic Soil Standard				100	100

Notes:

All results provided in ppm

Shading indicates value equals or exceeds the NR 720 generic soil standard

NA: Not analyzed
UST: Underground storage tank
PID: Photoionization detector

Checked by: Mar Approved by: Mar

Table 3

Site Investigation Soil Sample Laboratory Analytical Results
Ness Service Center Site
Green Bay, Wisconsin

Sample Location	Sample Date	Sample Depth (ft bls)	Parameters									
			Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	MTBE	Naphthalene	GRO (ppm)	DRO (ppm)	Lead (ppm)
HB-1	3/29/95	5-6	<5.8	<5.8	<5.8	<17.8	<11.6	<5.8	<0.33	<10	<10	6.96
HB-2		4-5	<6.1	<6.1	<6.1	<18.1	<12.2	<6.1	<0.33	<10	<10	3.57
HB-3		4.5-5	<5.7	780	370	4,200	7,200	31	<0.33	50	<10	4.27
B-2*	5/9-11/95 and 8/18/95	6-8	<25	<25	<25	<75	<50	<25	<25	<10	<10	3.51
B-3*		6-8	<25	<25	170	<75	<50	<50	<25	26	22	3.22
B-4*		2-4	<25	<25	<25	<75	<50	<25	<25	<10	<10	2.49
B-5*		4-6	<25	<25	<25	<75	<50	<25	<25	<10	<10	3.74
B-7*		4-6	<25	<25	<25	<75	<50	<25	<25	<10	<10	3.35
HA-6*		4-5	<25	<25	<25	<75	<50	<25	<25	<10	10	2.60
HA-8*		4-5	NS	NS	NS	NS	NS	NS	NS	12	<10	2.25
NR 720 Generic Soil Standards			5.5	2,900	1,500	4,100	NS	NS	NS	100	100	50

Notes:

All results are reported in ppb, unless noted otherwise

Shading indicates value equals or exceeds the NR 720 generic soil standard

bls: Below land surface
TMB: Trimethylbenzenes
MTBE: Methyl t- butyl ether
GRO: Gasoline range organics
DRO: Diesel range organics
*: Samples were re-analyzed for volatile organic compounds on 8/18/95 because of suspected laboratory contamination on 5/9/95 and 5/11/95.

Checked by: Mor
Approved by: Mor

ENVIROGEN

Attachment C

Soil Boring Log Information, Well/Drillhole/Borehole Abandonment Forms, and a Monitoring Well Construction Report

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
ESS SERVICE STATION		B-B. MW-1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MIDWEST ENGINEERING SERVICES. INC.	05/09/95 (MM/DD/YY)	05/09/95 (MM/DD/YY)	H.S.A.

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	-- Feet MSL	8.0 inches

Boring Location
State Plane ____ N. ____ E S/C/N
NE 1/4 of NW 1/4 of Section 35 . T 24 N. R 20 E/W
Lat ° ' "
Long ° ' "

Local Grid Location (if applicable)
____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/or Village
BROWN	05	GREEN BAY

Sample Number	Sample Type	Length Att. Recorded (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RD/ Comments
				2	Brown SAND and GRAVEL. Moist										
	1-SS		11	4	Brown SAND. some Gravel. Wet				150						
	2-SS		5	6	6" Layer of Pea Gravel				210						
	3-SS		4	8					--						No Recovery
	4-SS		4	10					--						No Recovery
	5-SS		3	12	Grayish Brown Silty SAND. little Clay. trace Gravel. Moist				180						
	6-SS		81	14	Grayish Brown Silty CLAY. trace Sand and Gravel				50						
				16	END OF BORING: 13 1/2'										
				18	Water encountered at 3' during drilling										
				20											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: MIDWEST ENGINEERING SERVICES. INC.

This form is authorized by Chapters 144. 14 and 162. Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5.000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days. or both for each violation. Each day of continued violation is a separate offense. pursuant to ss 144.99 and 162.06. Wis. Stats.

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
NESS SERVICE STATION		B-1A

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MIDWEST ENGINEERING SERVICES, INC.	05/09/95 (MM/DD/YY)	05/09/95 (MM/DD/YY)	H.S.A.

DNR Facility Well No.	Wi. Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			____ Feet MSL	-- Feet MSL	6.0 inches

Boring Location
State Plane ____ N, ____ E S/C/N
NE 1/4 of NW 1/4 of Section 35, T 24 N, R 20 (E)/W
Lat ° ' "
Long ° ' "

Local Grid Location (if applicable)
____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/or Village
BROWN	05	GREEN BAY

Sample Number and Type	Sample Length Att. & Recorded (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Brown SAND and GRAVEL										
			2											
1-SS	11			3" of Pea Gravel at 3'				ND						
			4	END OF BORING: 4'										
				Water encountered at 3' during drilling										
			6	Boring caved at 2'										
				Boring terminated due to possible trench backfil										
			8											
			10											
			12											
			14											
			16											
			18											
			20											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature]

Firm: MIDWEST ENGINEERING SERVICES, INC.

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
NESS SERVICE STATION		B-2

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MIDWEST ENGINEERING SERVICES. INC.	05/09/95 (MM/DD/YY)	05/09/95 (MM/DD/YY)	H.S.A.

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 inches

Boring Location
State Plane ____ N ____ E S/C/N
Lat ° ' "
Long ° ' "
NE 1/4 of NW 1/4 of Section 35 . T 24 N R 20 (E) W

Local Grid Location (if applicable)
____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/or Village
BROWN	05	GREEN BAY

Sample Number and Type	Length Att. Recorded (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RD/ Comments
				3" +/- Asphaltic Concrete										
				Brown Sand and GRAVEL (Base Course)										
			2	Brown Silty SAND. trace Clay. Moist										
	1-SS	14						ND						
			4	Brown Clayey SILT. trace Clay. Moist										
	2-SS	32						ND						
			6											
	3-SS	78						ND						
			8	Grayish Brown Clayey SILT. trace Sand and Gravel Moist										
	4-SS	83						ND						
			10											
	5-SS	94						ND						
			12	END OF BORING: 12'										
				Water encountered at 3' during drilling										
			14	Boring caved and dry at 8' upon completion										
			16											
			18											
			20											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: MIDWEST ENGINEERING SERVICES. INC.

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

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Facility/Project Name	License/Permit/Monitoring Number	Boring Number
NESS SERVICE STATION		B-3

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MIDWEST ENGINEERING SERVICES, INC.	05/09/95 (MM/DD/YY)	05/09/95 (MM/DD/YY)	H.S.A.

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			____ Feet MSL	-- Feet MSL	6.0 inches

Boring Location
State Plane ____ N. ____ E. S/C/N
NE 1/4 of NW 1/4 of Section 35, T 24 N, R 20 (E) W
Lat ° ' "
Long ° ' "

Local Grid Location (if applicable)
____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/or Village
BROWN	05	GREEN BAY

Sample Number and Type	Sample Length Att. Recorded (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RD/ Comments
			0	Note A: Grayish Brown fine Sandy SILT. Moist										
			2	Brown Silty SAND. Moist										
1-SS	23		4	Wet at 3'				ND						
2-SS	33		6	Brown Clayey SILT. little Sand. trace Gravel. Moist				110						
3-SS	67		8					180						
4-SS	43		10					ND						
5-SS	88		12	Grayish Brown Clayey SILT. trace Sand. Moist				ND						
				END OF BORING: 12'										
			14	Water encountered at 3' during drilling										
				Boring caved and dry at 9' upon completion										
			16	Note A: 2" +/- Asphaltic Concrete 4" +/- Concrete										
			18											
			20											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: MIDWEST ENGINEERING SERVICES, INC.

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State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Solid Waste
- ☐ Emergency Response
- ☐ Wastewater
- ☐ Superfund
- ☐ Haz. Waste
- ☐ Underground Tanks
- ☐ Water Resources
- ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

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Facility/Project Name	License/Permit/Monitoring Number	Boring Number
ESS SERVICE STATION	- - - - - - - -	B-4

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MIDWEST ENGINEERING SERVICES, INC.	05/09/95 (MM/DD/YY)	05/09/95 (MM/DD/YY)	H.S.A.

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
- - -	- - - - - - - -		____ Feet MSL	-- Feet MSL	6.0 inches

Boring Location
State Plane ____ N ____ E S/C/N
Lat ° ' "
NE 1/4 of NW 1/4 of Section 35, T 24 N, R 20 (E) W
Long ° ' "

Local Grid Location (if applicable)
☐ N ☐ E
____ Feet ☐ S ____ Feet ☐ W

County	DNR County Code	Civil Town/City/or Village
BROWN	05	GREEN BAY

Sample Number	Sample Type	Length Att. Recorded (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0	Note A:										
				2	Brown Silty SAND, trace Clay, Moist										
1	SS	10		4	Wet at 3'				ND						
2	SS	47		6	Brown Clayey SILT, trace Sand and Gravel Moist				ND						
3	SS	118		8					ND						
4	SS	96		10	Brownish Gray Clayey SILT, trace Sand Moist				ND						
5	SS	106		12					ND						
				14	END OF BORING: 12'										
				16	Water encountered at 3' during drilling										
				18	Boring caved and dry at 9' upon completion										
				20	Note A: 2" +/- Asphaltic Concrete 4" +/- Concrete										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: MIDWEST ENGINEERING SERVICES, INC.

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
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Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
NESS SERVICE STATION		B-5

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MIDWEST ENGINEERING SERVICES, INC.	05/10/95	05/10/95	H.S.A.

DNR Facility Well No.	Wi Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	– Feet MSL	6.0 inches

Boring Location
State Plane ____ N. ____ E S/C/N
NE 1/4 of NW 1/4 of Section 35 . T 24 N. R 20 E/W
Lat ° ' "
Long ° ' "

Local Grid Location (if applicable)
____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/or Village
BROWN	05	GREEN BAY

Sample Number and Type	Sample Length Att./Recorded (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Inde	P 200	RD/Comments
				2" +/- Asphaltic Concrete 6" +/- Brown SAND and GRAVEL										
			2	Brown Silty SAND, trace Clay, Moist										
1-SS	24/18	10	4					ND						
2-SS	24/18	19	6	Brown to Grayish Brown Clayey SILT, trace Sand Moist				5						
3-SS	24/18	45	8					ND						
4-SS	24/18	25	10					ND						
5-SS	24/18	31	12	Dark Grayish Brown Clayey SILT, trace Sand Moist				ND						
				END OF BORING: 12'										
			14	Water encountered at 3' during drilling										
				Boring caved and dry at 7' upon completion										
			16											
			18											
			20											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: MIDWEST ENGINEERING SERVICES, INC.

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State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Solid Waste
- ☐ Emergency Response
- ☐ Wastewater
- ☐ Superfund
- ☐ Haz. Waste
- ☐ Underground Tanks
- ☐ Water Resources
- ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
ESS SERVICE STATION		B-7

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MIDWEST ENGINEERING SERVICES, INC.	05/10/95 (MM/DD/YY)	05/10/95 (MM/DD/YY)	H.S.A.

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	-- Feet MSL	6.0 inches

Boring Location
State Plane ____ N ____ E S/C/N
NE 1/4 of NW 1/4 of Section 35 . T 24 N R 20 (E)/W
Lat ° ' "
Long ° ' "

Local Grid Location (if applicable)
____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W

County: BROWN
DNR County Code: 05
Civil Town/City/or Village: GREEN BAY

Sample Type	Sample Length Att. Recorded (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength			Index	P 200	RD/ Comments
			0	2" +/- Asphaltic Concrete 6" +/- Brown SAND and GRAVEL										
			2	Brown Silty CLAY, trace Sand, Moist										
	1-SS	7	4					ND						
	2-SS	12	6	Brown Clayey SILT, little Sand, Moist				ND						
	3-SS	85	8	Grayish Brown Clayey SILT, little Sand, trace Gravel, Moist				ND						
	4-SS	88	10					ND						
	5-SS	70	12					ND						
				END OF BORING: 12'										
			14	Water encountered at 3' during drilling										
				Boring caved and dry at 7' upon completion										
			16											
			18											
			20											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature]
Firm: MIDWEST ENGINEERING SERVICES, INC.

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W

11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112, or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instruction on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NE 1/4 of NW 1/4 of Sec. 35; T. 24 N; R. 20 [x] E [ ] W

County: Brown

(If applicable) _____ Gov't Lot _____ Grid Number

Grid Location _____ ft. [ ] N. [ ] S. _____ ft. [ ] E. [ ] W.

Civil Town Name: Hobart

Street Address of Well: 975 W. Mason Street

City, Village: Green Bay

(2) FACILITY NAME

Original Well Owner (If Known):

Present Well Owner: Ness Service Station

Street or Route: 975 W. Mason Street

City, State, Zip Code: Green Bay, Wisconsin

Facility Well No.&/or Name (If Applicable): B-1A

WI Unique Well No.: _____

Reason For Abandonment: Borehole Only

Date of Abandonment: 5/9/95

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 5/9/95

[ ] Monitoring Well
[ ] Water Well
[ ] Drillhole
[x] Borehole

Construction Report Available? [x] Yes [ ] No

Construction Type:
[x] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify) _____

Formation Type:
[x] Unconsolidated Formation [ ] Bedrock

Total Borehole Depth (ft.) 4
(From groundsurface)

Casing Depth (ft.) _____

Was Well Annular Space Grouted? [ ] Yes [ ] No [ ] Unknown
If Yes, to What Depth? _____ Feet

(4) Depth to Water (Feet) N/A

Pump & Piping Removed? [ ] Yes [ ] No [x] Not Applicable
Liner(s) Removed? [ ] Yes [ ] No [x] Not Applicable
Screen Removed? [ ] Yes [ ] No [x] Not Applicable
Casing Left In Place? [ ] Yes [ ] No [x] Not Applicable
If No, Explain _____

Was Casing Cut Off Below Surface? [ ] Yes [x] No
Did Sealing Material Rise to Surface? [ ] Yes [x] No
Did Material Settle After 24 Hours? [ ] Yes [x] No
If Yes, Was Hole Retopped? [ ] Yes [x] No

(5) Required Method of Placing Sealing Material
[ ] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [x] Gravity

(6) Sealing Materials — For Monitoring wells and monitoring well boreholes only
[ ] Neat Cement Grout
[ ] Sand-Cement (Concrete) Grout
[ ] Concrete
[ ] Clay-Sand Slurry
[ ] Bentonite-Sand Slurry
[x] Chipped Bentonite
[ ] Bentonite Pellets
[ ] Granular Bentonite
[ ] Bentonite-Cement-Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
3/8" Chipped Bentonite	Surface	2	1/2 Bag	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Midwest Engineering Services, Inc.

Signature of Person Doing Work: [signature]
Date Signed: 5/26/95

Street or Route: 1280 Van Dyke Road, Unit 4
Telephone Number: (414) 735-1200

City, State, Zip Code: Appleton, Wisconsin 54915

DNR/COUNTY

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected

District/Court

Reviewer/Inspector

Follow-up Necessary

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112, or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instruction on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: [x] E
NE 1/4 of NW 1/4 of Sec. 35; T. 24 N; R. 20 [ ] W

(If Applicable) _____ Gov't Lot _____ Grid Number

Grid Location _____ ft. [ ] N. [ ] S. _____ ft. [ ] E. [ ] W.

Civil Town Name: Hobart

Street Address of Well: 975 W. Mason Street

City, Village: Green Bay

County: Brown

(2) FACILITY NAME

Original Well Owner (If Known):

Present Well Owner: Ness Service Station

Street or Route: 975 W. Mason Street

City, State, Zip Code: Green Bay, Wisconsin

Facility Well No.&/or Name (If Applicable): B-2

WI Unique Well No.: _____

Reason For Abandonment: Borehole Only

Date of Abandonment: 5/9/95

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 5/9/95

[ ] Monitoring Well
[ ] Water Well
[ ] Drillhole
[x] Borehole

Construction Report Available? [x] Yes [ ] No

Construction Type:
[x] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify) _____

Formation Type:
[x] Unconsolidated Formation [ ] Bedrock

Total Borehole Depth (ft.) 12
(From groundsurface)

Casing Depth (ft.) _____

Was Well Annular Space Grouted? [ ] Yes [ ] No [ ] Unknown
If Yes, to What Depth? _____ Feet

(4) Depth to Water (Feet) N/A

Pump & Piping Removed? [ ] Yes [ ] No [x] Not Applicable
Liner(s) Removed? [ ] Yes [ ] No [x] Not Applicable
Screen Removed? [ ] Yes [ ] No [x] Not Applicable
Casing Left In Place? [ ] Yes [ ] No [x] Not Applicable
If No, Explain _____

Was Casing Cut Off Below Surface? [ ] Yes [x] No
Did Sealing Material Rise to Surface? [ ] Yes [x] No
Did Material Settle After 24 Hours? [ ] Yes [x] No
If Yes, Was Hole Retopped? [ ] Yes [x] No

(5) Required Method of Placing Sealing Material
[ ] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [x] Gravity

(6) Sealing Materials — For Monitoring wells and monitoring well boreholes only
[ ] Neat Cement Grout
[ ] Sand-Cement (Concrete) Grout
[ ] Concrete
[ ] Clay-Sand Slurry
[ ] Bentonite-Sand Slurry
[x] Chipped Bentonite
[ ] Bentonite Pellets
[ ] Granular Bentonite
[ ] Bentonite-Cement-Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
3/8" Chipped Bentonite	Surface	8	2 Bags	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Midwest Engineering Services, Inc.

Signature of Person Doing Work: [signature] Date Signed: 5/26/95

Street or Route: 1250 Van Dyke Road, Unit 4
Telephone Number: (414) 735-1200

City, State, Zip Code: Appleton, Wisconsin 54915

DNR/COUNTY

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected: _____ District/County: _____

Reviewer/Inspector: _____

Follow-up Necessary: _____

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112, or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instruction on back.

1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NE 1/4 of NW 1/4 of Sec. 35; T. 24 N; R. 20 [x] E [ ] W

County: Brown

(If applicable) _____ Gov't Lot _____ Grid Number

Grid Location: _____ ft. [ ] N. [ ] S. _____ ft. [ ] E. [ ] W.

Civil Town Name: Hobart

Street Address of Well: 975 W. Mason Street

City, Village: Green Bay

(2) FACILITY NAME

Original Well Owner (If Known):

Present Well Owner: Ness Service Station

Street or Route: 975 W. Mason Street

City, State, Zip Code: Green Bay, Wisconsin

Facility Well No.&/or Name (If Applicable): B-3

WI Unique Well No.: _____

Reason For Abandonment: Borehole Only

Date of Abandonment: 5/9/95

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 5/9/95

[ ] Monitoring Well
[ ] Water Well
[ ] Drillhole
[x] Borehole

Construction Report Available? [x] Yes [ ] No

Construction Type:
[x] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify) _____

Formation Type:
[x] Unconsolidated Formation [ ] Bedrock

Total Borehole Depth (ft.) 12
(From groundsurface)

Casing Depth (ft.) _____

Was Well Annular Space Grouted? [ ] Yes [ ] No [ ] Unknown
If Yes, to What Depth? _____ Feet

(4) Depth to Water (Feet) N/A

Pump & Piping Removed?	[ ] Yes	[ ] No	[x] Not Applicable
Liner(s) Removed?	[ ] Yes	[ ] No	[x] Not Applicable
Screen Removed?	[ ] Yes	[ ] No	[x] Not Applicable
Casing Left in Place?	[ ] Yes	[ ] No	[x] Not Applicable

If No, Explain _____

Was Casing Cut Off Below Surface?	[ ] Yes	[x] No
Did Sealing Material Rise to Surface?	[ ] Yes	[x] No
Did Material Settle After 24 Hours?	[ ] Yes	[x] No
If Yes, Was Hole Retopped?	[ ] Yes	[x] No

(5) Required Method of Placing Sealing Material
[ ] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [x] Gravity

(6) Sealing Materials — For Monitoring wells and monitoring well boreholes only
[ ] Neat Cement Grout
[ ] Sand-Cement (Concrete) Grout
[ ] Concrete
[ ] Clay-Sand Slurry
[ ] Bentonite-Sand Slurry
[x] Chipped Bentonite
[ ] Bentonite Pellets
[ ] Granular Bentonite
[ ] Bentonite-Cement-Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
3/8" Chipped Bentonite	Surface	9	2 1/2 Bags	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Midwest Engineering Services, Inc.

Signature of Person Doing Work: [signature] Date Signed: 5/26/95

Street or Route: 1280 Van Dyke Road, Unit 4
Telephone Number: (414) 735-1200

City, State, Zip Code: Appleton, Wisconsin 54915

DNR/COUNTY

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected

District/County

Reviewer/Inspector

Follow-up Necessary

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112, or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instruction on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Brown

NE 1/4 of NW 1/4 of Sec. 35; T. 24 N; R. 20 [x] E [ ] W

(If applicable) Gov't Lot _____ Grid Number _____

Grid Location _____ ft. [ ] N. [ ] S. _____ ft. [ ] E. [ ] W.

Civil Town Name: Hobart

Street Address of Well: 975 W. Mason Street

City, Village: Green Bay

(2) FACILITY NAME

Original Well Owner (If Known):

Present Well Owner: Ness Service Station

Street or Route: 975 W. Mason Street

City, State, Zip Code: Green Bay, Wisconsin

Facility Well No.&/or Name (If Applicable): B-4

WI Unique Well No.: _____

Reason For Abandonment: Borehole Only

Date of Abandonment: 5/9/95

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 5/9/95

[ ] Monitoring Well
[ ] Water Well
[ ] Drillhole
[x] Borehole

Construction Report Available? [x] Yes [ ] No

Construction Type:
[x] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify) _____

Formation Type:
[x] Unconsolidated Formation [ ] Bedrock

To Borehole Depth (ft.) From groundsurface) 12

Casing Depth (ft.) _____

Was Well Annular Space Grouted? [ ] Yes [ ] No [ ] Unknown
If Yes, to What Depth? _____ Feet

(4) Depth to Water (Feet) N/A

Pump & Piping Removed? [ ] Yes [ ] No [x] Not Applicable
Liner(s) Removed? [ ] Yes [ ] No [x] Not Applicable
Screen Removed? [ ] Yes [ ] No [x] Not Applicable
Casing Left In Place? [ ] Yes [ ] No [x] Not Applicable
If No, Explain _____

Was Casing Cut Off Below Surface? [ ] Yes [x] No
Did Sealing Material Rise to Surface? [ ] Yes [x] No
Did Material Settle After 24 Hours? [ ] Yes [x] No
If Yes, Was Hole Retopped? [ ] Yes [x] No

(5) Required Method of Placing Sealing Material
[ ] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [x] Gravity

(6) Sealing Materials — For Monitoring wells and monitoring well boreholes only
[ ] Neat Cement Grout
[ ] Sand-Cement (Concrete) Grout
[ ] Concrete
[ ] Clay-Sand Slurry
[ ] Bentonite-Sand Slurry
[x] Chipped Bentonite
[ ] Bentonite Pellets
[ ] Granular Bentonite
[ ] Bentonite-Cement-Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
3/8" Chipped Bentonite	Surface	9	2 1/2 Bags	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Midwest Engineering Services, Inc.

Signature of Person Doing Work: [signature]
Date Signed: 5/26/95

Street or Route: 1250 Van Dyke Road, Unit 4
Telephone Number: (414) 735-1200

City, State, Zip Code: Appleton, Wisconsin 54915

DNR/COUNTY

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected

District/Court

Reviewer/Inspector

Follow-up Necessary

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W

11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112, or NR 141, Wis. Admin, Code, whichever is applicable. Also, see instruction on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NE 1/4 of NW 1/4 of Sec. 35; T. 24 N; R. 20 [x] E [ ] W

County: Brown

(If applicable) _____ Gov't Lot _____ Grid Number

Grid Location _____ ft. [ ] N. [ ] S. _____ ft. [ ] E. [ ] W.

Civil Town Name: Hobart

Street Address of Well: 975 W. Mason Street

City, Village: Green Bay

(2) FACILITY NAME

Original Well Owner (If Known):

Present Well Owner: Ness Service Station

Street or Route: 975 W. Mason Street

City, State, Zip Code: Green Bay, Wisconsin

Facility Well No.&/or Name (If Applicable): B-5

WI Unique Well No.: _____

Reason For Abandonment: Borehole Only

Date of Abandonment: 5/10/95

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 5/10/95

[ ] Monitoring Well
[ ] Water Well
[ ] Drillhole
[x] Borehole

Construction Report Available? [x] Yes [ ] No

Construction Type:
[x] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify) _____

Formation Type:
[x] Unconsolidated Formation [ ] Bedrock

Total Borehole Depth (ft.) 12 (From groundsurface)

Casing Depth (ft.) _____

Was Well Annular Space Grouted? [ ] Yes [ ] No [ ] Unknown
If Yes, to What Depth? _____ Feet

(4) Depth to Water (Feet) N/A

Pump & Piping Removed? [ ] Yes [ ] No [x] Not Applicable
Liner(s) Removed? [ ] Yes [ ] No [x] Not Applicable
Screen Removed? [ ] Yes [ ] No [x] Not Applicable
Casing Left in Place? [ ] Yes [ ] No [x] Not Applicable
If No, Explain _____

Was Casing Cut Off Below Surface? [ ] Yes [x] No
Did Sealing Material Rise to Surface? [ ] Yes [x] No
Did Material Settle After 24 Hours? [ ] Yes [x] No
If Yes, Was Hole Retopped? [ ] Yes [x] No

(5) Required Method of Placing Sealing Material
[ ] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [x] Gravity

(6) Sealing Materials — For Monitoring wells and monitoring well boreholes only
[ ] Neat Cement Grout
[ ] Sand-Cement (Concrete) Grout
[ ] Concrete
[ ] Clay-Sand Slurry
[ ] Bentonite-Sand Slurry
[x] Chipped Bentonite
[ ] Bentonite Pellets
[ ] Granular Bentonite
[ ] Bentonite-Cement-Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
3/8" Chipped Bentonite	Surface	7	2 Bags	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Midwest Engineering Services, Inc.

Signature of Person Doing Work: [signature] Date Signed: 5/26/95

Street or Route: 1280 Van Dyke Road, Unit 4

Telephone Number: (414) 735-1200

City, State, Zip Code: Appleton, Wisconsin 54915

DNR/COUNTY

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected

District/Court

Reviewer/Inspector

Follow-up Necessary

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W 11-89

Abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112, or NR 141, Wis. Admin. Code, whichever is applicable. Also, see Instruction on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Brown

NE 1/4 of NW 1/4 of Sec. 35; T. 24 N; R. 20 [x] E [ ] W

(If applicable) Gov't Lot _____ Grid Number

Grid Location _____ ft. [ ] N. [ ] S. _____ ft. [ ] E. [ ] W.

Civil Town Name: Hobart

Street Address of Well: 975 W. Mason Street

City, Village: Green Bay

(2) FACILITY NAME

Original Well Owner (If Known):

Present Well Owner: Ness Service Station

Street or Route: 975 W. Mason Street

City, State, Zip Code: Green Bay, Wisconsin

Facility Well No.&/or Name (If Applicable): B-7

WI Unique Well No.: _____

Reason For Abandonment: Borehole Only

Date of Abandonment: 5/10/95

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 5/10/95

[ ] Monitoring Well
[ ] Water Well
[ ] Drillhole
[x] Borehole

Construction Report Available? [x] Yes [ ] No

Construction Type:
[x] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify) _____

Formation Type:
[x] Unconsolidated Formation [ ] Bedrock

Total Borehole Depth (ft.) 12
(From groundsurface)

Casing Depth (ft.) _____

Was Well Annular Space Grouted? [ ] Yes [ ] No [ ] Unknown
If Yes, to What Depth? _____ Feet

(4) Depth to Water (Feet) N/A

Pump & Piping Removed? [ ] Yes [ ] No [x] Not Applicable
Liner(s) Removed? [ ] Yes [ ] No [x] Not Applicable
Screen Removed? [ ] Yes [ ] No [x] Not Applicable
Casing Left in Place? [ ] Yes [ ] No [x] Not Applicable
If No, Explain _____

Was Casing Cut Off Below Surface? [ ] Yes [x] No
Did Sealing Material Rise to Surface? [ ] Yes [x] No
Did Material Settle After 24 Hours? [ ] Yes [x] No
If Yes, Was Hole Retopped? [ ] Yes [x] No

(5) Required Method of Placing Sealing Material
[ ] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [x] Gravity

(6) Sealing Materials — For Monitoring wells and monitoring well boreholes only
[ ] Neat Cement Grout
[ ] Sand-Cement (Concrete) Grout
[ ] Concrete
[ ] Clay-Sand Slurry
[ ] Bentonite-Sand Slurry
[x] Chipped Bentonite
[ ] Bentonite Pellets
[ ] Granular Bentonite
[ ] Bentonite-Cement-Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
3/8" Chipped Bentonite	Surface	7	2 Bags	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Midwest Engineering Services, Inc.

Signature of Person Doing Work: [signature]
Date Signed: 5/26/95

Street or Route: 1360 Van Dyke Road, Unit 4
Telephone Number: (414) 735-1200

City, State, Zip Code: Appleton, Wisconsin 54915

DNR/COUNTY

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected

District/Court

Reviewer/Inspector

Follow-up Necessary

ate of Wisconsin
partment of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

cility/Project Name: Ness Service Station

Local Grid Location of Well: _____ ft. ☐N ☐S, _____ ft. ☐E ☐W

Well Name: MW-1B

cility License, Permit or Monitoring Number: _____

Grid Origin Location: Lat. _____ Long. _____ or

Wis. Unique Well Number / DNR Well Number

pe of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12

St. Plane _____ ft. N, _____ ft. E.

Date Well Installed: 05/09/95 (m m / d d / y y)

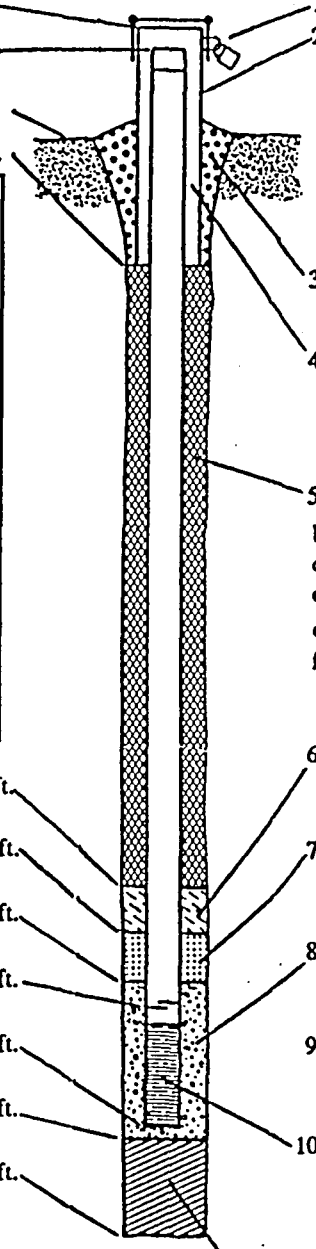
stance Well Is From Waste/Source Boundary: _____ ft.

Section Location of Waste/Source: NE 1/4 of NW 1/4 of Sec. 35, T. 24 N, R. 20 ☒E ☐W

Well Installed By: (Person's Name and Firm)
Dean Anderson
Midwest Engineering Services

Well A Point of Enforcement Std. Application? ☐ Yes ☐ No

Location of Well Relative to Waste/Source: u ☐ Upgradient; s ☐ Sidegradient; d ☐ Downgradient; n ☐ Not Known



Protective pipe, top elevation _____ ft. MSL
Well casing, top elevation _____ ft. MSL
Land surface elevation _____ ft. MSL
Surface seal, bottom _____ ft. MSL or _____ ft.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 9.0 in.
   b. Length: 1.0 ft.
   c. Material: Steel ☒ 04; Other ☐ __
   Flushmount
   d. Additional protection? ☒ Yes ☐ No
   If yes, describe: Locking Expandable Cap
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐ __; Other ☐ __
5. Annular space seal: a. Granular Bentonite ☐ 33; b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35; c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31; d. _____ % Bentonite ..... Bentonite-cement grout ☐ 50; e. _____ Ft³ volume added for any of the above
   f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33; b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite pellets ☐ 32; c. Chips Other ☐ __
7. Fine sand material: Manufacturer, product name & mesh size
   a. Badger Mining 40/60
   b. Volume added 0.25 ft³
8. Filter pack material: Manufacturer, product name and mesh size
   a. Badger Mining .85/.95
   b. Volume added 2.5 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ __
10. Screen material: PVC
    a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐ __
    b. Manufacturer Diedrich
    c. Slot size: 0.010 in.
    d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 14; Other ☐ __

Bentonite seal, top _____ ft. MSL or 1.0 ft.
Fine sand, top _____ ft. MSL or 2.0 ft.
Filter pack, top _____ ft. MSL or 2.5 ft.
Screen joint, top _____ ft. MSL or 3.0 ft.
Well bottom _____ ft. MSL or 13.0 ft.
Filter pack, bottom _____ ft. MSL or 13.5 ft.
Borehole, bottom _____ ft. MSL or 13.5 ft.
Borehole, diameter 8.0 in.
. O.D. well casing 2.00 in.
. I.D. well casing 2.40 in.

2. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

. Sieve analysis attached? ☐ Yes ☒ No

. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ __

. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

. Drilling additives used? ☐ Yes ☒ No
Describe _____

. Source of water (attach analysis):

I hereby certify that the information on this form is true and correct to the best of my knowledge.

gnature | Firm: Midwest Engineering Services, Inc.

ease complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., d ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than 000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each y of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

ENVIROGEN

Attachment D

Soil Sample Laboratory Analytical Reports

MONTGOMERY WATSON
Analytical Testing Services

April 19, 1995

Ms. Charlene T. Stinson
Robert E. Lee & Associates, Inc.
Engineering, Surveying, Laboratory Services
2825 South Webster Avenue
P.O. Box 2100
Green Bay, Wisconsin 54306-2100

Re: Ness Service Center/2390-002

Dear Ms. Stinson:

Enclosed are the analytical results and chain-of-custody for the samples collected March 29, 1995 and received March 31, 1995. Our lab certification number is 113138300. Also enclosed is our Invoice No. ML265.

Please feel free to call if you have any questions.

Sincerely,

MONTGOMERY WATSON
Analytical Testing Services

Dennis J. Linley
Lab Services Coordinator

Enclosures: As stated

cc: D. Linley
K. Killian

SMT/dsk/GLG
G:\DMGMT\LETTERS\42860220.DOC
L10453

University Research Park
One Science Court
Madison, Wisconsin
53711

Tel: 608 231 4747
Fax: 608 231 4777

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

STANDARD REPORT FOOTNOTES

A1 Elevated quantitation limit due to low sample volume.

A2 Elevated quantitation limit necessary to overcome interference.

A4 Result should be considered estimated due to sample-related problems encountered during analysis.

A11 Sample received past recommended hold time.

A12 Analysis requested past recommended hold time.

A13 Initial analysis performed within hold time; confirmation analysis performed past recommended hold time. Results from repeat analysis are reported.

A14 Initial analysis performed within hold time; necessary dilution performed past recommended hold time. Results from repeat analysis are reported.

A15 Result should be considered estimated; analyte detected in method blank.

A17 Result should be considered estimated as indicated by method QC.

M3 Total analysis performed due to insufficient solid for TCLP extraction.

G1 Result should be considered estimated, concentration exceeds working calibration range.

G2 Elevated quantitation limit due to the concentration of petroleum hydrocarbons in the sample.

G3 Elevated quantitation limit due to the concentration of non-specific hydrocarbons in the sample.

G4 Analyte coelutes with _____; result calculated from calibration standards in a 1:1 ratio of these two compounds.

G5 Sample required extensive cleanup; Endrin Aldehyde is not recovered from these techniques.

G6 Petroleum-type odor detected from this sample.

G7 Elevated quantitation limit due to the concentration of PCBs in the sample.

G8 Result should be considered estimated due to coelution with an additional hydrocarbon product.

G9 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products.

G10 Presence of one or more unidentified peaks eluting earlier than the retention time window.

G11 Presence of one or more unidentified peaks eluting later than the retention time window.

G12 Result is estimated. The method used is a screening procedure for this compound.

G13 Measurement performed using test strips.

G15 n-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from Diphenylamine.

G16 Measurement upon receipt performed using test strips. Adjusted to pH <2.

G17 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products. Final results pending GC/MS confirmation.

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

METHOD REFERENCES

	Soil/Groundwater				Wastewater			
Analytes	ICP	Flame	Furnace	CV	ICP	Flame	Furnace	CV
Aluminium	6010	7020	-	-	200.7	202.1	-	-
Antimony	6010	7040	7041	-	200.7	-	204.2	-
Arsenic	6010	-	7060	-	200.7	-	206.2	-
Barium	6010	7080	7081	-	200.7	208.1	208.2	-
Beryllium	6010	7090	7091	-	200.7	210.1	210.2	-
Boron	6010	-	-	-	200.7	-	-	-
Cadmium	6010	7130	7131	-	200.7	213.1	213.2	-
Calcium	6010	7140		-	200.7	215.1	-	-
Chromium, Total	6010	7190	7191	-	200.7	218.1	218.2	-
Cobalt	6010	7200	-	-	200.7	219.1	-	-
Copper	6010	7210	-	-	200.7	220.1	-	-
Iron	6010	7380	-	-	200.7	236.1	-	-
Lead	6010	7420	7421	-	200.7	239.1	239.2	-
Magnesium	6010	7450	-	-	200.7	242.1	-	-
Manganese	6010	7460	-	-	200.7	243.1	-	-
Mercury	-	-	-	7470/7471				245.1
Molybdenum	6010	7480	-	-	200.7	246.1	-	-
Nickel	6010	7520	-	-	200.7	249.1	-	-
Potassium	-	SM3500D	-	-	-	SM3500D	-	-
Selenium	6010	-	7740	-	200.7	-	270.2	-
Silver	6010	7760	7761	-	200.7	272.1	272.2	-
Sodium	6010	SM3500D	-	-	200.7	SM3500D	-	-
Strontium	6010	-	-	-	200.7	-	-	-
Thallium	6010	7840	7841	-	200.7	279.1	279.2	-
Tin	6010	-	-	-	200.7	-	-	-
Titanium	6010	-	-	-	200.7	-	-	-
Vanadium	6010	7910	7911	-	200.7	286.1	286.2	-
Zinc	6010	7950	-	-	200.7	289.1	-	-

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

METHOD REFERENCES

Compounds	Soil/Groundwater	Wastewater
Alcohol	8015*	8015*
BEXT	8020***	602
DRO	Modified DRO	Modified DRO
GRO	Modified GRO***	Modified GRO
Herbicides	8150	8150
Pesticides	8080	608
Pesticide/PCBs	8080	608
PCBs	8080**	608
PCBs	8080****	608
PCP Screen	8040****	8040****
PNA (GC/MS)	8270	8270
PNA (HPLC)	8310	8310
PVOCs	8020***	8020
SVOCs	8270	8270
TPH	D-3328-78*	D-3328-78*
TRPH	418.1 & 9073	418.1 & 9073
VOCs	8021	8021
VOCs	8010/8020***	601/602
Solids, Total	160.3	160.3

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Organic Chemical Analysis of Water and Wastes", March, 1984.

ASTM, "Annual Book of ASTM Standards", 1990.

Wisconsin DNR Modified 9073 TRPH, PUBL-SW-140, Wisconsin DNR, April 1992.

Wisconsin DNR Modified DRO, PUBL-SW-141, Wisconsin DNR, July 1993.

Wisconsin DNR Modified GRO, PUBL-SW-140, Wisconsin DNR, July 1993.

* With Modifications
** With Modfications for Oil Matrix
*** With Modfications for Soil Gas Matrix
**** With Modifications for Wipe Matrix

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

INORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #: L10453-001
Description: HB1 (5'-6')
Sample Date: 29-MAR-95
Receipt Date: 31-MAR-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	6.96	5	0.15	Solid	mg/kg	JB	13-APR-95	
Solids, Total	85.8		0.5	Solid	%		03-APR-95	

Sample #: L10453-002
Description: HB2 (4'-5')
Sample Date: 29-MAR-95
Receipt Date: 31-MAR-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	3.57	1	0.15	Solid	mg/kg	JB	13-APR-95	
Solids, Total	81.7		0.5	Solid	%		03-APR-95	

Sample #: L10453-003
Description: HB3 (4.5'-5'
Sample Date: 29-MAR-95
Receipt Date: 31-MAR-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	4.27	1	0.15	Solid	mg/kg	JB	13-APR-95	
Solids, Total	87.6		0.5	Solid	%		03-APR-95	

Note: Results in mg/kg are reported on a dry weight basis.

MDL = Method Detection Limit
WI Lab Certification ID#: 113138300

Chk'd: DSK App'd: CAW
Date App'd: 4.20.95

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

GASOLINE RANGE ORGANICS (GRO)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Petroleum Odor	Footnotes
L10453-001	HB1 (5'-6')	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 29-MAR-95						
		Analysis Date: 03-APR-95						
L10453-002	HB2 (4'-5')	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 29-MAR-95						
		Analysis Date: 03-APR-95						
L10453-003	HB3 (4.5'-5'	Gasoline Range Organics	50	10	Solid	mg/kg	Detected	
		Sample Date: 29-MAR-95						
		Analysis Date: 05-APR-95						
L10453-004	METHANOL TRIP BLANK	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 29-MAR-95						
		Analysis Date: 05-APR-95						

Note: Results in mg/kg are reported on a dry weight basis.

WI Lab Certification ID#: 113138300

Chk'd: [illegible] App'd: CAW
Date App'd: 4.20.95

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

PETROLEUMPETROLEUM VOLATILE ORGANIC (PVOC) UNPRES
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Dil	MDL	Matrix	Units	Footnotes
10453-001	HB1 (5'-6')	Benzene	< 5.8	5	5.0	Solid	ug/kg	
		Methyl tert-butyl ether	< 5.8	5	5.0	Solid	ug/kg	
		Ethylbenzene	< 5.8	5	5.0	Solid	ug/kg	
		Toluene	< 5.8	5	5.0	Solid	ug/kg	
		1,2,4-Trimethylbenzene	< 5.8	5	5.0	Solid	ug/kg	
		1,3,5-Trimethylbenzene	< 5.8	5	5.0	Solid	ug/kg	
		m + p-Xylene	< 12	5	10	Solid	ug/kg	
		o-Xylene	< 5.8	5	5.0	Solid	ug/kg	
		Sample Date: 29-MAR-95						
		Receipt Date: 31-MAR-95						
		Analysis Date: 07-APR-95						
		Analyst: AJK						
10453-002	HB2 (4'-5')	Benzene	< 6.1	5	5.0	Solid	ug/kg	
		Methyl tert-butyl ether	< 6.1	5	5.0	Solid	ug/kg	
		Ethylbenzene	< 6.1	5	5.0	Solid	ug/kg	
		Toluene	< 6.1	5	5.0	Solid	ug/kg	
		1,2,4-Trimethylbenzene	< 6.1	5	5.0	Solid	ug/kg	
		1,3,5-Trimethylbenzene	< 6.1	5	5.0	Solid	ug/kg	
		m + p-Xylene	< 12	5	10	Solid	ug/kg	
		o-Xylene	< 6.1	5	5.0	Solid	ug/kg	
		Sample Date: 29-MAR-95						
		Receipt Date: 31-MAR-95						
		Analysis Date: 07-APR-95						
		Analyst: AJK						
10453-003	HB3 (4.5'-5'	Benzene	< 5.7	5	5.0	Solid	ug/kg	
		Methyl tert-butyl ether	31	5	5.0	Solid	ug/kg	
		Ethylbenzene	780	250	5.0	Solid	ug/kg	
		Toluene	370	250	5.0	Solid	ug/kg	
		1,2,4-Trimethylbenzene	5300	500	5.0	Solid	ug/kg	A14, A17
		1,3,5-Trimethylbenzene	1900	250	5.0	Solid	ug/kg	
		m + p-Xylene	2900	250	10	Solid	ug/kg	
		o-Xylene	1300	250	5.0	Solid	ug/kg	
		Sample Date: 29-MAR-95						
		Receipt Date: 31-MAR-95						
		Analysis Date: 07, 12, 13-APR-95						
		Analyst: AJK						

Note: Results in ug/kg are reported on a dry weight basis.

Dil = Dilution
MDL = Method detection Limit
WI Lab Certification ID#: 113138300

Chk'd: DSJ App'd: CAW
Date App'd: 4.20.95

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PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10453-001	HB1 (5'-6')	Naphthalene	< 0.33	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	0.33	Solid	mg/kg	
		Fluorene	< 0.066	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	0.033	Solid	mg/kg	
		Anthracene	< 0.033	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	0.066	Solid	mg/kg	
		Pyrene	< 0.033	0.033	Solid	mg/kg	
		Chrysene	< 0.033	0.033	Solid	mg/kg	
		Benzo(a)anthracene	< 0.0033	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	0.0095	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	0.0050	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	0.0062	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	0.011	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	0.012	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	0.33	Solid	mg/kg	

Sample Date: 29-MAR-95
Extract Date: 06-APR-95
Analysis Date: 07-APR-95

Note: Results in mg/kg are reported on a dry weight basis.

Chk'd: BSK App'd: CAW
Date App'd: 4.20.95

WI Lab Certification ID#: 113138300

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PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
10453-002	HB2 (4'-5')	Naphthalene	< 0.33	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	0.33	Solid	mg/kg	
		Fluorene	< 0.066	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	0.033	Solid	mg/kg	
		Anthracene	< 0.033	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	0.066	Solid	mg/kg	
		Pyrene	< 0.033	0.033	Solid	mg/kg	
		Chrysene	< 0.033	0.033	Solid	mg/kg	
		Benzo(a)anthracene	< 0.0033	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	< 0.0059	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	< 0.0033	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	< 0.0033	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	< 0.0033	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	< 0.0066	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	0.33	Solid	mg/kg	

Sample Date: 29-MAR-95
Extract Date: 06-APR-95
Analysis Date: 07-APR-95

Note: Results in mg/kg are reported on a dry weight basis.

WI Lab Certification ID#: 113138300

Chk'd: RJK App'd: AAW
Date App'd: 4.20.95

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PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10453-003	HB3 (4.5'-5'	Naphthalene	< 0.33	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	0.33	Solid	mg/kg	
		Fluorene	< 0.066	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	0.033	Solid	mg/kg	
		Anthracene	< 0.033	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	0.066	Solid	mg/kg	
		Pyrene	< 0.033	0.033	Solid	mg/kg	
		Chrysene	< 0.033	0.033	Solid	mg/kg	
		Benzo(a)anthracene	0.0057	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	< 0.0059	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	< 0.0033	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	0.0053	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	< 0.0033	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	< 0.0066	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	0.33	Solid	mg/kg	

Sample Date: 29-MAR-95
Extract Date: 06-APR-95
Analysis Date: 07-APR-95

Note: Results in mg/kg are reported on a dry weight basis.

Chk'd: [illegible] App'd: CAW
Date App'd: 4.20.95

WI Lab Certification ID#: 113138300

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DIESEL RANGE ORGANICS (DRO)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Petroleum Odor	Footnotes
L10453-001	HB1 (5'-6')	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 29-MAR-95						
		Extract Date: 05-APR-95						
		Analysis Date: 05-APR-95						
L10453-002	HB2 (4'-5')	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 29-MAR-95						
		Extract Date: 05-APR-95						
		Analysis Date: 05-APR-95						
L10453-003	HB3 (4.5'-5'	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 29-MAR-95						
		Extract Date: 05-APR-95						
		Analysis Date: 05-APR-95						

Note: Results in mg/kg are reported on a dry weight basis.

Chk'd: PSK App'd: CAW
Date App'd: 4-26-95

WI Lab Certification ID#: 113138300

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INORGANIC
QUALITY CONTROL REPORT

Project: Robert E. Lee/ Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled: 3/29/95
Date Received: 3/31/95
Date Analyzed: 4/03/95
Analyst: JS

Matrix Spike Results

Compound	Batch Number	%Recovery	Control Limits
Lead	36197	83	77-128% Recovery

Duplicate Results

Compound	Batch Number	Sample Results (%)	DUP Results (%)	% RPD	Control Limits
Lead	36266	231	256	10.3	27
Solids, Total	35899	85.8	85.0	0.9	5.0

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GASOLINE RANGE ORGANICS (GRO)
QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled: 3/29/95
Date Received: 3/31/95
Date Analyzed: 3/31/95
Analyst: AJK

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria.

Method Blank Results

All associated method blanks were below method detection limits.

Water Spike/Water Spike Duplicate

Compound	Batch Number	Water Spike Recovery (%)	Water Spike Dup. Recovery (%)	RPD (%)	Control Limits
GRO #1	36071	119.8	117.5	1.9	80-120% recovery, 20% RPD
GRO #2	36071	98.7	105.0	6.2	80-120% recovery, 20% RPD
GRO #3	36071	93.9	99.2	5.5	80-120% recovery, 20% RPD

Soil Spike Results

Compound	Batch Number	Soil Spike Recovery (%)	Control Limits
GRO #1	36071	117.3	70-140% recovery
GRO #2	36071	102.3	70-140% recovery
GRO #3	36071	102.8	70-140% recovery

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PETROLEUM VOLATILE ORGANIC (PVOC) QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled: 3/29/95
Date Received: 3/31/95
Date Analyzed: 4/7-12/95
Analyst: AJK

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria.

Method Checks

Compound	Batch Number	MC-4/07/95	MC-4/11/95	MC-4/12/95
Benzene	36172	108	92	82
Toluene	36172	106	90	81

Method Blank Results

All associated method blanks were below method detection limits.

Matrix Spike/Matrix Spike Duplicate Results

Compound	MS Recovery Batch Number	MSD Recovery %	RPD %	%	Control Limits
Benzene	36172	89	94	6	63-133% recovery, 25% RPD
Toluene	36172	86	91	5	58-116% recovery, 27% RPD

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PETROLEUM VOLATILE ORGANIC (PVOC) QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled: 3/29/95
Date Received: 3/31/95
Date Analyzed: 4/7-12/95
Analyst: AJK

Surrogate Recoveries

Lab Number	Batch Number	a,a,a-Trifluorotoluene Recovery (%) (PID Detector)	Control Limits
Blank4-07	36172	109	51-116% recovery
Blank 4-11	36172	93	51-116% recovery
Blank 4-12	36172	79	51-116% recovery
L10453-001	36172	84	51-116% recovery
L10453-002	36172	90	51-116% recovery
L10453-003 1/250	36172	98	51-116% recovery
L10453-003 1/500	36172	68	51-116% recovery

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PNA/PAH (HPLC) ORGANIC QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled:: 3/27/95
Date Received: 3/29/95
Date Extracted: 4/06/95
Date Analyzed: 4/07/95
Analyst: CMK

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria.

Method Blank Results

All associated method blanks were below method detection limits.

Method Check/Method Check Duplicate Results

Compound	Batch Number	MC Recovery (%)	MCD Recovery (%)	RPD (%)	Control Limits
Naphthalene	36163	71	N/A	N/A	64-113% Recovery, 27% RPD
Acenaphthylene	36163	77	N/A	N/A	69-108% Recovery, 26% RPD
Acenaphthene	36163	78	N/A	N/A	69-110% Recovery, 24% RPD
Fluorene	36163	82	N/A	N/A	71-116% Recovery, 23% RPD
Phenanthrene	36163	84	N/A	N/A	70-125% Recovery, 24% RPD
Anthracene	36163	79	N/A	N/A	61-123% Recovery, 24% RPD
Fluoranthene	36163	89	N/A	N/A	74-120% Recovery, 19% RPD
Pyrene	36163	95	N/A	N/A	71-141% Recovery, 31% RPD
Benzo(a)anthracene	36163	91	N/A	N/A	72-126% Recovery, 23% RPD
Chrysene	36163	92	N/A	N/A	75-119% Recovery, 34% RPD
Benzo(b)fluoranthene	36163	90	N/A	N/A	73-118% Recovery, 17% RPD
Benzo(k)fluoranthene	36163	89	N/A	N/A	69-115% Recovery, 20% RPD
Benzo(a)pyrene	36163	74	N/A	N/A	44-126% Recovery, 26% RPD
Dibenzo(ah)anthracene	36163	78	N/A	N/A	58-111% Recovery, 26% RPD
Benzo(ghi)perylene	36163	81	N/A	N/A	59-128% Recovery, 20% RPD
Indeno(123cd)pyrene	36163	80	N/A	N/A	56-123% Recovery, 23% RPD

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PNA/PAH (HPLC) ORGANIC QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled:: 3/27/95
Date Received: 3/29/95
Date Extracted: 4/06/95
Date Analyzed: 4/07/95
Analyst: CMK

Matix Spike/Matrix Spike Duplicate Results

Compound	Batch Number	MS Recovery (%)	MSD Recovery (%)	RPD (%)	Control Limits
Naphthalene	36163	105	126(a)	19	64-113% Recovery, 27% RPD
Acenaphthylene	36163	92	124(a)	30(b)	69-108% Recovery, 26% RPD
Acenaphthene	36163	132(a)	231(a)	54(b)	69-110% Recovery, 24% RPD
Fluorene	36163	107	189(a)	56(b)	71-116% Recovery, 23% RPD
Phenanthrene	36163	113	178(a)	45(b)	70-125% Recovery, 24% RPD
Anthracene	36163	108	101	6	61-123% Recovery, 24% RPD
Fluoranthene	36163	137(a)	182(a)	28(b)	74-120% Recovery, 19% RPD
Pyrene	36163	147(a)	193(a)	27	71-141% Recovery, 31% RPD
Benzo(a)anthracene	36163	99	108	8	72-126% Recovery, 23% RPD
Chrysene	36163	112	118	6	75-119% Recovery, 34% RPD
Benzo(b)fluoranthene	36163	100	98	1	73-118% Recovery, 17% RPD
Benzo(k)fluoranthene	36163	98	97	0.7	69-115% Recovery, 29% RPD
Benzo(a)pyrene	36163	103	102	0.2	44-126% Recovery, 26% RPD
Dibenzo(ah)anthracene	36163	91	91	0.8	58-111% Recovery, 26% RPD
Benzo(ghi)perylene	36163	97	97	0.5	59-128% Recovery, 20% RPD
Indeno(123cd)pyrene	36163	95	94	0.9	56-123% Recovery, 23% RPD

(a) Elevated recoveries due to detects of PNAs in sample. Sample L10415-001 was flagged with an "A4" footnote. The other soils associated with this batch were not flagged.

(b) Exceeded control limits. Sample appears nonhomogeneous. Sample L10415-001 was flagged with an "A4" footnote. The other soils associated with this batch were not flagged.

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PNA/PAH (HPLC) ORGANIC QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled:: 3/27/95
Date Received: 3/29/95
Date Extracted: 4/06/95
Date Analyzed: 4/07/95
Analyst: CMK

Surrogate Recoveries

Lab Number	Batch Number	Carbazole (VWD) Recovery (%)	Control Limits	DFBP (VWD) Recovery (%)	Control Limits
RB B/157	36163	90	61-1131% Recovery	96	52-108% Recovery
MC B/157	36163	80	61-113% Recovery	81	52-108% Recovery
L10453-001	36163	86	61-113% Recovery	85	52-108% Recovery
L10453-002	36163	86	61-113% Recovery	87	52-108% Recovery
L10453-003	36163	86	61-113% Recovery	79	52-108% Recovery

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DIESEL RANGE ORGANICS (DRO)
QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Sparta, Wisconsin

Date Sampled: 3/29/95
Date Received: 3/31/95
Date Extracted: 4/05/95
Date Analyzed: 4/05/95
Analyst: CMK

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria.

Method Blank Results

All associated method blanks were below method detection limits.

Water Spike/Water Spike Duplicate Results

Compound	Batch Number	Water Spike Recovery (%)	Water Spike Dup. Recovery (%)	RPD (%)	Control Limits
DRO	36017	101.4	94.4	7.18	80-120% recovery, 20% RPD

Soil Spike Results

Compound	Batch Number	Soil Spike Recovery (%)	Control Limits
DRO	36017	83.5	60-130% recovery

4286.0220

MONTGOMERY WATSON

CHAIN OF CUSTODY RECORD

ROBERT E. LEE

SPECIAL INSTRUCTIONS:
- [x] RECFA
- [ ] WI LUST
- [ ] ACT 307
- [x] REPORT DRY WT
- [ ] OTHER:

TURNAROUND
- [x] 2 WEEKS (standard)
- [ ] 1 WEEK
- [ ] 3 DAYS
- [ ] 1 DAY

PROJECT NAME: NESS SERVICE CENTER | PROJECT #: 2390002

CITY: GreenBay | STATE: WI

SAMPLER(S): GLENN WILLEMS

COLLECTION DATE	COLLECTION TIME	GRAB / COMP	SAMPLE ID	NO. OF CONTAINERS	GRO	DRO	PVOC	LEAD	PAH	TS		REMARKS	LAB USE ONLY MATRIX	LAB USE ONLY LAB NO.
3/29/95	12:15	GRAB	HB1 (5'-6')	8	2	2	2	1	1			Field Screening Results <1 ppm	SOIL	10453-01
	12:30		HB2 (4'-5')	8								<1 ppm		02
	1:00		HB3 (4.5'-5')	8								2548 ppm		03
	2:30		METHANOL TRIP BLANK	1	1									04

SPECIAL INSTRUCTIONS:

RECEIVED: [x] INTACT [x] ON ICE TEMP _____ °F

PROJ. MGR.: JOE J. PASQUALUCCI

SUBMIT RESULTS TO CHARLENE STINSON

	SIGNATURE	PRINT NAME	COMPANY / TITLE	DATE	TIME
RELINQUISHED BY:	Glenn Willems	GLENN WILLEMS	ROBERT E. LEE & ASSOCIATES, INC.	3/29/95	4:15
RECEIVED BY:	Bud Hansen #650				
RELINQUISHED BY:					
RECEIVED BY:	Randy Meinhuiz	RANDY MEINHUIZ	N. W. Lube Lucy Dr	3-31-95	8:50

C-O-C No. 011847

NAME OF COURIER: Delivered

AIRBILL NUMBER: _____

MONTGOMERY WATSON
Analytical Testing Services

June 7, 1995

Ms. Charlene T. Stinson
Robert E. Lee & Associates, Inc.
Engineering, Surveying, Laboratory Services
2825 South Webster Avenue
P.O. Box 2100
Green Bay, Wisconsin 54306-2100

Re: Ness Service Center/2390-002

Dear Ms. Stinson:

Enclosed are the analytical results and chain-of-custody for the samples collected May 9 & 11, 1995 and received May 12, 1995. Our lab certification number is 113138300. Also enclosed is a copy of our Invoice No. ML378. The original has been sent to Ness Service Center.

Please feel free to call if you have any questions.

Sincerely,

MONTGOMERY WATSON
Analytical Testing Services

Dennis J. Linley
Lab Services Coordinator

Enclosures: As stated

cc: D. Linley
K. Killian

SMT/dsk/GLG
G:\DMGMT\LETTERS\42860220.DOC
L10714

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STANDARD REPORT FOOTNOTES

A1 Elevated quantitation limit due to low sample volume.

A2 Elevated quantitation limit necessary to overcome interference.

A4 Result should be considered estimated due to sample-related problems encountered during analysis.

A11 Sample received past recommended hold time.

A12 Analysis requested past recommended hold time.

A13 Initial analysis performed within hold time; confirmation analysis performed past recommended hold time. Results from repeat analysis are reported.

A14 Initial analysis performed within hold time; necessary dilution performed past recommended hold time. Results from repeat analysis are reported.

A15 Result should be considered estimated; analyte detected in method blank.

A17 Result should be considered estimated as indicated by method QC.

M3 Total analysis performed due to insufficient solid for TCLP extraction.

G1 Result should be considered estimated, concentration exceeds working calibration range.

G2 Elevated quantitation limit due to the concentration of petroleum hydrocarbons in the sample.

G3 Elevated quantitation limit due to the concentration of non-specific hydrocarbons in the sample.

G4 Analyte coelutes with _____; result calculated from calibration standards in a 1:1 ratio of these two compounds.

G5 Sample required extensive cleanup; Endrin Aldehyde is not recovered from these techniques.

G6 Petroleum-type odor detected from this sample.

G7 Elevated quantitation limit due to the concentration of PCBs in the sample.

G8 Result should be considered estimated due to coelution with an additional hydrocarbon product.

G9 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products.

G10 Presence of one or more unidentified peaks eluting earlier than the retention time window.

G11 Presence of one or more unidentified peaks eluting later than the retention time window.

G12 Result is estimated. The method used is a screening procedure for this compound.

G13 Measurement performed using test strips.

G15 n-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from Diphenylamine.

G16 Measurement upon receipt performed using test strips. Adjusted to pH <2.

G17 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products. Final results pending GC/MS confirmation.

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METHOD REFERENCES

	Soil/Groundwater				Wastewater			
Analytes	ICP	Flame	Furnace	CV	ICP	Flame	Furnace	CV
Aluminium	6010	7020	-	-	200.7	202.1	-	-
Antimony	6010	7040	7041	-	200.7	-	204.2	-
Arsenic	6010	-	7060	-	200.7	-	206.2	-
Barium	6010	7080	7081	-	200.7	208.1	208.2	-
Beryllium	6010	7090	7091	-	200.7	210.1	210.2	-
Boron	6010	-	-	-	200.7	-	-	-
Cadmium	6010	7130	7131	-	200.7	213.1	213.2	-
Calcium	6010	7140		-	200.7	215.1	-	-
Chromium, Total	6010	7190	7191	-	200.7	218.1	218.2	-
Cobalt	6010	7200	-	-	200.7	219.1	-	-
Copper	6010	7210	-	-	200.7	220.1	-	-
Iron	6010	7380	-	-	200.7	236.1	-	-
Lead	6010	7420	7421	-	200.7	239.1	239.2	-
Magnesium	6010	7450	-	-	200.7	242.1	-	-
Manganese	6010	7460	-	-	200.7	243.1	-	-
Mercury	-	-	-	7470/7471				245.1
Molybdenum	6010	7480	-	-	200.7	246.1	-	-
Nickel	6010	7520	-	-	200.7	249.1	-	-
Potassium	-	SM3500D	-	-	-	SM3500D	-	-
Selenium	6010	-	7740	-	200.7	-	270.2	-
Silver	6010	7760	7761	-	200.7	272.1	272.2	-
Sodium	6010	SM3500D	-	-	200.7	SM3500D	-	-
Strontium	6010	-	-	-	200.7	-	-	-
Thallium	6010	7840	7841	-	200.7	279.1	279.2	-
Tin	6010	-	-	-	200.7	-	-	-
Titanium	6010	-	-	-	200.7	-	-	-
Vanadium	6010	7910	7911	-	200.7	286.1	286.2	-
Zinc	6010	7950	-	-	200.7	289.1	-	-

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

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METHOD REFERENCES

Compounds	Soil/Groundwater	Wastewater
Alcohol	8015*	8015*
BEXT	8020***	602
DRO	Modified DRO	Modified DRO
GRO	Modified GRO***	Modified GRO
Herbicides	8150	8150
Pesticides	8080	608
Pesticide/PCBs	8080	608
PCBs	8080**	608
PCBs	8080****	608
PCP Screen	8040****	8040****
PNA (GC/MS)	8270	8270
PNA (HPLC)	8310	8310
PVOCs	8020***	8020
SVOCs	8270	8270
TPH	D-3328-78*	D-3328-78*
TRPH	418.1 & 9073	418.1 & 9073
VOCs	8021	8021
VOCs	8010/8020***	601/602
Solids, Total	160.3	160.3

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Organic Chemical Analysis of Water and Wastes", March, 1984.

ASTM, "Annual Book of ASTM Standards", 1990.

Wisconsin DNR Modified 9073 TRPH, PUBL-SW-140, Wisconsin DNR, April 1992.

Wisconsin DNR Modified DRO, PUBL-SW-141, Wisconsin DNR, July 1993.

Wisconsin DNR Modified GRO, PUBL-SW-140, Wisconsin DNR, July 1993.

* With Modifications
** With Modfications for Oil Matrix
*** With Modfications for Soil Gas Matrix
**** With Modifications for Wipe Matrix

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INORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #: L10714-001
Description: B-4 2-4
Sample Date: 09-MAY-95
Receipt Date: 12-MAY-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	2.49	1	0.15	Solid	mg/kg	HJM	23-MAY-95	A15
Solids, Total	83.8	1	0.5	Solid	%	WRM	15-MAY-95	

Sample #: L10714-002
Description: B-3 6-8
Sample Date: 09-MAY-95
Receipt Date: 12-MAY-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	3.22	1	0.15	Solid	mg/kg	HJM	17-MAY-95	
Solids, Total	88.6	1	0.5	Solid	%	WRM	15-MAY-95	

Sample #: L10714-003
Description: B-2 6-8
Sample Date: 09-MAY-95
Receipt Date: 12-MAY-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	3.51	1	0.15	Solid	mg/kg	HJM	17-MAY-95	
Solids, Total	88.5	1	0.5	Solid	%	WRM	15-MAY-95	

Note: Results in mg/kg are reported on a dry weight basis.

MDL = Method Detection Limit
WI Lab Certification ID#: 113138300

Chk'd: [illegible] App'd: [illegible]
Date App'd: 6-7-95

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INORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #: L10714-004
Description: B-5 4-6
Sample Date: 11-MAY-95
Receipt Date: 12-MAY-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	3.74	1	0.15	Solid	mg/kg	HJM	17-MAY-95	
Solids, Total	86.8	1	0.5	Solid	%	WRM	15-MAY-95	

Sample #: L10714-005
Description: HA-6 4-5
Sample Date: 11-MAY-95
Receipt Date: 12-MAY-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	2.60	1	0.15	Solid	mg/kg	HJM	17-MAY-95	
Solids, Total	84.6	1	0.5	Solid	%	WRM	15-MAY-95	

Sample #: L10714-006
Description: B-7 4-6
Sample Date: 11-MAY-95
Receipt Date: 12-MAY-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	3.35	1	0.15	Solid	mg/kg	HJM	17-MAY-95	
Solids, Total	84.0	1	0.5	Solid	%	WRM	15-MAY-95	

Note: Results in mg/kg are reported on a dry weight basis.

MDL = Method Detection Limit
WI Lab Certification ID#: 113138300

Chk'd: DBK App'd: CAW
Date App'd: 6-7-95

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INORGANIC REPORT
INORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #: L10714-007
Description: HA-8 4-6
Sample Date: 11-MAY-95
Receipt Date: 12-MAY-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	2.25	1	0.15	Solid	mg/kg	HJM	17-MAY-95	
Solids, Total	84.7	1	0.5	Solid	%	WRM	15-MAY-95	

MDL = Method Detection Limit
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Chk'd: RSC App'd: CAW
Date App'd: 6/12/95

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L10714-001	Benzene	25	60	320	1	NR	ug/kg	
Solid	Bromobenzene	25	60	< 25	1	NR	ug/kg	
B-4 2-4	Bromodichloromethane	25	60	< 25	1	NR	ug/kg	A17
	n-Butylbenzene	25	60	27 J	1	NR	ug/kg	
	sec-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	tert-Butylbenzene	25	60	41 J	1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25	1	NR	ug/kg	
	Chlorobenzene	25	60	< 25	1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25	1	NR	ug/kg	
	Chloroethane	25	60	< 1000	1	NR	ug/kg	A2
	Chloroform	25	60	< 25	1	NR	ug/kg	A17
	Chloromethane	25	60	< 1000	1	NR	ug/kg	A2
	2-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 1000	1	NR	ug/kg	A2
	1,1-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25	1	NR	ug/kg	
	Ethylbenzene	25	60	< 25	1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: DSK App'd: CAO
Date App'd: 6.19.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result		Dil	Confirmation	Units	Footnotes ****
10714-001	Hexachlorobutadiene	25	60	< 25		1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	26	J	1	NR	ug/kg	
-4 2-4	p-Isopropyltoluene	25	60	< 25		1	NR	ug/kg	
	Methylene chloride	25	60	< 25		1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25		1	NR	ug/kg	
	Naphthalene	25	60	40	J	1	NR	ug/kg	
	n-Propylbenzene	25	60	< 25		1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25		1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25		1	NR	ug/kg	
	Toluene	25	60	< 25		1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25		1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25		1	NR	ug/kg	
	Trichloroethene	25	60	< 25		1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 1000		1	NR	ug/kg	A2
	1,2,4-Trimethylbenzene	25	60	< 25		1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	< 25		1	NR	ug/kg	
	Vinyl chloride	25	60	< 25		1	NR	ug/kg	
	o-Xylene	25	60	34	J	1	NR	ug/kg	
	m + p-Xylene	50	120	< 50		1	NR	ug/kg	

Sample Date : 09-MAY-95
Receipt Date : 12-MAY-95
Analysis Date : 16-MAY-95
Confirmation Date : None
Analyst : LH

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

WI Lab Certification ID#: 113138300

Chk'd: RSK App'd: CAR
Date App'd: 6/1/95

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L10714-002	Benzene	25	60	400	1	NR	ug/kg	
Solid	Bromobenzene	25	60	< 25	1	NR	ug/kg	
B-3 6-8	Bromodichloromethane	25	60	< 25	1	NR	ug/kg	A17
	n-Butylbenzene	25	60	570	1	NR	ug/kg	
	sec-Butylbenzene	25	60	81	1	NR	ug/kg	
	tert-Butylbenzene	25	60	44 J	1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25	1	NR	ug/kg	
	Chlorobenzene	25	60	< 25	1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25	1	NR	ug/kg	
	Chloroethane	25	60	< 1000	1	NR	ug/kg	A2
	Chloroform	25	60	< 25	1	NR	ug/kg	A17
	Chloromethane	25	60	< 1000	1	NR	ug/kg	A2
	2-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 1000	1	NR	ug/kg	A2
	1,1-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25	1	NR	ug/kg	
	Ethylbenzene	25	60	1800	5	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: [illegible] App'd: CAW
Date App'd: 6.7.95

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
10714-002	Hexachlorobutadiene	25	60	< 25	1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	270	1	NR	ug/kg	
-3 6-8	p-Isopropyltoluene	25	60	78	1	NR	ug/kg	A17
	Methylene chloride	25	60	< 25	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25	1	NR	ug/kg	
	Naphthalene	25	60	450	1	NR	ug/kg	
	n-Propylbenzene	25	60	31 J	1	NR	ug/kg	A17
	1,1,2,2-Tetrachloroethane	25	60	< 25	1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25	1	NR	ug/kg	
	Toluene	25	60	100	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	Trichloroethene	25	60	< 25	1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 1000	1	NR	ug/kg	A2
	1,2,4-Trimethylbenzene	25	60	3000	5	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	610	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25	1	NR	ug/kg	
	o-Xylene	25	60	100	1	NR	ug/kg	
	m + p-Xylene	50	120	2400	5	NR	ug/kg	

Sample Date : 09-MAY-95
Receipt Date : 12-MAY-95
Analysis Date : 16, 17-MAY-95
Confirmation Date : None
Analyst : LH

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
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NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: DSK App'd: CMD
Date App'd: 6.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L10714-003	Benzene	25	60	340	1	NR	ug/kg	
Solid	Bromobenzene	25	60	< 25	1	NR	ug/kg	
B-2 6-8	Bromodichloromethane	25	60	< 25	1	NR	ug/kg	A17
	n-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	sec-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	tert-Butylbenzene	25	60	39 J	1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25	1	NR	ug/kg	
	Chlorobenzene	25	60	< 25	1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25	1	NR	ug/kg	
	Chloroethane	25	60	< 1000	1	NR	ug/kg	A2
	Chloroform	25	60	< 25	1	NR	ug/kg	A17
	Chloromethane	25	60	< 1000	1	NR	ug/kg	A2
	2-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 1000	1	NR	ug/kg	A2
	1,1-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25	1	NR	ug/kg	
	Ethylbenzene	25	60	< 25	1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
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LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: B&K App'd: CAW
Date App'd: 6.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L10714-003	Hexachlorobutadiene	25	60	< 25	1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	27 J	1	NR	ug/kg	
B-2 6-8	p-Isopropyltoluene	25	60	< 25	1	NR	ug/kg	
	Methylene chloride	25	60	< 25	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25	1	NR	ug/kg	
	Naphthalene	25	60	32 J	1	NR	ug/kg	
	n-Propylbenzene	25	60	< 25	1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25	1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25	1	NR	ug/kg	
	Toluene	25	60	< 25	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	Trichloroethene	25	60	< 25	1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 1000	1	NR	ug/kg	A2
	1,2,4-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	45 J	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25	1	NR	ug/kg	
	o-Xylene	25	60	< 25	1	NR	ug/kg	
	m + p-Xylene	50	120	< 50	1	NR	ug/kg	

Sample Date : 09-MAY-95
Receipt Date : 12-MAY-95
Analysis Date : 16-MAY-95
Confirmation Date : None
Analyst : LH

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: RSK App'd: CAW
Date App'd: 6-7-95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L10714-004	Benzene	25	60	330	1	NR	ug/kg	
Solid	Bromobenzene	25	60	< 25	1	NR	ug/kg	
B-5 4-6	Bromodichloromethane	25	60	< 25	1	NR	ug/kg	A17
	n-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	sec-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	tert-Butylbenzene	25	60	36 J	1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25	1	NR	ug/kg	
	Chlorobenzene	25	60	< 25	1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25	1	NR	ug/kg	
	Chloroethane	25	60	< 1000	1	NR	ug/kg	A2
	Chloroform	25	60	< 25	1	NR	ug/kg	A17
	Chloromethane	25	60	< 1000	1	NR	ug/kg	A2
	2-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 1000	1	NR	ug/kg	A2
	1,1-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	Di-isopropyl ether	25	60	29 J	1	NR	ug/kg	
	Ethylbenzene	25	60	< 25	1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: DSK App'd: CHW
Date App'd: 6.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
-10714-004	Hexachlorobutadiene	25	60	< 25	1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	< 25	1	NR	ug/kg	
[redacted]-5 4-6	p-Isopropyltoluene	25	60	25 J	1	NR	ug/kg	A17
	Methylene chloride	25	60	< 25	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25	1	NR	ug/kg	
	Naphthalene	25	60	< 25	1	NR	ug/kg	
	n-Propylbenzene	25	60	< 25	1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25	1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25	1	NR	ug/kg	
	Toluene	25	60	< 25	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	Trichloroethene	25	60	< 25	1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 1000	1	NR	ug/kg	A2
	1,2,4-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25	1	NR	ug/kg	
	o-Xylene	25	60	31 J	1	NR	ug/kg	
	m + p-Xylene	50	120	< 50	1	NR	ug/kg	

Sample Date : 11-MAY-95
Receipt Date : 12-MAY-95
Analysis Date : 16-MAY-95
Confirmation Date : None
Analyst : LH

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: DSK App'd: CAW
Date App'd: 6.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result		Dil	Confirmation	Units	Footnotes ****
L10714-005	Benzene	25	60	290		1	NR	ug/kg	A15
Solid	Bromobenzene	25	60	< 25		1	NR	ug/kg	
HA-6 4-5	Bromodichloromethane	25	60	44	J	1	NR	ug/kg	A15, A17
	n-Butylbenzene	25	60	81		1	NR	ug/kg	A17
	sec-Butylbenzene	25	60	< 25		1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25		1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25		1	NR	ug/kg	
	Chlorobenzene	25	60	< 25		1	NR	ug/kg	
	Chlorodibromomethane	25	60	40	J	1	NR	ug/kg	A15, A17
	Chloroethane	25	60	< 1000		1	NR	ug/kg	A2
	Chloroform	25	60	45	J	1	NR	ug/kg	A17
	Chloromethane	25	60	< 1000		1	NR	ug/kg	A2
	2-Chlorotoluene	25	60	< 25		1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25		1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25		1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25		1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 1000		1	NR	ug/kg	A2
	1,1-Dichloroethane	25	60	< 25		1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25		1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25		1	NR	ug/kg	
	Ethylbenzene	25	60	< 25		1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: DMC App'd: CAW
Date App'd: 6.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L10714-005	Hexachlorobutadiene	25	60	< 25	1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	< 25	1	NR	ug/kg	
A-6 4-5	p-Isopropyltoluene	25	60	< 25	1	NR	ug/kg	
	Methylene chloride	25	60	< 25	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25	1	NR	ug/kg	
	Naphthalene	25	60	76	1	NR	ug/kg	A15, A17
	n-Propylbenzene	25	60	< 25	1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25	1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25	1	NR	ug/kg	
	Toluene	25	60	59 J	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	Trichloroethene	25	60	< 25	1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25	1	NR	ug/kg	
	o-Xylene	25	60	< 25	1	NR	ug/kg	
	m + p-Xylene	50	120	< 50	1	NR	ug/kg	

Sample Date : 11-MAY-95
Receipt Date : 12-MAY-95
Analysis Date : 17-MAY-95
Confirmation Date : None
Analyst : LH

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

WI Lab Certification ID#: 113138300

Chk'd: RSK App'd: CAD
Date App'd: 6-7-95

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result		Dil	Confirmation	Units	Footnotes ****
L10714-006	Benzene	25	60	310		1	NR	ug/kg	A15
Solid	Bromobenzene	25	60	< 25		1	NR	ug/kg	
B-7 4-6	Bromodichloromethane	25	60	45	J	1	NR	ug/kg	A15, A17
	n-Butylbenzene	25	60	28	J	1	NR	ug/kg	A17
	sec-Butylbenzene	25	60	< 25		1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25		1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25		1	NR	ug/kg	
	Chlorobenzene	25	60	< 25		1	NR	ug/kg	
	Chlorodibromomethane	25	60	43	J	1	NR	ug/kg	A15, A17
	Chloroethane	25	60	< 1000		1	NR	ug/kg	A2
	Chloroform	25	60	43	J	1	NR	ug/kg	A17
	Chloromethane	25	60	< 1000		1	NR	ug/kg	A2
	2-Chlorotoluene	25	60	< 25		1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25		1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25		1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25		1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 1000		1	NR	ug/kg	A2
	1,1-Dichloroethane	25	60	< 25		1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25		1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25		1	NR	ug/kg	
	Ethylbenzene	25	60	< 25		1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes:
NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: DSM App'd: CAW
Date App'd: 6-7-95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result		Dil	Confirmation	Units	Footnotes ****
L10714-006	Hexachlorobutadiene	25	60	< 25		1	NR	ug/kg	
solid	Isopropylbenzene	25	60	< 25		1	NR	ug/kg	
5-7 4-6	p-Isopropyltoluene	25	60	< 25		1	NR	ug/kg	
	Methylene chloride	25	60	52	J	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25		1	NR	ug/kg	
	Naphthalene	25	60	49	J	1	NR	ug/kg	A15, A17
	n-Propylbenzene	25	60	56	J	1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25		1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25		1	NR	ug/kg	
	Toluene	25	60	66		1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	47	J	1	NR	ug/kg	A17
	1,1,2-Trichloroethane	25	60	< 25		1	NR	ug/kg	
	Trichloroethene	25	60	< 25		1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 25		1	NR	ug/kg	
	1,2,4-Trimethylbenzene	25	60	52	J	1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	30	J	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25		1	NR	ug/kg	
	o-Xylene	25	60	< 25		1	NR	ug/kg	
	m + p-Xylene	50	120	< 50		1	NR	ug/kg	

Sample Date : 11-MAY-95
Receipt Date : 12-MAY-95
Analysis Date : 17-MAY-95
Confirmation Date : None
Analyst : LH

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: BSC App'd: CAW
Date App'd: 6-1-95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result		Dil	Confirmation	Units	Footnotes ****
L10714-007	Benzene	25	60	390		1	NR	ug/kg	A15
Solid	Bromobenzene	25	60	< 25		1	NR	ug/kg	
HA-8 4-6	Bromodichloromethane	25	60	44	J	1	NR	ug/kg	A15, A17
	n-Butylbenzene	25	60	920		1	NR	ug/kg	A17
	sec-Butylbenzene	25	60	84		1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25		1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25		1	NR	ug/kg	
	Chlorobenzene	25	60	< 25		1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25		1	NR	ug/kg	
	Chloroethane	25	60	< 25		1	NR	ug/kg	
	Chloroform	25	60	44	J	1	NR	ug/kg	A17
	Chloromethane	25	60	< 1000		1	NR	ug/kg	A2
	2-Chlorotoluene	25	60	< 25		1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25		1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25		1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25		1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 1000		1	NR	ug/kg	A2
	1,1-Dichloroethane	25	60	< 25		1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25		1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25		1	NR	ug/kg	
	Ethylbenzene	25	60	360		1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
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J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: [illegible] App'd: GAW
Date App'd: 6/12/95 release

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result		Dil	Confirmation	Units	Footnotes ****
L10714-007	Hexachlorobutadiene	25	60	< 25		1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	110		1	NR	ug/kg	
SA-8 4-6	p-Isopropyltoluene	25	60	42	J	1	NR	ug/kg	
	Methylene chloride	25	60	< 25		1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25		1	NR	ug/kg	
	Naphthalene	25	60	260		1	NR	ug/kg	A15, A17
	n-Propylbenzene	25	60	370		1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25		1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25		1	NR	ug/kg	
	Toluene	25	60	89		1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25		1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25		1	NR	ug/kg	
	Trichloroethene	25	60	< 25		1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 25		1	NR	ug/kg	
	1,2,4-Trimethylbenzene	25	60	1800		5	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	560		1	NR	ug/kg	
	Vinyl chloride	25	60	< 25		1	NR	ug/kg	
	o-Xylene	25	60	220		1	NR	ug/kg	
	m + p-Xylene	50	120	960		1	NR	ug/kg	

Sample Date : 11-MAY-95
Receipt Date : 12-MAY-95
Analysis Date : 17-MAY-95
Confirmation Date : None
Analyst : LH

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: BSK App'd: CAM
Date App'd: 6/12/95 revised

WI Lab Certification ID#: 113138300

MONTGOMERY WATSON
Analytical Testing Services

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result		Dil	Confirmation	Units	Footnotes ****
L10714-008	Benzene	25	60	300		1	NR	ug/kg	A15
Solid	Bromobenzene	25	60	< 25		1	NR	ug/kg	
TRIP BLANK	Bromodichloromethane	25	60	39	J	1	NR	ug/kg	A15, A17
	n-Butylbenzene	25	60	< 25		1	NR	ug/kg	
	sec-Butylbenzene	25	60	< 25		1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25		1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25		1	NR	ug/kg	
	Chlorobenzene	25	60	< 25		1	NR	ug/kg	
	Chlorodibromomethane	25	60	37	J	1	NR	ug/kg	A15, A17
	Chloroethane	25	60	< 25		1	NR	ug/kg	
	Chloroform	25	60	39	J	1	NR	ug/kg	A17
	Chloromethane	25	60	< 1000		1	NR	ug/kg	A2
	2-Chlorotoluene	25	60	< 25		1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25		1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25		1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25		1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 1000		1	NR	ug/kg	A2
	1,1-Dichloroethane	25	60	< 25		1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25		1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25		1	NR	ug/kg	
	Ethylbenzene	25	60	27	J	1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: DSC App'd: CAW
Date App'd: 6.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result		Dil	Confirmation	Units	Footnotes ****
L10714-008	Hexachlorobutadiene	25	60	< 25		1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	< 25		1	NR	ug/kg	
TRIP BLANK	p-Isopropyltoluene	25	60	< 25		1	NR	ug/kg	
	Methylene chloride	25	60	44	J	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25		1	NR	ug/kg	
	Naphthalene	25	60	30	J	1	NR	ug/kg	A15, A17
	n-Propylbenzene	25	60	< 25		1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25		1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25		1	NR	ug/kg	
	Toluene	25	60	59	J	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25		1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25		1	NR	ug/kg	
	Trichloroethene	25	60	< 25		1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 25		1	NR	ug/kg	
	1,2,4-Trimethylbenzene	25	60	< 25		1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	< 25		1	NR	ug/kg	
	Vinyl chloride	25	60	< 25		1	NR	ug/kg	
	o-Xylene	25	60	< 25		1	NR	ug/kg	
	m + p-Xylene	50	120	< 50		1	NR	ug/kg	

Sample Date : 09-MAY-95
Receipt Date : 12-MAY-95
Analysis Date : 17-MAY-95
Confirmation Date : None
Analyst : LH

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: DSM App'd: CAW
Date App'd: 6.9.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result		Dil	Confirmation	Units	Footnotes ****
L10714-009	Benzene	25	60	310		1	NR	ug/kg	A15
Solid	Bromobenzene	25	60	< 25		1	NR	ug/kg	
TRIP BLANK	Bromodichloromethane	25	60	38	J	1	NR	ug/kg	A15, A17
	n-Butylbenzene	25	60	< 25		1	NR	ug/kg	
	sec-Butylbenzene	25	60	< 25		1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25		1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25		1	NR	ug/kg	
	Chlorobenzene	25	60	< 25		1	NR	ug/kg	
	Chlorodibromomethane	25	60	36	J	1	NR	ug/kg	A15, A17
	Chloroethane	25	60	< 1000		1	NR	ug/kg	A2
	Chloroform	25	60	37	J	1	NR	ug/kg	A17
	Chloromethane	25	60	< 1000		1	NR	ug/kg	A2
	2-Chlorotoluene	25	60	< 25		1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25		1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25		1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25		1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25		1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 1000		1	NR	ug/kg	A2
	1,1-Dichloroethane	25	60	< 25		1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25		1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25		1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25		1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25		1	NR	ug/kg	
	Ethylbenzene	25	60	< 25		1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: RSK App'd: CMW
Date App'd: 6.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result		Dil	Confirmation	Units	Footnotes ****
10714-009	Hexachlorobutadiene	25	60	< 25		1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	< 25		1	NR	ug/kg	
TRIP BLANK	p-Isopropyltoluene	25	60	< 25		1	NR	ug/kg	
	Methylene chloride	25	60	43	J	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25		1	NR	ug/kg	
	Naphthalene	25	60	27	J	1	NR	ug/kg	A15, A17
	n-Propylbenzene	25	60	< 25		1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25		1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25		1	NR	ug/kg	
	Toluene	25	60	57	J	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25		1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25		1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25		1	NR	ug/kg	
	Trichloroethene	25	60	< 25		1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 1000		1	NR	ug/kg	A2
	1,2,4-Trimethylbenzene	25	60	< 25		1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	< 25		1	NR	ug/kg	
	Vinyl chloride	25	60	< 25		1	NR	ug/kg	
	o-Xylene	25	60	< 25		1	NR	ug/kg	
	m + p-Xylene	50	120	< 50		1	NR	ug/kg	

Sample Date : 11-MAY-95
Receipt Date : 12-MAY-95
Analysis Date : 17-MAY-95
Confirmation Date : None
Analyst : LH

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

WI Lab Certification ID#: 113138300

Chk'd: RSM App'd: CAW
Date App'd: 6-1-95

MONTGOMERY WATSON
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GASOLINE RANGE ORGANICS (GRO)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Test	Result	Method Detection Limit	Matrix	Units	Petroleum Odor	Footnotes
L10714-001	B-4 2-4	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 09-MAY-95						
		Receipt Date: 12-MAY-95						
		Analysis Date: 18-MAY-95						
		Analyst: AJK						
		Dilution: 1						
L10714-002	B-3 6-8	Gasoline Range Organics	26	10	Solid	mg/kg	None	
		Sample Date: 09-MAY-95						
		Receipt Date: 12-MAY-95						
		Analysis Date: 18-MAY-95						
		Analyst: AJK						
		Dilution: 1						
L10714-003	B-2 6-8	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 09-MAY-95						
		Receipt Date: 12-MAY-95						
		Analysis Date: 18-MAY-95						
		Analyst: AJK						
		Dilution: 1						
L10714-004	B-5 4-6	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 11-MAY-95						
		Receipt Date: 12-MAY-95						
		Analysis Date: 18-MAY-95						
		Analyst: AJK						
		Dilution: 1						

Note: Results in mg/kg are reported on a dry weight basis.

Chk'd: DJK App'd: CAW
Date App'd: 6-7-95

WI Lab Certification ID#: 113138300

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GASOLINE RANGE ORGANICS (GRO)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Test	Result	Method Detection Limit	Matrix	Units	Petroleum Odor	Footnotes
L10714-005	HA-6 4-5	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 11-MAY-95						
		Receipt Date: 12-MAY-95						
		Analysis Date: 18-MAY-95						
		Analyst: AJK						
		Dilution: 1						
L10714-006	B-7 4-6	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 11-MAY-95						
		Receipt Date: 12-MAY-95						
		Analysis Date: 18-MAY-95						
		Analyst: AJK						
		Dilution: 1						
L10714-007	HA-8 4-6	Gasoline Range Organics	12	10	Solid	mg/kg	None	
		Sample Date: 11-MAY-95						
		Receipt Date: 12-MAY-95						
		Analysis Date: 18-MAY-95						
		Analyst: AJK						
		Dilution: 1						
L10714-008	TRIP BLANK	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 09-MAY-95						
		Receipt Date: 12-MAY-95						
		Analysis Date: 18-MAY-95						
		Analyst: AJK						
		Dilution: 1						

Note: Results in mg/kg are reported on a dry weight basis.

Chk'd: BSK App'd: CAW
Date App'd: 6/12/95 reissue

Lab Certification ID#: 113138300

MONTGOMERY WATSON
Analytical Testing Services

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GASOLINE RANGE ORGANICS (GRO)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Test	Result	Method Detection Limit	Matrix	Units	Petroleum Odor	Footnotes
L10714-009	TRIP BLANK	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	

Sample Date: 11-MAY-95
Receipt Date: 12-MAY-95
Analysis Date: 19-MAY-95
Analyst: AJK
Dilution: 1

Note: Results in mg/kg are reported on a dry weight basis.

Chk'd: DSK App'd: CAW
Date App'd: 6.1.95

WI Lab Certification ID#: 113138300

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PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Dil	MDL	Matrix	Units	Footnotes
0714-001	B-4 2-4	Naphthalene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	1	0.33	Solid	mg/kg	
		Fluorene	< 0.066	1	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	1	0.033	Solid	mg/kg	
		Anthracene	< 0.033	1	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	1	0.066	Solid	mg/kg	
		Pyrene	< 0.033	1	0.033	Solid	mg/kg	
		Chrysene	< 0.033	1	0.033	Solid	mg/kg	
		Benzo(a)anthracene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	< 0.0059	1	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	1	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	< 0.0066	1	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	

Sample Date: 09-MAY-95
Receipt Date: 12-MAY-95
Extract Date: 13-MAY-95
Analysis Date: 15-MAY-95
Analyst: CMK

Note: Results in mg/kg are reported on a dry weight basis.

Dil = Dilution
MDL = Method detection Limit
WI Lab Certification ID#: 113138300

Chk'd: [illegible] App'd: CAC
Date App'd: 6-19-95

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PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Dil	MDL	Matrix	Units	Footnotes
L10714-002	B-3 6-8	Naphthalene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	1	0.33	Solid	mg/kg	
		Fluorene	< 0.066	1	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	1	0.033	Solid	mg/kg	
		Anthracene	< 0.033	1	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	1	0.066	Solid	mg/kg	
		Pyrene	< 0.033	1	0.033	Solid	mg/kg	
		Chrysene	< 0.033	1	0.033	Solid	mg/kg	
		Benzo(a)anthracene	0.0039	1	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	< 0.0059	1	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	1	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	< 0.0066	1	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	
		2-Methylnaphthalene	0.37	1	0.33	Solid	mg/kg	

Sample Date: 09-MAY-95
Receipt Date: 12-MAY-95
Extract Date: 13-MAY-95
Analysis Date: 15-MAY-95
Analyst: CMK

Note: Results in mg/kg are reported on a dry weight basis.

Dil = Dilution
MDL = Method detection Limit
WI Lab Certification ID#: 113138300

Chk'd: DSK App'd: CAW
Date App'd: 6.9.95

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PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Dil	MDL	Matrix	Units	Footnotes
10714-003	B-2 6-8	Naphthalene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	1	0.33	Solid	mg/kg	
		Fluorene	< 0.066	1	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	1	0.033	Solid	mg/kg	
		Anthracene	< 0.033	1	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	1	0.066	Solid	mg/kg	
		Pyrene	< 0.033	1	0.033	Solid	mg/kg	
		Chrysene	< 0.033	1	0.033	Solid	mg/kg	
		Benzo(a)anthracene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	< 0.0059	1	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	1	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	0.0087	1	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	

Sample Date: 09-MAY-95
Receipt Date: 12-MAY-95
Extract Date: 13-MAY-95
Analysis Date: 15-MAY-95
Analyst: CMK

Note: Results in mg/kg are reported on a dry weight basis.

Dil = Dilution
MDL = Method detection Limit
WI Lab Certification ID#: 113138300

Chk'd: RSM App'd: CMK
Date App'd: 6.1.95

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PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Dil	MDL	Matrix	Units	Footnotes
L10714-004	B-5 4-6	Naphthalene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	1	0.33	Solid	mg/kg	
		Fluorene	< 0.066	1	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	1	0.033	Solid	mg/kg	
		Anthracene	< 0.033	1	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	1	0.066	Solid	mg/kg	
		Pyrene	< 0.033	1	0.033	Solid	mg/kg	
		Chrysene	< 0.033	1	0.033	Solid	mg/kg	
		Benzo(a)anthracene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	< 0.0059	1	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	1	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	< 0.0066	1	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	

Sample Date: 11-MAY-95
Receipt Date: 12-MAY-95
Extract Date: 13-MAY-95
Analysis Date: 15-MAY-95
Analyst: CMK

Note: Results in mg/kg are reported on a dry weight basis.

Dil = Dilution
MDL = Method detection Limit
WI Lab Certification ID#: 113138300

Chk'd: DJK App'd: CAQ
Date App'd: 6.7.95

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PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Dil	MDL	Matrix	Units	Footnotes
[redacted]10714-005	HA-6 4-5	Naphthalene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	1	0.33	Solid	mg/kg	
		Fluorene	< 0.066	1	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	1	0.033	Solid	mg/kg	
		Anthracene	< 0.033	1	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	1	0.066	Solid	mg/kg	
		Pyrene	< 0.033	1	0.033	Solid	mg/kg	
		Chrysene	< 0.033	1	0.033	Solid	mg/kg	
		Benzo(a)anthracene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	< 0.0059	1	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	1	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	< 0.0066	1	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	

Sample Date: 11-MAY-95
Receipt Date: 12-MAY-95
Extract Date: 13-MAY-95
Analysis Date: 15-MAY-95
Analyst: CMK

Note: Results in mg/kg are reported on a dry weight basis.

Dil = Dilution
MDL = Method detection Limit
WI Lab Certification ID#: 113138300

Chk'd: [illegible] App'd: [illegible]
Date App'd: 6.7.95

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PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Dil	MDL	Matrix	Units	Footnotes
L10714-006	B-7 4-6	Naphthalene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	1	0.33	Solid	mg/kg	
		Fluorene	< 0.066	1	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	1	0.033	Solid	mg/kg	
		Anthracene	< 0.033	1	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	1	0.066	Solid	mg/kg	
		Pyrene	< 0.033	1	0.033	Solid	mg/kg	
		Chrysene	< 0.033	1	0.033	Solid	mg/kg	
		Benzo(a)anthracene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	< 0.0059	1	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	1	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	< 0.0066	1	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	

Sample Date: 11-MAY-95
Receipt Date: 12-MAY-95
Extract Date: 13-MAY-95
Analysis Date: 15-MAY-95
Analyst: CMK

Note: Results in mg/kg are reported on a dry weight basis.

Dil = Dilution
MDL = Method detection Limit
WI Lab Certification ID#: 113138300

Chk'd: [illegible] App'd: CMD
Date App'd: 6.7.95

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PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Dil	MDL	Matrix	Units	Footnotes
L10714-007	HA-8 4-6	Naphthalene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	1	0.33	Solid	mg/kg	
		Fluorene	< 0.066	1	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	1	0.033	Solid	mg/kg	
		Anthracene	< 0.033	1	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	1	0.066	Solid	mg/kg	
		Pyrene	< 0.033	1	0.033	Solid	mg/kg	
		Chrysene	< 0.033	1	0.033	Solid	mg/kg	
		Benzo(a)anthracene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	< 0.0059	1	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	1	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	< 0.0066	1	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	

Sample Date: 11-MAY-95
Receipt Date: 12-MAY-95
Extract Date: 13-MAY-95
Analysis Date: 15-MAY-95
Analyst: CMK

Note: Results in mg/kg are reported on a dry weight basis.

Dil = Dilution
MDL = Method detection Limit
WI Lab Certification ID#: 113138300

Chk'd: [illegible] App'd: CAW
Date App'd: 6/12/95 release

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DIESEL RANGE ORGANICS (DRO)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Test	Result	Method Detection Limit	Matrix	Units	Petroleum Odor	Footnotes
L10714-001	B-4 2-4	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date:	09-MAY-95					
		Receipt Date:	12-MAY-95					
		Extract Date:	13-MAY-95					
		Analysis Date:	15-MAY-95					
		Analyst:	CMK					
		Dilution:	1					
L10714-002	B-3 6-8	Diesel Range Organics	22	10	Solid	mg/kg	None	G10
		Sample Date:	09-MAY-95					
		Receipt Date:	12-MAY-95					
		Extract Date:	13-MAY-95					
		Analysis Date:	15-MAY-95					
		Analyst:	CMK					
		Dilution:	1					
L10714-003	B-2 6-8	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date:	09-MAY-95					
		Receipt Date:	12-MAY-95					
		Extract Date:	13-MAY-95					
		Analysis Date:	15-MAY-95					
		Analyst:	CMK					
		Dilution:	1					
L10714-004	B-5 4-6	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date:	11-MAY-95					
		Receipt Date:	12-MAY-95					
		Extract Date:	13-MAY-95					
		Analysis Date:	15-MAY-95					
		Analyst:	CMK					
		Dilution:	1					

Note: Results in mg/kg are reported on a dry weight basis.

Chk'd: BSK App'd: CMK
Date App'd: 6.7.95

WI Lab Certification ID#: 113138300

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DIESEL RANGE ORGANICS (DRO)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Test	Result	Method Detection Limit	Matrix	Units	Petroleum Odor	Footnotes
L10714-005	HA-6 4-5	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date:	11-MAY-95					
		Receipt Date:	12-MAY-95					
		Extract Date:	13-MAY-95					
		Analysis Date:	15-MAY-95					
		Analyst:	CMK					
		Dilution:	1					
L10714-006	B-7 4-6	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date:	11-MAY-95					
		Receipt Date:	12-MAY-95					
		Extract Date:	13-MAY-95					
		Analysis Date:	15-MAY-95					
		Analyst:	CMK					
		Dilution:	1					
L10714-007	HA-8 4-6	Diesel Range Organics	10	10	Solid	mg/kg	None	G10
		Sample Date:	11-MAY-95					
		Receipt Date:	12-MAY-95					
		Extract Date:	13-MAY-95					
		Analysis Date:	15-MAY-95					
		Analyst:	CMK					
		Dilution:	1					

Note: Results in mg/kg are reported on a dry weight basis.

WI Lab Certification ID#: 113138300

Chk'd: [illegible] App'd: CMK
Date App'd: 6/12/95
release

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INORGANIC
QUALITY CONTROL REPORT

Project: Robert E. Lee/ Ness Service Center **Project #:** 4286.0220

Continuing Calibration Verification

All ICV/CCV's were within acceptable control limits.

Laboratory Control Sample

Compound	Batch Number	%Recovery	Control Limits
Lead	37049	99	80-120% Recovery

Blanks

Compound	Batch Number	Digested Blank	ICB/CCB
Solids, Total	36999	---	<0.5%
Lead	37049	<0.15mg/kg	all <0.0015mg/L
Lead	37219	0.38mg/kg(a)	all <0.0015mg/L

(a) Affected data (L10714-001) is flagged with an "A15" qualifier.

MS/MSD and Duplicate Results

Compound	Batch Number	Value 1	Value 2	% RPD	Control Limits
Solids, Total	36999	83.8	87.3	0.6	5.3% RPD
Lead	37219	4.73	4.55	3.9	27% RPD

Compound	Batch Number	% Recovery	Control Limits
Lead	37219	95	65-117% Recovery
Lead	37219	94	65-117% Recovery

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VOLATILE ORGANIC (VOC) QUALITY CONTROL REPORT

Project: Robert E. Lee/ Ness Service Center **Project #:** 4286.0220

Sample Specific Notes

The methanol trip blanks provided with the samples contained detects of a variety of compounds at levels above the LOQ. The samples also contain detects at similar concentrations. Further investigation into this contamination problem indicates the source of contamination may be coming from the septa. Efforts are being taken to resolve this problem.

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria with the following exceptions. The CCV associated with batch 37048 exceeded control limits for chloroform, bromoform, dichlorobromomethane, p-isopropyltoluene, and n-propylbenzene. Affected data are flagged with an "A17" qualifier. The CCV associated with batch 37139 exceeded control limits for n-butylbenzene, naphthalene, chloroform, dichlorobromomethane, chlorodibromomethane, and 1,1,1-trichloroethane. Affected data are flagged with an "A17" qualifier.

Method Blank Results

The method blank and samples associated with batches 37048 and 37139 contained an unknown interference that eluted at the same retention time as chloromethane, chloroethane, trichlorofluoromethane, and dichlorodifluoromethane. As a result, the reporting limits for these compounds are elevated.

The method blank associated with batch 37139 also contained 0.80 ug/L benzene, 0.73 ug/L bromodichloromethane, 0.73 ug/L chlorodibromomethane, 0.84 ug/L naphthalene, and 260 ug/L dichlorodifluoromethane. Affected data are flagged with an "A15" qualifier.

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VOLATILE ORGANIC (VOC) QUALITY CONTROL REPORT

Project: Robert E. Lee/ Ness Service Center **Project #:** 4286.0220

Method Checks

Batch Number - 37048

Compounds	MC -5/15/95 % Recovery	MC -5/16/95 % Recovery	Control Limits
1,1-Dichloroethene	76.2	127	43-141% Recovery
Trichloroethene	66.7	97.8	65-116% Recovery
Benzene	84.5	120	82-146% Recovery
Toluene	77.4(a)	109	79-135% Recovery
Chlorobenzene	65.6	87.7	63-102% Recovery

(a) Exceeded control limits. No action taken as other toluene QC was acceptable.

Batch Number -37139

Compounds	MC -5/16/95 % Recovery	MC -5/17/95 % Recovery	Control Limits
1,1-Dichloroethene	85.0	91.8	43-141% Recovery
Trichloroethene	121(a)	128(a)	65-116% Recovery
Benzene	117	124	82-146% Recovery
Toluene	96.2	105	79-135% Recovery
Chlorobenzene	94.0	97.0	63-102% Recovery

(a) Elevated recovery. No action taken as TCE was not detected in any samples associated with this batch.

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VOLATILE ORGANIC (VOC) QUALITY CONTROL REPORT

Project: Robert E. Lee/ Ness Service Center **Project #:** 4286.0220

Matrix Spike/Matrix Spike Duplicate Results

Compound	Batch Number	MS Recovery %	MSD Recovery %	RPD %	Control Limits
1,1-Dichloroethene	37048	73.3	91.8	22	53-131% recovery, 27% RPD
Trichloroethene	37048	54.9(a)	78.6	36(a)	57-111% recovery, 33% RPD
Benzene	37048	75.4	105	33(a)	63-137% recovery, 27% RPD
Toluene	37048	72.2	98.8	31	61-138% recovery,37% RPD
Chlorobenzene	37048	60.1	83.7	33	43-101% recovery, 33% RPD

(a) Exceeded control limits. No action taken as other QC was acceptable.

Compound	Batch Number	MS Recovery %	MSD Recovery %	RPD %	Control Limits
1,1-Dichloroethene	37139	89.2	112	23	53-131% recovery, 27% RPD
Trichloroethene	37139	115(a)	134(a)	15	57-111% recovery, 33% RPD
Benzene	37139	89.6	106	17	63-137% recovery, 27% RPD
Toluene	37139	83.2	100	18	61-138% recovery,37% RPD
Chlorobenzene	37139	86.0	108(a)	23	43-101% recovery, 33% RPD

(a) Elevated recovery. No action taken since chlorobenzene and TCE were not detected in any samples associated with this batch.

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VOLATILE ORGANIC (VOC) QUALITY CONTROL REPORT

Project: Robert E. Lee/ Ness Service Center **Project #:** 4286.0220

Surrogate Recoveries

Lab Number	Batch Number	Recovery (%) (PID Detector)	Control Limits	Recovery (%) (HALL Detector)	Control Limits
Blank 5-15	37048	101	51-116% recovery	96.3	43-109% recovery
Blank 5-16	37048	93.4	51-116% recovery	99.8	43-109% recovery
Blank 5-16	37139	103	51-116% recovery	144(a)	43-109% recovery
Blank 5-17	37139	119(a)	51-116% recovery	167(a)	43-109% recovery
L10714-001	37048	105	51-116% recovery	114(a)	43-109% recovery
L10714-002	37048	100	51-116% recovery	107	43-109% recovery
L10714-002 1/5	37048	77.3	51-116% recovery	86.3	43-109% recovery
L10714-003	37048	83.3	51-116% recovery	94.9	43-109% recovery
L10714-004	37048	94.9	51-116% recovery	104	43-109% recovery
L10714-005	37139	142(a)	51-116% recovery	156(a)	43-109% recovery
L10714-005 MS	37139	131(a)	51-116% recovery	163(a)	43-109% recovery
L10714-005 MSD	37139	135(a)	51-116% recovery	162(a)	43-109% recovery
L10714-006	37139	132(a)	51-116% recovery	162(a)	43-109% recovery
L10714-007	37139	135(a)	51-116% recovery	163(a)	43-109% recovery
L10714-007 1/5	37139	72.8	51-116% recovery	146(a)	43-109% recovery
L10714-008	37139	133(a)	51-116% recovery	155(a)	43-109% recovery
L10714-009	37139	134(a)	51-116% recovery	154(a)	43-109% recovery

(a) Elevated recovery. Since the blank and CCV surrogate was also high, it was concluded that the surrogate mix was biased high. The mix was remade on 5/22/95 and the instrument recalibrated on 5/24/95.

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GASOLINE RANGE ORGANICS (GRO)
QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center **Project #:** 4286.0220

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria.

Method Blank Results

All associated method blanks were below method detection limits.

Water Spike/Water Spike Duplicate

Compound	Batch Number	Water Spike Recovery (%)	Water Spike Dup. Recovery (%)	RPD (%)	Control Limits
GRO (5/17/95)	37191	103.4	95.4	8.0	80-120% recovery, 20% RPD
GRO (5/18/95)	37191	100.7	102.7	2.0	80-120% recovery, 20% RPD

Soil Spike Results

Compound	Batch Number	Soil Spike Recovery (%)	Control Limits
GRO (5/17/95)	37191	113.1	70-140% recovery, 20% RPD
GRO (5/18/95)	37191	105.2	70-140% recovery, 20% RPD

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PNA/PAH (HPLC) ORGANIC QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center **Project #:** 4286.0220

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria.

Method Blank Results

All associated method blanks were below method detection limits.

Method Check/Method Check Duplicate Results

Compound	Batch Number	MC Recovery(%)	MCD Recovery(%)	RPD(%)	Control Limits
Naphthalene	37006	79.9	NA	NA	64-113% Recovery, 27% RPD
Acenaphthylene	37006	80.6	NA	NA	69-108% Recovery, 26% RPD
Acenaphthene	37006	87.5	NA	NA	69-110% Recovery, 24% RPD
Fluorene	37006	90.5	NA	NA	71-116% Recovery, 23% RPD
Phenanthrene	37006	92.0	NA	NA	70-125% Recovery, 24% RPD
Anthracene	37006	73.2	NA	NA	61-123% Recovery, 24% RPD
Fluoranthene	37006	96.4	NA	NA	74-120% Recovery, 19% RPD
Pyrene	37006	100.6	NA	NA	71-141% Recovery, 31% RPD
Benzo(a)anthracene	37006	90.2	NA	NA	72-126% Recovery, 23% RPD
Chrysene	37006	95.5	NA	NA	75-119% Recovery, 34% RPD
Benzo(b)fluoranthene	37006	92.3	NA	NA	73-118% Recovery, 17% RPD
Benzo(k)fluoranthene	37006	89.6	NA	NA	69-115% Recovery, 17% RPD
Benzo(a)pyrene	37006	59.3	NA	NA	44-126% Recovery, 26% RPD
Dibenzo(ah)anthracene	37006	79.9	NA	NA	58-111% Recovery, 26% RPD
Benzo(ghi)perylene	37006	79.8	NA	NA	59-128% Recovery, 20% RPD
Indeno(123cd)pyrene	37006	92.0	NA	NA	56-123% Recovery, 23% RPD

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PNA/PAH (HPLC) ORGANIC QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center **Project #:** 4286.0220

Matrix Spike/Matrix Spike Duplicate Results

Compound	Batch Number	MS Recovery (%)	MSD Recovery(%)	RPD(%)	Control Limits
Naphthalene	37006	71.4	74.2	3.87	64-113% Recovery, 27% RPD
Acenaphthylene	37006	74.1	75.8	2.19	69-108% Recovery, 26% RPD
Acenaphthene	37006	79.1	80.5	1.66	69-110% Recovery, 24% RPD
Fluorene	37006	81.0	82.0	1.15	71-116% Recovery, 23% RPD
Phenanthrene	37006	83.5	86.2	3.18	70-125% Recovery, 24% RPD
Anthracene	37006	71.5	78.3	9.11	61-123% Recovery, 24% RPD
Fluoranthene	37006	88.2	89.5	1.47	74-120% Recovery, 19% RPD
Pyrene	37006	93.4	94.6	1.29	71-141% Recovery, 31% RPD
Benzo(a)anthracene	37006	86.8	86.4	0.46	72-126% Recovery, 23% RPD
Chrysene	37006	89.4	88.0	1.64	75-119% Recovery, 34% RPD
Benzo(b)fluoranthene	37006	88.9	86.5	2.75	73-118% Recovery, 17% RPD
Benzo(k)fluoranthene	37006	87.5	85.5	2.37	69-115% Recovery, 17% RPD
Benzo(a)pyrene	37006	71.4	75.3	5.31	44-126% Recovery, 26% RPD
Dibenzo(ah)anthracene	37006	80.8	78.9	2.38	58-111% Recovery, 26% RPD
Benzo(ghi)perylene	37006	87.5	86.2	1.55	59-128% Recovery, 20% RPD
Indeno(123cd)pyrene	37006	96.6	94.8	1.94	56-123% Recovery, 23% RPD

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PNA/PAH (HPLC) ORGANIC QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center **Project #:** 4286.0220

Surrogate Recoveries

Lab Number	Batch Number	Carbazole (VWD) Recovery (%)	Control Limits	DFBP (VWD) Recovery (%)	Control Limits
RB B/170	37006	77.5	61-113% Recovery	74.8	52-108% Recovery
MC B/170	37006	88.4	61-113% Recovery	84.5	52-108% Recovery
10714-001	37006	85.0	61-113% Recovery	81.0	52-108% Recovery
10714-002	37006	80.3	61-113% Recovery	75.1	52-108% Recovery
10714-003	37006	76.6	61-113% Recovery	74.4	52-108% Recovery
10714-004	37006	80.7	61-113% Recovery	73.2	52-108% Recovery
10714-005	37006	82.0	61-113% Recovery	78.8	52-108% Recovery
10714-005S	37006	82.7	61-113% Recovery	74.8	52-108% Recovery
10714-005T	37006	82.6	61-113% Recovery	78.0	52-108% Recovery
10714-006	37006	74.6	61-113% Recovery	72.1	52-108% Recovery
10714-007	37006	74.0	61-113% Recovery	70.0	52-108% Recovery

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DIESEL RANGE ORGANICS (DRO)
QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center **Project #:** 4286.0220

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria.

Method Blank Results

All associated method blanks were below method detection limits.

Water Spike/Water Spike Duplicate Results

Compound	Batch Number	Water Spike Recovery (%)	Water Spike Dup. Recovery (%)	RPD (%)	Control Limits
DRO	36997	108.3	92.9	15.31	80-120% Recovery, 20% RPD

Soil Spike Results

Compound	Batch Number	Soil Spike Recovery (%)	Control Limits
DRO	36997	96.0	60-130% recovery

Invoice Date
07-JUN-95

Invoice Number
ML378

REMIT TO:
MONTGOMERY WATSON Analytical Testing Services
Dept. 00757, Milwaukee, WI 53259-0757

INVOICE

BILL TO:
MR. GREG NESS
NESS SERVICE CENTER
975 WEST MASON STREET

GREEN BAY, WI 54303

Project: 4286.0220 ROBERT E. LEE/N
Start:
End:
Acctnum: 55

Sales1:
Sales2:

Terms: Upon Receipt
PO#: 2390-002

Sample Id: L10714-001, L10714-002, L10714-003, L10714-004, L10714-005, L10714-006, L10714-007, L10714-008, L10714-009
Client Id: B-4 2-4, B-3 6-8, B-2 6-8, B-5 4-6, HA-6 4-5, B-7 4-6, B-7 4-6, TRIP BLANK, TRIP BLANK

Qty	Matrix	Analysis	Description	Unit Price	Total Price
7	Solid	DIGCOMP	COMP METAL DIGESTION	$ 0.00	$ 0.00
7	Solid	DRO	DIESEL RANGE ORGANIC	$ 44.10	$ 308.70
9	Solid	GRO	GASOLINE RANGE ORGAN	$ 40.50	$ 364.50
7	Solid	PB	LEAD	$ 7.20	$ 50.40
7	Solid	PNA8310	HPLC POLYNUCLEAR ARO	$ 90.00	$ 630.00
7	Solid	TS	SOLIDS, TOTAL	$ 0.00	$ 0.00
9	Solid	VOCWIL8021P	VOLATILES 8021 METHA	$ 94.50	$ 850.50

Redo
Pay 1353.60

COPY

9 Samples; 53 Analyses; Total Amount Due: $ 2204.10

MONTGOMERY WATSON

CHAIN OF CUSTODY RECORD

Robert E. Lee 4286.022D

SPECIAL INSTRUCTIONS:
- ☐ PECFA
- ☒ WI LUST
- ☐ ACT 307
- ☐ REPORT DRY WT
- ☐ OTHER:

TURNAROUND
- ☒ 2 WEEKS (standard)
- ☐ 1 WEEK
- ☐ 3 DAYS
- ☐ 1 DAY

PROJECT NAME: Ness Service
PROJECT #: 239000 2
CITY: Green Bay
STATE: WI
SAMPLER(S): Tom Bishop

COLLECTION DATE	COLLECTION TIME	GRAB / COMP	SAMPLE ID	NO. OF CONTAINERS	GRO	DRO	VOC	PAH	Lead	TS	SOLIDS	REMARKS	LAB USE ONLY MATRIX	LAB USE ONLY LAB NO.
5-9-95	10:45	GRAB	TRIP BLANK	2	1	-	1	-	-				SOLIDS	10714-80
5-9-95	11:00	GRAB	B-4 2-4	8	2	2	2	1	1				↓	10714-50
5-9-95	12:30	GRAB	B-3 6-8	8	2	2	2	1	1					-00
5-9-95	2:15	GRAB	B-2 6-8	8	2	2	2	1	1					-60
5-11-95	8:30	GRAB	TRIP BLANK	2	1	-	1	-	-					-00
5-11-95	9:00	GRAB	B-5 4-6	8	2	2	2	1	1					-60
5-11-95	10:00	GRAB	HA-6 4-5	8	2	2	2	1	1					-00
5-11-95	11:10	GRAB	B-7 4-6	8	2	2	2	1	1					-00
5-11-95	12:30	GRAB	HA-8 4-5	8	2	2	2	1	1				↓	-00

SPECIAL INSTRUCTIONS:

RECEIVED: ☑ INTACT ☑ ON ICE TEMP _____ °F

PROJ. MGR.: D. LINLEY

SIGNATURE	PRINT NAME	COMPANY / TITLE	DATE	TIME
RELINQUISHED BY: Tom Bishop	Tom Bishop	REL TECH	5/11/95	3:55 PM
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY: [illegible]	BARAKA ONDIEK	MWATS	5/12/95	10:00 AM

C-O-C No. 011008

NAME OF COURIER: _____

AIRBILL NUMBER: [redacted]

MONTGOMERY WATSON
Analytical Testing Services

June 13, 1995

Mr. Steven M. Grenier
Robert E. Lee & Associates, Inc.
Engineering, Surveying, Laboratory Services
2825 South Webster Avenue
P.O. Box 2100
Green Bay, Wisconsin 54306-2100

Re: Ness Service Center/2390-002

Dear Mr. Grenier:

Enclosed are the reissued pages for sample L10714-007 with the corrected identification of "HA-8 4-6" that was collected May 8 & 9, 1995.and received May 12, 1995.

Please feel free to call if you have any questions.

Sincerely,

MONTGOMERY WATSON
Analytical Testing Services

Dennis J. Linley
Lab Services Coordinator

Enclosures:
INORG -3
VOC -13 & 14
GRO -2
PNA -7
DRO -2

cc: D. Linley

SMT/dsk/GLG
G:\DMGMT\LETTERS\42860310.DOC
L10714

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DIESEL RANGE ORGANICS (DRO)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Test	Result	Method Detection Limit	Matrix	Units	Petroleum Odor	Footnotes
L10714-005	HA-6 4-5	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date:	11-MAY-95					
		Receipt Date:	12-MAY-95					
		Extract Date:	13-MAY-95					
		Analysis Date:	15-MAY-95					
		Analyst:	CMK					
		Dilution:	1					
L10714-006	B-7 4-6	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date:	11-MAY-95					
		Receipt Date:	12-MAY-95					
		Extract Date:	13-MAY-95					
		Analysis Date:	15-MAY-95					
		Analyst:	CMK					
		Dilution:	1					
L10714-007	B-7 4-6	Diesel Range Organics	10	10	Solid	mg/kg	None	G10
		Sample Date:	11-MAY-95					
		Receipt Date:	12-MAY-95					
		Extract Date:	13-MAY-95					
		Analysis Date:	15-MAY-95					
		Analyst:	CMK					
		Dilution:	1					

Note: Results in mg/kg are reported on a dry weight basis.

Chk'd: [illegible] App'd: CMW
Date App'd: 6.9.95

WI Lab Certification ID#: 113138300

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PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Dil	MDL	Matrix	Units	Footnotes
L10714-007	B-7 4-6	Naphthalene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	1	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	1	0.33	Solid	mg/kg	
		Fluorene	< 0.066	1	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	1	0.033	Solid	mg/kg	
		Anthracene	< 0.033	1	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	1	0.066	Solid	mg/kg	
		Pyrene	< 0.033	1	0.033	Solid	mg/kg	
		Chrysene	< 0.033	1	0.033	Solid	mg/kg	
		Benzo(a)anthracene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	< 0.0059	1	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	< 0.0033	1	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	< 0.0033	1	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	1	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	< 0.0066	1	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	1	0.33	Solid	mg/kg	

Sample Date: 11-MAY-95
Receipt Date: 12-MAY-95
Extract Date: 13-MAY-95
Analysis Date: 15-MAY-95
Analyst: CMK

Note: Results in mg/kg are reported on a dry weight basis.

Dil = Dilution
MDL = Method detection Limit
WI Lab Certification ID#: 113138300

Chk'd: [illegible] App'd: [illegible]
Date App'd: 6/19/95

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INORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #: L10714-007
Description: B-7 4-6
Sample Date: 11-MAY-95
Receipt Date: 12-MAY-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	2.25	1	0.15	Solid	mg/kg	HJM	17-MAY-95	
Solids, Total	84.7	1	0.5	Solid	%	WRM	15-MAY-95	

Note: Results in mg/kg are reported on a dry weight basis.

MDL = Method Detection Limit
WI Lab Certification ID#: 113138300

Chk'd: RSK App'd: CAO
Date App'd: 6-7-95

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
10714-007	Hexachlorobutadiene	25	60	< 25	1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	110	1	NR	ug/kg	
~~7-4-6~~ HA-8	p-Isopropyltoluene	25	60	42 J	1	NR	ug/kg	
	Methylene chloride	25	60	< 25	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25	1	NR	ug/kg	
	Naphthalene	25	60	260	1	NR	ug/kg	A15, A17
	n-Propylbenzene	25	60	370	1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25	1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25	1	NR	ug/kg	
	Toluene	25	60	89	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	Trichloroethene	25	60	< 25	1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trimethylbenzene	25	60	1800	5	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	560	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25	1	NR	ug/kg	
	o-Xylene	25	60	220	1	NR	ug/kg	
	m + p-Xylene	50	120	960	1	NR	ug/kg	

Sample Date : 11-MAY-95
Receipt Date : 12-MAY-95
Analysis Date : 17-MAY-95
Confirmation Date : None
Analyst : LH

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: RSM App'd: CAW
Date App'd: 6.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L10714-007	Benzene	25	60	390	1	NR	ug/kg	A15
Solid	Bromobenzene	25	60	< 25	1	NR	ug/kg	
~~B-7-4-6~~	Bromodichloromethane	25	60	44 J	1	NR	ug/kg	A15, A17
HA-8	n-Butylbenzene	25	60	920	1	NR	ug/kg	A17
	sec-Butylbenzene	25	60	84	1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25	1	NR	ug/kg	
	Chlorobenzene	25	60	< 25	1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25	1	NR	ug/kg	
	Chloroethane	25	60	< 25	1	NR	ug/kg	
	Chloroform	25	60	44 J	1	NR	ug/kg	A17
	Chloromethane	25	60	< 1000	1	NR	ug/kg	A2
	2-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 1000	1	NR	ug/kg	A2
	1,1-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25	1	NR	ug/kg	
	Ethylbenzene	25	60	360	1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: RSK App'd: CAD
Date App'd: 6-19-95

WI Lab Certification ID#: 113138300

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Analytical Testing Services

University Research Park
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Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

GASOLINE RANGE ORGANICS (GRO)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Test	Result	Method Detection Limit	Matrix	Units	Petroleum Odor	Footnotes
10714-005	HA-6 4-5	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 11-MAY-95						
		Receipt Date: 12-MAY-95						
		Analysis Date: 18-MAY-95						
		Analyst: AJK						
		Dilution: 1						
L10714-006	B-7 4-6	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 11-MAY-95						
		Receipt Date: 12-MAY-95						
		Analysis Date: 18-MAY-95						
		Analyst: AJK						
		Dilution: 1						
10714-007	B-7 4-6 HA 8	Gasoline Range Organics	12	10	Solid	mg/kg	None	
		Sample Date: 11-MAY-95						
		Receipt Date: 12-MAY-95						
		Analysis Date: 18-MAY-95						
		Analyst: AJK						
		Dilution: 1						
10714-008	TRIP BLANK	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 09-MAY-95						
		Receipt Date: 12-MAY-95						
		Analysis Date: 18-MAY-95						
		Analyst: AJK						
		Dilution: 1						

Note: Results in mg/kg are reported on a dry weight basis.

Chk'd: RSK App'd: CHW
Date App'd: 6.7.95

WI Lab Certification ID#: 113138300

MONTGOMERY WATSON
Analytical Testing Services

September 7, 1995

Ms. Charlene T. Stinson
Robert E. Lee & Associates, Inc.
Engineering, Surveying, Laboratory Services
2825 South Webster Avenue
P.O. Box 2100
Green Bay, Wisconsin 54306-2100

Re: Ness Service Center/2561005

Dear Ms. Stinson:

Enclosed are the analytical results and chain-of-custody for the samples collected August 18, 1995 and received August 22, 1995. Our lab certification number is 113138300. Also enclosed is a copy of our Invoice No. ML678. The original has been sent to Ness Service Center.

Please feel free to call if you have any questions.

Sincerely,

MONTGOMERY WATSON
Analytical Testing Services

Dennis J. Linley
Lab Services Coordinator

Enclosures: As stated

SMT/dsk/GLG
G:\DMGMT\LETTERS\42860220.DOC
L11452

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53711

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STANDARD REPORT FOOTNOTES

A1 Elevated quantitation limit due to low sample volume.

A2 Elevated quantitation limit necessary to overcome interference.

A4 Result should be considered estimated due to sample-related problems encountered during analysis.

A11 Sample received past recommended hold time.

A12 Analysis requested past recommended hold time.

A13 Initial analysis performed within hold time; confirmation analysis performed past recommended hold time. Results from repeat analysis are reported.

A14 Initial analysis performed within hold time; necessary dilution performed past recommended hold time. Results from repeat analysis are reported.

A15 Result should be considered estimated; analyte detected in method blank. CL2F2CH @ 1400

A17 Result should be considered estimated as indicated by method QC.

M3 Total analysis performed due to insufficient solid for TCLP extraction.

G1 Result should be considered estimated, concentration exceeds working calibration range.

G2 Elevated quantitation limit due to the concentration of petroleum hydrocarbons in the sample.

G3 Elevated quantitation limit due to the concentration of non-specific hydrocarbons in the sample.

G4 Analyte coelutes with _____; result calculated from calibration standards in a 1:1 ratio of these two compounds.

G5 Sample required extensive cleanup; Endrin Aldehyde is not recovered from these techniques.

G6 Petroleum-type odor detected from this sample.

G7 Elevated quantitation limit due to the concentration of PCBs in the sample.

G8 Result should be considered estimated due to coelution with an additional hydrocarbon product.

G9 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products.

G10 Presence of one or more unidentified peaks eluting earlier than the retention time window.

G11 Presence of one or more unidentified peaks eluting later than the retention time window.

G12 Result is estimated. The method used is a screening procedure for this compound.

G13 Measurement performed using test strips.

G15 n-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from Diphenylamine.

G16 Measurement upon receipt performed using test strips. Adjusted to pH <2.

G17 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products. Final results pending GC/MS confirmation.

G18 An LCS/LCS duplicate was performed in lieu of an MS/MSD due to insufficient sample volume available for the MS/MSD analysis.

G19 Sample was filtered and preserved in the laboratory upon receipt.

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METHOD REFERENCES

Compounds	Soil/Groundwater	Wastewater
Alcohol	8015*	8015*
BEXT	8020***	602
DRO	Modified DRO	Modified DRO
GRO	Modified GRO***	Modified GRO
Fatty Acids	8015*	8015*
Herbicides	8150	8150
Pesticides	8080	608
Pesticide/PCBs	8080	608
PCBs	8080**	608
PCBs	8080****	608
PCP/PHEN	8040****	8040****
PNA (GC/MS)	8270	8270
PNA (HPLC)	8310	8310
PVOCs	8020***	8020
SVOCs	8270	8270
TPH	D-3328-78*	D-3328-78*
TRPH	418.1 & 9073	418.1 & 9073
VOCs	8021	8021
VOCs	8010/8020***	601/602
Solids, Total	160.3	160.3

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Organic Chemical Analysis of Water and Wastes", March, 1984.

ASTM, "Annual Book of ASTM Standards", 1990.

Wisconsin DNR Modified 9073 TRPH, PUBL-SW-140, Wisconsin DNR, April 1992.

Wisconsin DNR Modified DRO, PUBL-SW-141, Wisconsin DNR, July 1993.

Wisconsin DNR Modified GRO, PUBL-SW-140, Wisconsin DNR, July 1993.

* With Modifications
** With Modfications for Oil Matrix
*** With Modfications for Soil Gas Matrix
**** With Modifications for Wipe Matrix

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INORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #: L11452-002
Description: B-4 2-4
Sample Date: 18-AUG-95
Receipt Date: 22-AUG-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Solids, Total	85.7	1	0.5	Solid	%	AD	23-AUG-95	

Sample #: L11452-003
Description: B-3 6-8
Sample Date: 18-AUG-95
Receipt Date: 22-AUG-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Solids, Total	72.0	1	0.5	Solid	%	AD	23-AUG-95	

Sample #: L11452-004
Description: B-2 6-8
Sample Date: 18-AUG-95
Receipt Date: 22-AUG-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Solids, Total	86.8	1	0.5	Solid	%	AD	23-AUG-95	

MDL = Method Detection Limit
WI Lab Certification ID#: 113138300

Chk'd: MSC App'd: AKO
Date App'd: 9.7.95

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INORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #: L11452-005
Description: HA-6 4-5
Sample Date: 18-AUG-95
Receipt Date: 22-AUG-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Solids, Total	84.6	1	0.5	Solid	%	AD	23-AUG-95	

Sample #: L11452-006
Description: B-7 4-6
Sample Date: 18-AUG-95
Receipt Date: 22-AUG-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Solids, Total	86.3	1	0.5	Solid	%	AD	23-AUG-95	

Sample #: L11452-007
Description: B-5 4-6
Sample Date: 18-AUG-95
Receipt Date: 22-AUG-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Solids, Total	87.2	1	0.5	Solid	%	AD	23-AUG-95	

MDL = Method Detection Limit
WI Lab Certification ID#: 113138300

Chk'd: MAK App'd: GAO
Date App'd: 9.7.95

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L11452-001	Benzene	25	60	< 25	1	NR	ug/kg	
Solid	Bromobenzene	25	60	< 25	1	NR	ug/kg	
TRIP BLANK	Bromodichloromethane	25	60	< 25	1	NR	ug/kg	
	n-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	sec-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25	1	NR	ug/kg	
	Chlorobenzene	25	60	< 25	1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25	1	NR	ug/kg	
	Chloroethane	25	60	< 25	1	NR	ug/kg	
	Chloroform	25	60	< 25	1	NR	ug/kg	
	Chloromethane	25	60	< 25	1	NR	ug/kg	
	2-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 25	1	NR	ug/kg	A17
	1,1-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25	1	NR	ug/kg	
	Ethylbenzene	25	60	< 25	1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: RSK App'd: CAW
Date App'd: 9/19/95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L11452-001	Hexachlorobutadiene	25	60	< 25	1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	< 25	1	NR	ug/kg	
TRIP BLANK	p-Isopropyltoluene	25	60	< 25	1	NR	ug/kg	
	Methylene chloride	25	60	< 25	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25	1	NR	ug/kg	A17
	Naphthalene	25	60	< 25	1	NR	ug/kg	
	n-Propylbenzene	25	60	< 25	1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25	1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25	1	NR	ug/kg	
	Toluene	25	60	< 25	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	Trichloroethene	25	60	< 25	1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	A17
	1,3,5-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25	1	NR	ug/kg	
	o-Xylene	25	60	< 25	1	NR	ug/kg	
	m + p-Xylene	50	120	< 50	1	NR	ug/kg	

Sample Date : 18-AUG-95
Receipt Date : 22-AUG-95
Analysis Date : 24-AUG-95
Confirmation Date : None
Analyst : RT

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

WI Lab Certification ID#: 113138300

Chk'd: DSK App'd: MD
Date App'd: 9.9.95

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L11452-002	Benzene	25	60	< 25	1	NR	ug/kg	
Solid	Bromobenzene	25	60	< 25	1	NR	ug/kg	
B-4 2-4	Bromodichloromethane	25	60	< 25	1	NR	ug/kg	
	n-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	sec-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25	1	NR	ug/kg	
	Chlorobenzene	25	60	< 25	1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25	1	NR	ug/kg	
	Chloroethane	25	60	< 25	1	NR	ug/kg	
	Chloroform	25	60	< 25	1	NR	ug/kg	
	Chloromethane	25	60	< 25	1	NR	ug/kg	A17
	2-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	920	1	NR	ug/kg	A15
	1,1-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25	1	NR	ug/kg	A17
	Ethylbenzene	25	60	< 25	1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
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LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: MMC App'd: CAW
Date App'd: 9.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L11452-002	Hexachlorobutadiene	25	60	< 25	1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	< 25	1	NR	ug/kg	
B-4 2-4	p-Isopropyltoluene	25	60	< 25	1	NR	ug/kg	
	Methylene chloride	25	60	< 25	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25	1	NR	ug/kg	A17
	Naphthalene	25	60	< 25	1	NR	ug/kg	
	n-Propylbenzene	25	60	< 25	1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25	1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25	1	NR	ug/kg	
	Toluene	25	60	< 25	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	Trichloroethene	25	60	< 25	1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25	1	NR	ug/kg	
	o-Xylene	25	60	< 25	1	NR	ug/kg	
	m + p-Xylene	50	120	< 50	1	NR	ug/kg	

Sample Date : 18-AUG-95
Receipt Date : 22-AUG-95
Analysis Date : 23-AUG-95
Confirmation Date : None
Analyst : RT

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
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NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: MJK App'd: CRW
Date App'd: 9.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L11452-003	Benzene	25	60	< 25	1	NR	ug/kg	
Solid	Bromobenzene	25	60	< 25	1	NR	ug/kg	
B-3 6-8	Bromodichloromethane	25	60	< 25	1	NR	ug/kg	
	n-Butylbenzene	25	60	78	1	NR	ug/kg	
	sec-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25	1	NR	ug/kg	
	Chlorobenzene	25	60	< 25	1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25	1	NR	ug/kg	
	Chloroethane	25	60	< 25	1	NR	ug/kg	
	Chloroform	25	60	< 25	1	NR	ug/kg	
	Chloromethane	25	60	< 25	1	NR	ug/kg	A17
	2-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25	1	NR	ug/kg	A17
	Ethylbenzene	25	60	< 25	1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
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NC = Not confirmed
NA = Per client's request, confirmation not addressed
LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: [illegible] App'd: [illegible]
Date App'd: 9.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
11452-003	Hexachlorobutadiene	25	60	< 25	1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	77	1	NR	ug/kg	
B-3 6-8	p-Isopropyltoluene	25	60	< 25	1	NR	ug/kg	
	Methylene chloride	25	60	< 25	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25	1	NR	ug/kg	A17
	Naphthalene	25	60	< 25	1	NR	ug/kg	
	n-Propylbenzene	25	60	60 J	1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25	1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25	1	NR	ug/kg	
	Toluene	25	60	170	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	Trichloroethene	25	60	< 25	1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25	1	NR	ug/kg	
	o-Xylene	25	60	< 25	1	NR	ug/kg	
	m + p-Xylene	50	120	< 50	1	NR	ug/kg	

Sample Date : 18-AUG-95
Receipt Date : 22-AUG-95
Analysis Date : 23-AUG-95
Confirmation Date : None
Analyst : RT

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
NC = Not confirmed
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LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: DSK App'd: CAW
Date App'd: 9.1.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L11452-004	Benzene	25	60	< 25	1	NR	ug/kg	
Solid	Bromobenzene	25	60	< 25	1	NR	ug/kg	
B-2 6-8	Bromodichloromethane	25	60	< 25	1	NR	ug/kg	
	n-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	sec-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25	1	NR	ug/kg	
	Chlorobenzene	25	60	< 25	1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25	1	NR	ug/kg	
	Chloroethane	25	60	< 25	1	NR	ug/kg	
	Chloroform	25	60	< 25	1	NR	ug/kg	
	Chloromethane	25	60	< 25	1	NR	ug/kg	A17
	2-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25	1	NR	ug/kg	A17
	Ethylbenzene	25	60	< 25	1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
C = Confirmed
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LOD = Limit of detection
LOQ = Limit of quantitation
J = Value between LOD and LOQ, and should be considered estimated

**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: [illegible] App'd: [illegible]
Date App'd: 9.19.95

WI Lab Certification ID#: 113138300

MONTGOMERY WATSON
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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L11452-004	Hexachlorobutadiene	25	60	< 25	1	NR	ug/kg	
olid	Isopropylbenzene	25	60	< 25	1	NR	ug/kg	
-2 6-8	p-Isopropyltoluene	25	60	< 25	1	NR	ug/kg	
	Methylene chloride	25	60	< 25	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25	1	NR	ug/kg	A17
	Naphthalene	25	60	< 25	1	NR	ug/kg	
	n-Propylbenzene	25	60	< 25	1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25	1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25	1	NR	ug/kg	
	Toluene	25	60	< 25	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	Trichloroethene	25	60	< 25	1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25	1	NR	ug/kg	
	o-Xylene	25	60	< 25	1	NR	ug/kg	
	m + p-Xylene	50	120	< 50	1	NR	ug/kg	

Sample Date : 18-AUG-95
Receipt Date : 22-AUG-95
Analysis Date : 23-AUG-95
Confirmation Date : None
Analyst : RT

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

ethod Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

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**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

WI Lab Certification ID#: 113138300

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Date App'd: 9.7.95

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L11452-005	Benzene	25	60	< 25	1	NR	ug/kg	
Solid	Bromobenzene	25	60	< 25	1	NR	ug/kg	
MA-6 4-5	Bromodichloromethane	25	60	< 25	1	NR	ug/kg	
	n-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	sec-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25	1	NR	ug/kg	
	Chlorobenzene	25	60	< 25	1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25	1	NR	ug/kg	
	Chloroethane	25	60	< 25	1	NR	ug/kg	
	Chloroform	25	60	< 25	1	NR	ug/kg	
	Chloromethane	25	60	< 25	1	NR	ug/kg	A17
	2-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25	1	NR	ug/kg	A17
	Ethylbenzene	25	60	< 25	1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
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J = Value between LOD and LOQ, and should be considered estimated

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Chk'd: DSK App'd: CAW
Date App'd: 9.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
11452-005	Hexachlorobutadiene	25	60	< 25	1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	< 25	1	NR	ug/kg	
A-6 4-5	p-Isopropyltoluene	25	60	< 25	1	NR	ug/kg	
	Methylene chloride	25	60	< 25	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25	1	NR	ug/kg	A17
	Naphthalene	25	60	< 25	1	NR	ug/kg	
	n-Propylbenzene	25	60	< 25	1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25	1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25	1	NR	ug/kg	
	Toluene	25	60	< 25	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	Trichloroethene	25	60	< 25	1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25	1	NR	ug/kg	
	o-Xylene	25	60	< 25	1	NR	ug/kg	
	m + p-Xylene	50	120	< 50	1	NR	ug/kg	

Sample Date : 18-AUG-95
Receipt Date : 22-AUG-95
Analysis Date : 23-AUG-95
Confirmation Date : None
Analyst : RT

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

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**** For footnotes codes, please refer to 'STANDARD REPORT FOOTNOTES' page.

Chk'd: NSK App'd: CAW
Date App'd: 9.7.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L11452-006	Benzene	25	60	< 25	1	NR	ug/kg	
Solid	Bromobenzene	25	60	< 25	1	NR	ug/kg	
B-7 4-6	Bromodichloromethane	25	60	< 25	1	NR	ug/kg	
	n-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	sec-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25	1	NR	ug/kg	
	Chlorobenzene	25	60	< 25	1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25	1	NR	ug/kg	
	Chloroethane	25	60	< 25	1	NR	ug/kg	
	Chloroform	25	60	< 25	1	NR	ug/kg	
	Chloromethane	25	60	< 25	1	NR	ug/kg	A17
	2-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	980	1	NR	ug/kg	A15
	1,1-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25	1	NR	ug/kg	A17
	Ethylbenzene	25	60	< 25	1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

Abbreviation codes: NR = Confirmation not required
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Chk'd: MSK App'd: CAW
Date App'd: 9.9.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
11452-006	Hexachlorobutadiene	25	60	< 25	1	NR	ug/kg	
Solid	Isopropylbenzene	25	60	< 25	1	NR	ug/kg	
-7 4-6	p-Isopropyltoluene	25	60	< 25	1	NR	ug/kg	
	Methylene chloride	25	60	< 25	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25	1	NR	ug/kg	A17
	Naphthalene	25	60	< 25	1	NR	ug/kg	
	n-Propylbenzene	25	60	< 25	1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25	1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25	1	NR	ug/kg	
	Toluene	25	60	< 25	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	Trichloroethene	25	60	< 25	1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25	1	NR	ug/kg	
	o-Xylene	25	60	< 25	1	NR	ug/kg	
	m + p-Xylene	50	120	< 50	1	NR	ug/kg	

Sample Date : 18-AUG-95
Receipt Date : 22-AUG-95
Analysis Date : 23-AUG-95
Confirmation Date : None
Analyst : RT

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

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Chk'd: MJC App'd: CAW
Date App'd: 9.1.95

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L11452-007	Benzene	25	60	< 25	1	NR	ug/kg	
Solid	Bromobenzene	25	60	< 25	1	NR	ug/kg	
B-5 4-6	Bromodichloromethane	25	60	< 25	1	NR	ug/kg	
	n-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	sec-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	tert-Butylbenzene	25	60	< 25	1	NR	ug/kg	
	Carbon tetrachloride	25	60	< 25	1	NR	ug/kg	
	Chlorobenzene	25	60	< 25	1	NR	ug/kg	
	Chlorodibromomethane	25	60	< 25	1	NR	ug/kg	
	Chloroethane	25	60	< 25	1	NR	ug/kg	
	Chloroform	25	60	< 25	1	NR	ug/kg	
	Chloromethane	25	60	< 25	1	NR	ug/kg	A17
	2-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	4-Chlorotoluene	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromo-3-chloropropane	25	60	< 25	1	NR	ug/kg	
	1,2-Dibromoethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,3-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,4-Dichlorobenzene	25	60	< 25	1	NR	ug/kg	
	Dichlorodifluoromethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	cis-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	trans-1,2-Dichloroethene	25	60	< 25	1	NR	ug/kg	
	1,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	1,3-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	2,2-Dichloropropane	25	60	< 25	1	NR	ug/kg	
	Di-isopropyl ether	25	60	< 25	1	NR	ug/kg	A17
	Ethylbenzene	25	60	< 25	1	NR	ug/kg	

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

Method Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

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Chk'd: RSK App'd: CMW
Date App'd: 9.19.94

WI Lab Certification ID#: 113138300

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LUST VOLATILE ORGANIC REPORT (8021)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample Information	Compound	LOD	LOQ	Result	Dil	Confirmation	Units	Footnotes ****
L11452-007	Hexachlorobutadiene	25	60	< 25	1	NR	ug/kg	
olid	Isopropylbenzene	25	60	< 25	1	NR	ug/kg	
-5 4-6	p-Isopropyltoluene	25	60	< 25	1	NR	ug/kg	
	Methylene chloride	25	60	< 25	1	NR	ug/kg	
	Methyl tert-butyl ether	25	60	< 25	1	NR	ug/kg	A17
	Naphthalene	25	60	< 25	1	NR	ug/kg	
	n-Propylbenzene	25	60	< 25	1	NR	ug/kg	
	1,1,2,2-Tetrachloroethane	25	60	< 25	1	NR	ug/kg	
	Tetrachloroethene	25	60	< 25	1	NR	ug/kg	
	Toluene	25	60	< 25	1	NR	ug/kg	
	1,2,3-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trichlorobenzene	25	60	< 25	1	NR	ug/kg	
	1,1,1-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	1,1,2-Trichloroethane	25	60	< 25	1	NR	ug/kg	
	Trichloroethene	25	60	< 25	1	NR	ug/kg	
	Trichlorofluoromethane	25	60	< 25	1	NR	ug/kg	
	1,2,4-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	1,3,5-Trimethylbenzene	25	60	< 25	1	NR	ug/kg	
	Vinyl chloride	25	60	< 25	1	NR	ug/kg	
	o-Xylene	25	60	< 25	1	NR	ug/kg	
	m + p-Xylene	50	120	< 50	1	NR	ug/kg	

Sample Date : 18-AUG-95
Receipt Date : 22-AUG-95
Analysis Date : 23-AUG-95
Confirmation Date : None
Analyst : RT

Note: "Detects" are reported on a dry weight basis. "Non-detects" are reported on wet weight basis.

ethod Reference: Initial analysis - SW846, Method 8021A (with modifications).
Confirmation analysis - SW846, Method 8021A (with modifications using an alternate column).

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Chk'd: [illegible] App'd: [illegible]
Date App'd: 9.7.95

I Lab Certification ID#: 113138300

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INORGANIC
QUALITY CONTROL REPORT

Project: Robert E. Lee/ Ness Service Center **Project #:** 4286.0220

Duplicate Results

Compound	Batch Number	Sample Results (%)	DUP Results (%)	RPD (%)	Control Limits
Solids, Total	39561	92.6	91.7	1.0	5.3% RPD
Solids, Total	39561	85.7	85.3	0.5	5.3% RPD

Method Blank Results

All associated method blanks were below method detection limits.

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VOLATILE ORGANIC (VOC) QUALITY CONTROL REPORT

Project: Robert E. Lee/ Ness Service Center **Project #:** 4286.0220

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria except for dichlorodifluoromethane, diisopropylether, MTBE, and 1,2,4-trimethylbenzene. Affected data are flagged "A17".

Method Checks

Compounds	MC -8/23/95 % Recovery	MC -8/24/95 % Recovery	Control Limits
1,1-Dichloroethene	165 (a)	92	55-144% Recovery
Trichloroethene	104	84	59-127% Recovery
Benzene	139	98	71-147% Recovery
Toluene	110	86	78-128% Recovery
Chlorobenzene	105 (a)	81	63-102% Recovery

(a) Exceeded control limits. 1,1-Dichloroethene detects were confirmed by another instrument. No action taken for chlorobenzene.

Method Blank Results

All associated method blanks were below method detection limits except for dichlorodifluoromethane (1400 ug/kg). Detects are flagged "A15".

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

VOLATILE ORGANIC (VOC) QUALITY CONTROL REPORT

Project: Robert E. Lee/ Ness Service Center **Project #:** 4286.0220

Matrix Spike/Matrix Spike Duplicate Results

Compound	Batch Number	MS Recovery %	MSD Recovery %	RPD %	Control Limits
1,1-Dichloroethene	39585	66	76	14	31-130% recovery, 33% RPD
Trichloroethene	39585	82	83.2	1	66-127% recovery, 32% RPD
Benzene	39585	99	96.8	2	73-140% recovery, 26% RPD
Toluene	39585	81	75.8	6	70-132% recovery, 28% RPD
Chlorobenzene	39585	81	85	5	64-116% recovery, 28% RPD

Surrogate Recoveries

Lab Number	Batch Number	Recovery (%) (PID Detector)	Control Limits	Recovery (%) (HALL Detector)	Control Limits.
L11452-001	39585	91.5	48-144% recovery	79.3	22-138% recovery
L11452-002	39585	59.8	48-144% recovery	55.1	22-138% recovery
L11452-003	39585	89	48-144% recovery	63.3	22-138% recovery
L11452-004	39585	76.2	48-144% recovery	70.9	22-138% recovery
L11452-005	39585	85.8	48-144% recovery	80	22-138% recovery
L11452-006	39585	67.5	48-144% recovery	62.8	22-138% recovery
L11452-007	39585	96.4	48-144% recovery	83.6	22-138% recovery

Invoice Date
07-SEP-95

REMIT TO:
MONTGOMERY WATSON Analytical Testing Services
Dept. 00757, Milwaukee, WI 53259-0757

Invoice Number
ML678

INVOICE

BILL TO:
MR. GREG NESS
NESS SERVICE CENTER
975 WEST MASON STREET

GREEN BAY, WI 54303

Project: 4286.0220 ROBERT E. LEE/N
Start:
End:
Acctnum: 55

Sales1:
Sales2:

Terms: Upon Receipt
PO#: 2390-002

Sample Id: L11452-001, L11452-002, L11452-003, L11452-004, L11452-005, L11452-006, L11452-007
Client Id: TRIP BLANK, B-4 2-4, B-3 6-8, B-2 6-8, HA-6 4-5, B-7 4-6, B-5 4-6

Qty	Matrix	Analysis	Description	Unit Price	Total Price
6	Solid	TS	SOLIDS, TOTAL	$ 0.00	$ 0.00
7	Solid	VOCWIL8021P	VOLATILES 8021 METHA	$ 105.00	$ 735.00

COPY

7 Samples; 13 Analyses; Total Amount Due: $ 735.00

MONTGOMERY WATSON
Analytical Testing Services

September 7, 1995

Mr. Greg Ness
Ness Service Center
975 West Mason Street
Green Bay, Wisconsin 54303

Re: 2561005

Dear Mr. Ness:

Enclosed is our Invoice No. ML678 for the samples collected August 18, 1995 and received August 22, 1995. Please feel free to call if you have any questions.

Sincerely,

MONTGOMERY WATSON
Analytical Testing Services

Dennis J. Linley
Lab Services Coordinator

Enclosures: As stated

cc: C. Stinson

SMT/dsk/GLG
G:\DMGMT\LETTERS\42860220.DOC
L11452

University Research Park
One Science Court
Madison, Wisconsin
53711

Tel: 608 231 4747
Fax: 608 231 4777

MONTGOMERY WATSON

CHAIN OF CUSTODY RECORD

ROBERT E. LEE

[redacted] INSTRUCTIONS: [redacted] NAP[redacted]

- ☐ PECFA
- ☐ WI LUST
- ☐ ACT 307
- ☐ REPORT DRY WT
- ☐ OTHER:

- ☐ 2 WEEKS (standard)
- ☐ 1 WEEK
- ☐ 3 DAYS
- ☐ 1 DAY

PROJECT NAME: Ness Service

PROJECT #: 4286.0220 2561005

CITY: Green Bay STATE: WI

SAMPLER(S): Tom Bishop/mes

COLLECTION DATE	COLLECTION TIME	GRAB / COMP	SAMPLE ID	NO. OF CONTAINERS	VOC-8021	% Solids	REMARKS	LAB USE ONLY MATRIX	LAB USE ONLY LAB NO.
8-18-95	10:45	GRAB	TRIP Blank	1	1	-		W	11452-001
8-18-95	10:50	GRAB	B-4 2-4	3	2	1			-002
8-18-95	11:15	GRAB	B-3 6-8	3	2	1			-003
8-18-95	11:35	GRAB	B-2 6-8	3	2	1			-004
8-18-95	11:40	GRAB	HA-6 4-5	3	2	1			-005
8-18-95	12:00	GRAB	B-7 4-6	3	2	1			-006
8-18-95	12:15	GRAB	B-5 4-6	3	2	1			-007

SPECIAL INSTRUCTIONS:

RECEIVED: ☒ INTACT ☒ ON ICE TEMP _____ OF

PROJ. MGR.: D. Linley

Sample JARS do not contain Septa

& AVG Wt of JAR = 88.789

SIGNATURE	PRINT NAME	COMPANY / TITLE	DATE	TIME
RELINQUISHED BY: Tom Bishop	Tom Bishop	REL TECH		
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY: L. Collins	L. Collins	M W&S	8/22	1013 AM

C-O-C No. 010782

NAME OF COURIER: _____

AIRBILL NUMBER: _____

MONTGOMERY WATSON
Analytical Testing Services

April 19, 1995

Ms. Charlene T. Stinson
Robert E. Lee & Associates, Inc.
Engineering, Surveying, Laboratory Services
2825 South Webster Avenue
P.O. Box 2100
Green Bay, Wisconsin 54306-2100

Re: Ness Service Center/2390-002

Dear Ms. Stinson:

Enclosed are the analytical results and chain-of-custody for the samples collected March 29, 1995 and received March 31, 1995. Our lab certification number is 113138300. Also enclosed is our Invoice No. ML265.

Please feel free to call if you have any questions.

Sincerely,

MONTGOMERY WATSON
Analytical Testing Services

Dennis J. Linley
Lab Services Coordinator

Enclosures: As stated

cc: D. Linley
K. Killian

SMT/dsk/GLG
G:\DMGMT\LETTERS\42860220.DOC
L10453

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One Science Court
Madison, Wisconsin
53711

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Serving the World's Environmental Needs

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STANDARD REPORT FOOTNOTES

A1 Elevated quantitation limit due to low sample volume.

A2 Elevated quantitation limit necessary to overcome interference.

A4 Result should be considered estimated due to sample-related problems encountered during analysis.

A11 Sample received past recommended hold time.

A12 Analysis requested past recommended hold time.

A13 Initial analysis performed within hold time; confirmation analysis performed past recommended hold time. Results from repeat analysis are reported.

A14 Initial analysis performed within hold time; necessary dilution performed past recommended hold time. Results from repeat analysis are reported.

A15 Result should be considered estimated; analyte detected in method blank.

A17 Result should be considered estimated as indicated by method QC.

M3 Total analysis performed due to insufficient solid for TCLP extraction.

G1 Result should be considered estimated, concentration exceeds working calibration range.

G2 Elevated quantitation limit due to the concentration of petroleum hydrocarbons in the sample.

G3 Elevated quantitation limit due to the concentration of non-specific hydrocarbons in the sample.

G4 Analyte coelutes with _____; result calculated from calibration standards in a 1:1 ratio of these two compounds.

G5 Sample required extensive cleanup; Endrin Aldehyde is not recovered from these techniques.

G6 Petroleum-type odor detected from this sample.

G7 Elevated quantitation limit due to the concentration of PCBs in the sample.

G8 Result should be considered estimated due to coelution with an additional hydrocarbon product.

G9 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products.

G10 Presence of one or more unidentified peaks eluting earlier than the retention time window.

G11 Presence of one or more unidentified peaks eluting later than the retention time window.

G12 Result is estimated. The method used is a screening procedure for this compound.

G13 Measurement performed using test strips.

G15 n-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from Diphenylamine.

G16 Measurement upon receipt performed using test strips. Adjusted to pH <2.

G17 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products. Final results pending GC/MS confirmation.

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METHOD REFERENCES

	Soil/Groundwater				Wastewater			
Analytes	ICP	Flame	Furnace	CV	ICP	Flame	Furnace	CV
Aluminium	6010	7020	-	-	200.7	202.1	-	-
Antimony	6010	7040	7041	-	200.7	-	204.2	-
Arsenic	6010	-	7060	-	200.7	-	206.2	-
Barium	6010	7080	7081	-	200.7	208.1	208.2	-
Beryllium	6010	7090	7091	-	200.7	210.1	210.2	-
Boron	6010	-	-	-	200.7	-	-	-
Cadmium	6010	7130	7131	-	200.7	213.1	213.2	-
Calcium	6010	7140		-	200.7	215.1	-	-
Chromium, Total	6010	7190	7191	-	200.7	218.1	218.2	-
Cobalt	6010	7200	-	-	200.7	219.1	-	-
Copper	6010	7210	-	-	200.7	220.1	-	-
Iron	6010	7380	-	-	200.7	236.1	-	-
Lead	6010	7420	7421	-	200.7	239.1	239.2	-
Magnesium	6010	7450	-	-	200.7	242.1	-	-
Manganese	6010	7460	-	-	200.7	243.1	-	-
Mercury	-	-	-	7470/7471				245.1
Molybdenum	6010	7480	-	-	200.7	246.1	-	-
Nickel	6010	7520	-	-	200.7	249.1	-	-
Potassium	-	SM3500D	-	-	-	SM3500D	-	-
Selenium	6010	-	7740	-	200.7	-	270.2	-
Silver	6010	7760	7761	-	200.7	272.1	272.2	-
Sodium	6010	SM3500D	-	-	200.7	SM3500D	-	-
Strontium	6010	-	-	-	200.7	-	-	-
Thallium	6010	7840	7841	-	200.7	279.1	279.2	-
Tin	6010	-	-	-	200.7	-	-	-
Titanium	6010	-	-	-	200.7	-	-	-
Vanadium	6010	7910	7911	-	200.7	286.1	286.2	-
Zinc	6010	7950	-	-	200.7	289.1	-	-

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

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Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

METHOD REFERENCES

Compounds	Soil/Groundwater	Wastewater
Alcohol	8015*	8015*
BEXT	8020***	602
DRO	Modified DRO	Modified DRO
GRO	Modified GRO***	Modified GRO
Herbicides	8150	8150
Pesticides	8080	608
Pesticide/PCBs	8080	608
PCBs	8080**	608
PCBs	8080****	608
PCP Screen	8040****	8040****
PNA (GC/MS)	8270	8270
PNA (HPLC)	8310	8310
PVOCs	8020***	8020
SVOCs	8270	8270
TPH	D-3328-78*	D-3328-78*
TRPH	418.1 & 9073	418.1 & 9073
VOCs	8021	8021
VOCs	8010/8020***	601/602
Solids, Total	160.3	160.3

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Organic Chemical Analysis of Water and Wastes", March, 1984.

ASTM, "Annual Book of ASTM Standards", 1990.

Wisconsin DNR Modified 9073 TRPH, PUBL-SW-140, Wisconsin DNR, April 1992.

Wisconsin DNR Modified DRO, PUBL-SW-141, Wisconsin DNR, July 1993.

Wisconsin DNR Modified GRO, PUBL-SW-140, Wisconsin DNR, July 1993.

* With Modifications
** With Modfications for Oil Matrix
*** With Modfications for Soil Gas Matrix
**** With Modifications for Wipe Matrix

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INORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #: L10453-001
Description: HB1 (5'-6')
Sample Date: 29-MAR-95
Receipt Date: 31-MAR-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	6.96	5	0.15	Solid	mg/kg	JB	13-APR-95	
Solids, Total	85.8		0.5	Solid	%		03-APR-95	

Sample #: L10453-002
Description: HB2 (4'-5')
Sample Date: 29-MAR-95
Receipt Date: 31-MAR-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	3.57	1	0.15	Solid	mg/kg	JB	13-APR-95	
Solids, Total	81.7		0.5	Solid	%		03-APR-95	

Sample #: L10453-003
Description: HB3 (4.5'-5'
Sample Date: 29-MAR-95
Receipt Date: 31-MAR-95

Test	Result	Dilution	MDL	Matrix	Units	Analyst	Analysis Date	Footnotes
Lead	4.27	1	0.15	Solid	mg/kg	JB	13-APR-95	
Solids, Total	87.6		0.5	Solid	%		03-APR-95	

Note: Results in mg/kg are reported on a dry weight basis.

MDL = Method Detection Limit
WI Lab Certification ID#: 113138300

Chk'd: DSK App'd: CAW
Date App'd: 4-20-95

MONTGOMERY WATSON
Analytical Testing Services

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GASOLINE RANGE ORGANICS (GRO)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Petroleum Odor	Footnotes
L10453-001	HB1 (5'-6')	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 29-MAR-95						
		Analysis Date: 03-APR-95						
L10453-002	HB2 (4'-5')	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 29-MAR-95						
		Analysis Date: 03-APR-95						
L10453-003	HB3 (4.5'-5'	Gasoline Range Organics	50	10	Solid	mg/kg	Detected	
		Sample Date: 29-MAR-95						
		Analysis Date: 05-APR-95						
L10453-004	METHANOL TRIP BLANK	Gasoline Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 29-MAR-95						
		Analysis Date: 05-APR-95						

Note: Results in mg/kg are reported on a dry weight basis.

Chk'd: [illegible] App'd: CAW
Date App'd: 4.20.95

WI Lab Certification ID#: 113138300

MONTGOMERY WATSON
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PETROLEUMPETROLEUM VOLATILE ORGANIC (PVOC) UNPRES
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Dil	MDL	Matrix	Units	Footnotes
10453-001	HB1 (5'-6')	Benzene	< 5.8	5	5.0	Solid	ug/kg	
		Methyl tert-butyl ether	< 5.8	5	5.0	Solid	ug/kg	
		Ethylbenzene	< 5.8	5	5.0	Solid	ug/kg	
		Toluene	< 5.8	5	5.0	Solid	ug/kg	
		1,2,4-Trimethylbenzene	< 5.8	5	5.0	Solid	ug/kg	
		1,3,5-Trimethylbenzene	< 5.8	5	5.0	Solid	ug/kg	
		m + p-Xylene	< 12	5	10	Solid	ug/kg	
		o-Xylene	< 5.8	5	5.0	Solid	ug/kg	
		Sample Date: 29-MAR-95						
		Receipt Date: 31-MAR-95						
		Analysis Date: 07-APR-95						
		Analyst: AJK						
10453-002	HB2 (4'-5')	Benzene	< 6.1	5	5.0	Solid	ug/kg	
		Methyl tert-butyl ether	< 6.1	5	5.0	Solid	ug/kg	
		Ethylbenzene	< 6.1	5	5.0	Solid	ug/kg	
		Toluene	< 6.1	5	5.0	Solid	ug/kg	
		1,2,4-Trimethylbenzene	< 6.1	5	5.0	Solid	ug/kg	
		1,3,5-Trimethylbenzene	< 6.1	5	5.0	Solid	ug/kg	
		m + p-Xylene	< 12	5	10	Solid	ug/kg	
		o-Xylene	< 6.1	5	5.0	Solid	ug/kg	
		Sample Date: 29-MAR-95						
		Receipt Date: 31-MAR-95						
		Analysis Date: 07-APR-95						
		Analyst: AJK						
10453-003	HB3 (4.5'-5'	Benzene	< 5.7	5	5.0	Solid	ug/kg	
		Methyl tert-butyl ether	31	5	5.0	Solid	ug/kg	
		Ethylbenzene	780	250	5.0	Solid	ug/kg	
		Toluene	370	250	5.0	Solid	ug/kg	
		1,2,4-Trimethylbenzene	5300	500	5.0	Solid	ug/kg	A14, A17
		1,3,5-Trimethylbenzene	1900	250	5.0	Solid	ug/kg	
		m + p-Xylene	2900	250	10	Solid	ug/kg	
		o-Xylene	1300	250	5.0	Solid	ug/kg	
		Sample Date: 29-MAR-95						
		Receipt Date: 31-MAR-95						
		Analysis Date: 07, 12, 13-APR-95						
		Analyst: AJK						

Note: Results in ug/kg are reported on a dry weight basis.

Dil = Dilution
MDL = Method detection Limit
WI Lab Certification ID#: 113138300

Chk'd: BSJ App'd: CAW
Date App'd: 4.20.95

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
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PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10453-001	HB1 (5'-6')	Naphthalene	< 0.33	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	0.33	Solid	mg/kg	
		Fluorene	< 0.066	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	0.033	Solid	mg/kg	
		Anthracene	< 0.033	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	0.066	Solid	mg/kg	
		Pyrene	< 0.033	0.033	Solid	mg/kg	
		Chrysene	< 0.033	0.033	Solid	mg/kg	
		Benzo(a)anthracene	< 0.0033	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	0.0095	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	0.0050	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	0.0062	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	0.011	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	0.012	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	0.33	Solid	mg/kg	

Sample Date: 29-MAR-95
Extract Date: 06-APR-95
Analysis Date: 07-APR-95

Note: Results in mg/kg are reported on a dry weight basis.

WI Lab Certification ID#: 113138300

Chk'd: RSK App'd: CAW
Date App'd: 4.20.95

MONTGOMERY WATSON
Analytical Testing Services

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One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
0453-002	HB2 (4'-5')	Naphthalene	< 0.33	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	0.33	Solid	mg/kg	
		Fluorene	< 0.066	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	0.033	Solid	mg/kg	
		Anthracene	< 0.033	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	0.066	Solid	mg/kg	
		Pyrene	< 0.033	0.033	Solid	mg/kg	
		Chrysene	< 0.033	0.033	Solid	mg/kg	
		Benzo(a)anthracene	< 0.0033	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	< 0.0059	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	< 0.0033	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	< 0.0033	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	< 0.0033	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	< 0.0066	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	0.33	Solid	mg/kg	

Sample Date: 29-MAR-95
Extract Date: 06-APR-95
Analysis Date: 07-APR-95

Note: Results in mg/kg are reported on a dry weight basis.

Lab Certification ID#: 113138300

Chk'd: BJK App'd: GHW
Date App'd: 4.20.95

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Tel: 608 231 4747 • Fax: 608 231 4777

PNA/PAH (HPLC) ORGANIC REPORT
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10453-003	HB3 (4.5'-5'	Naphthalene	< 0.33	0.33	Solid	mg/kg	
		Acenaphthylene	< 0.33	0.33	Solid	mg/kg	
		Acenaphthene	< 0.33	0.33	Solid	mg/kg	
		Fluorene	< 0.066	0.066	Solid	mg/kg	
		Phenanthrene	< 0.033	0.033	Solid	mg/kg	
		Anthracene	< 0.033	0.033	Solid	mg/kg	
		Fluoranthene	< 0.066	0.066	Solid	mg/kg	
		Pyrene	< 0.033	0.033	Solid	mg/kg	
		Chrysene	< 0.033	0.033	Solid	mg/kg	
		Benzo(a)anthracene	0.0057	0.0033	Solid	mg/kg	
		Benzo(b)fluoranthene	< 0.0059	0.0059	Solid	mg/kg	
		Benzo(k)fluoranthene	< 0.0033	0.0033	Solid	mg/kg	
		Benzo(a)pyrene	0.0053	0.0033	Solid	mg/kg	
		Indeno(1,2,3-cd)pyrene	< 0.0033	0.0033	Solid	mg/kg	
		Dibenzo(a,h)anthracene	< 0.0066	0.0066	Solid	mg/kg	
		Benzo(g,h,i)perylene	< 0.0066	0.0066	Solid	mg/kg	
		1-Methylnaphthalene	< 0.33	0.33	Solid	mg/kg	
		2-Methylnaphthalene	< 0.33	0.33	Solid	mg/kg	

Sample Date: 29-MAR-95
Extract Date: 06-APR-95
Analysis Date: 07-APR-95

Note: Results in mg/kg are reported on a dry weight basis.

Chk'd: [illegible] App'd: CAW
Date App'd: 4.20.95

WI Lab Certification ID#: 113138300

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DIESEL RANGE ORGANICS (DRO)
ROBERT E. LEE/NESS SERVICE CENTER
GREEN BAY WI
Project Number: 4286.0220

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Petroleum Odor	Footnotes
L10453-001	HB1 (5'-6')	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 29-MAR-95						
		Extract Date: 05-APR-95						
		Analysis Date: 05-APR-95						
L10453-002	HB2 (4'-5')	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 29-MAR-95						
		Extract Date: 05-APR-95						
		Analysis Date: 05-APR-95						
L10453-003	HB3 (4.5'-5'	Diesel Range Organics	< 10	10	Solid	mg/kg	None	
		Sample Date: 29-MAR-95						
		Extract Date: 05-APR-95						
		Analysis Date: 05-APR-95						

Note: Results in mg/kg are reported on a dry weight basis.

Chk'd: BSK App'd: CAW
Date App'd: 4.20.95

WI Lab Certification ID#: 113138300

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INORGANIC
QUALITY CONTROL REPORT

Project: Robert E. Lee/ Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled: 3/29/95
Date Received: 3/31/95
Date Analyzed: 4/03/95
Analyst: JS

Matrix Spike Results

Compound	Batch Number	%Recovery	Control Limits
Lead	36197	83	77-128% Recovery

Duplicate Results

Compound	Batch Number	Sample Results (%)	DUP Results (%)	% RPD	Control Limits
Lead	36266	231	256	10.3	27
Solids, Total	35899	85.8	85.0	0.9	5.0

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GASOLINE RANGE ORGANICS (GRO)
QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled: 3/29/95
Date Received: 3/31/95
Date Analyzed: 3/31/95
Analyst: AJK

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria.

Method Blank Results

All associated method blanks were below method detection limits.

Water Spike/Water Spike Duplicate

Compound	Batch Number	Water Spike Recovery (%)	Water Spike Dup. Recovery (%)	RPD (%)	Control Limits
GRO #1	36071	119.8	117.5	1.9	80-120% recovery, 20% RPD
GRO #2	36071	98.7	105.0	6.2	80-120% recovery, 20% RPD
GRO #3	36071	93.9	99.2	5.5	80-120% recovery, 20% RPD

Soil Spike Results

Compound	Batch Number	Soil Spike Recovery (%)	Control Limits
GRO #1	36071	117.3	70-140% recovery
GRO #2	36071	102.3	70-140% recovery
GRO #3	36071	102.8	70-140% recovery

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PETROLEUM VOLATILE ORGANIC (PVOC) QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled: 3/29/95
Date Received: 3/31/95
Date Analyzed: 4/7-12/95
Analyst: AJK

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria.

Method Checks

Compound	Batch Number	MC-4/07/95	MC-4/11/95	MC-4/12/95
Benzene	36172	108	92	82
Toluene	36172	106	90	81

Method Blank Results

All associated method blanks were below method detection limits.

Matrix Spike/Matrix Spike Duplicate Results

Compound	MS Recovery Batch Number	MSD Recovery %	RPD %	%	Control Limits
Benzene	36172	89	94	6	63-133% recovery, 25% RPD
Toluene	36172	86	91	5	58-116% recovery, 27% RPD

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PETROLEUM VOLATILE ORGANIC (PVOC) QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled: 3/29/95
Date Received: 3/31/95
Date Analyzed: 4/7-12/95
Analyst: AJK

Surrogate Recoveries

Lab Number	Batch Number	a,a,a-Trifluorotoluene Recovery (%) (PID Detector)	Control Limits
Blank4-07	36172	109	51-116% recovery
Blank 4-11	36172	93	51-116% recovery
Blank 4-12	36172	79	51-116% recovery
L10453-001	36172	84	51-116% recovery
L10453-002	36172	90	51-116% recovery
L10453-003 1/250	36172	98	51-116% recovery
L10453-003 1/500	36172	68	51-116% recovery

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PNA/PAH (HPLC) ORGANIC QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled:: 3/27/95
Date Received: 3/29/95
Date Extracted: 4/06/95
Date Analyzed: 4/07/95
Analyst: CMK

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria.

Method Blank Results

All associated method blanks were below method detection limits.

Method Check/Method Check Duplicate Results

Compound	Batch Number	MC Recovery (%)	MCD Recovery (%)	RPD (%)	Control Limits
Naphthalene	36163	71	N/A	N/A	64-113% Recovery, 27% RPD
Acenaphthylene	36163	77	N/A	N/A	69-108% Recovery, 26% RPD
Acenaphthene	36163	78	N/A	N/A	69-110% Recovery, 24% RPD
Fluorene	36163	82	N/A	N/A	71-116% Recovery, 23% RPD
Phenanthrene	36163	84	N/A	N/A	70-125% Recovery, 24% RPD
Anthracene	36163	79	N/A	N/A	61-123% Recovery, 24% RPD
Fluoranthene	36163	89	N/A	N/A	74-120% Recovery, 19% RPD
Pyrene	36163	95	N/A	N/A	71-141% Recovery, 31% RPD
Benzo(a)anthracene	36163	91	N/A	N/A	72-126% Recovery, 23% RPD
Chrysene	36163	92	N/A	N/A	75-119% Recovery, 34% RPD
Benzo(b)fluoranthene	36163	90	N/A	N/A	73-118% Recovery, 17% RPD
Benzo(k)fluoranthene	36163	89	N/A	N/A	69-115% Recovery, 20% RPD
Benzo(a)pyrene	36163	74	N/A	N/A	44-126% Recovery, 26% RPD
Dibenzo(ah)anthracene	36163	78	N/A	N/A	58-111% Recovery, 26% RPD
Benzo(ghi)perylene	36163	81	N/A	N/A	59-128% Recovery, 20% RPD
Indeno(123cd)pyrene	36163	80	N/A	N/A	56-123% Recovery, 23% RPD

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PNA/PAH (HPLC) ORGANIC QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled:: 3/27/95
Date Received: 3/29/95
Date Extracted: 4/06/95
Date Analyzed: 4/07/95
Analyst: CMK

Matix Spike/Matrix Spike Duplicate Results

Compound	Batch Number	MS Recovery (%)	MSD Recovery (%)	RPD (%)	Control Limits
Naphthalene	36163	105	126(a)	19	64-113% Recovery, 27% RPD
Acenaphthylene	36163	92	124(a)	30(b)	69-108% Recovery, 26% RPD
Acenaphthene	36163	132(a)	231(a)	54(b)	69-110% Recovery, 24% RPD
Fluorene	36163	107	189(a)	56(b)	71-116% Recovery, 23% RPD
Phenanthrene	36163	113	178(a)	45(b)	70-125% Recovery, 24% RPD
Anthracene	36163	108	101	6	61-123% Recovery, 24% RPD
Fluoranthene	36163	137(a)	182(a)	28(b)	74-120% Recovery, 19% RPD
Pyrene	36163	147(a)	193(a)	27	71-141% Recovery, 31% RPD
Benzo(a)anthracene	36163	99	108	8	72-126% Recovery, 23% RPD
Chrysene	36163	112	118	6	75-119% Recovery, 34% RPD
Benzo(b)fluoranthene	36163	100	98	1	73-118% Recovery, 17% RPD
Benzo(k)fluoranthene	36163	98	97	0.7	69-115% Recovery, 29% RPD
Benzo(a)pyrene	36163	103	102	0.2	44-126% Recovery, 26% RPD
Dibenzo(ah)anthracene	36163	91	91	0.8	58-111% Recovery, 26% RPD
Benzo(ghi)perylene	36163	97	97	0.5	59-128% Recovery, 20% RPD
Indeno(123cd)pyrene	36163	95	94	0.9	56-123% Recovery, 23% RPD

(a) Elevated recoveries due to detects of PNAs in sample. Sample L10415-001 was flagged with an "A4" footnote. The other soils associated with this batch were not flagged.

(b) Exceeded control limits. Sample appears nonhomogeneous. Sample L10415-001 was flagged with an "A4" footnote. The other soils associated with this batch were not flagged.

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PNA/PAH (HPLC) ORGANIC QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Green Bay, Wisconsin

Date Sampled:: 3/27/95
Date Received: 3/29/95
Date Extracted: 4/06/95
Date Analyzed: 4/07/95
Analyst: CMK

Surrogate Recoveries

Lab Number	Batch Number	Carbazole (VWD) Recovery (%)	Control Limits	DFBP (VWD) Recovery (%)	Control Limits
RB B/157	36163	90	61-1131% Recovery	96	52-108% Recovery
MC B/157	36163	80	61-113% Recovery	81	52-108% Recovery
L10453-001	36163	86	61-113% Recovery	85	52-108% Recovery
L10453-002	36163	86	61-113% Recovery	87	52-108% Recovery
L10453-003	36163	86	61-113% Recovery	79	52-108% Recovery

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DIESEL RANGE ORGANICS (DRO)
QUALITY CONTROL REPORT

Project: Robert E. Lee/Ness Service Center

Project #: 4286.0220

Location: Sparta, Wisconsin

Date Sampled: 3/29/95
Date Received: 3/31/95
Date Extracted: 4/05/95
Date Analyzed: 4/05/95
Analyst: CMK

Continuing Calibration Verification

Continuing calibration verification standards met acceptable criteria.

Method Blank Results

All associated method blanks were below method detection limits.

Water Spike/Water Spike Duplicate Results

Compound	Batch Number	Water Spike Recovery (%)	Water Spike Dup. Recovery (%)	RPD (%)	Control Limits
DRO	36017	101.4	94.4	7.18	80-120% recovery, 20% RPD

Soil Spike Results

Compound	Batch Number	Soil Spike Recovery (%)	Control Limits
DRO	36017	83.5	60-130% recovery

4286.0220

MONTGOMERY WATSON

CHAIN OF CUSTODY RECORD

ROBERT E. LEE

SPECIAL INSTRUCTIONS:
- [X] PECFA
- [ ] WI LUST
- [ ] ACT 307
- [X] REPORT DRY WT
- [ ] OTHER:

TURNAROUND:
- [X] 2 WEEKS (standard)
- [ ] 1 WEEK
- [ ] 3 DAYS
- [ ] 1 DAY

PROJECT NAME: NESS SERVICE CENTER

PROJECT #: 2390002

CITY: Green Bay STATE: WI

SAMPLER(S): GLENN WILLEMS

COLLECTION DATE	COLLECTION TIME	GRAB / COMP	SAMPLE ID	NO. OF CONTAINERS		GRO	DRO	PVOC	LEAD	PAH + TS		REMARKS	MATRIX (LAB USE ONLY)	LAB NO. (LAB USE ONLY)
3/29/95	12:15	GRAB	HB1 (5'–6')	8		2	2	2	1	1		Field Screen Results <1 ppm	SOIL	10753-01
↓	12:30	↓	HB2 (4'–5')	8		↓	↓	↓	↓	↓		<1 ppm	↓	02
↓	1:00	↓	HB3 (4.5'–5')	8		↓	↓	↓	↓	↓		2548 ppm	↓	03
↓	2:30		METHANOL TRIP BLANK	1		1							↓	04

SPECIAL INSTRUCTIONS:

RECEIVED: [X] INTACT [X] ON ICE TEMP ______ °F

PROJ. MGR.: JOE J. PASQUALUCCI

SUBMIT RESULTS TO CHARLENE STINSON

	SIGNATURE	PRINT NAME	COMPANY / TITLE	DATE	TIME
RELINQUISHED BY:	Glenn Willems	GLENN WILLEMS	ROBERT E. LEE & ASSOCIATES, INC.	3/29/95	4:15
RECEIVED BY:	Bud Hauska #650				
RELINQUISHED BY:					
RECEIVED BY:	Randy Meinhulz	RANDY MEINHUIZ	N. W. Lab Lung [illegible]	3-31-95	8:50

C-O-C No. 011847

NAME OF COURIER: [illegible]

AIRBILL NUMBER: