03-28-228585 Jeffery Property

# Maass, Randall S - DNR

From:

Greve, Rachel M - DNR

Sent:

Thursday, January 06, 2011 2:47 PM

To:

Maass, Randall S - DNR

Subject:

FW: BRRTS Activity 03-28-228585

Attachments: 101115 Boring locations map.pdf; 4039771\_fr GW analytical 101124.pdf; 4040689\_fr potable

well.pdf

Here it is!



Hydrogeologist

South Central Region

Bureau of Remediation and Redevelopment

Wisconsin Department of Natural Resources

(T) phone:

(608) 275-3220

(2) fax:

(608) 273-5610

( ) e-mail:

rachel.greve@wisconsin.gov

From: Paula Richardson [mailto:prichardson@saga-ee.com]

Sent: Wednesday, December 29, 2010 02:32 PM

To: Greve, Rachel M - DNR

Subject: BRRTS Activity 03-28-228585

Good Afternoon Rachel,

I spoke with you back in April regarding the Jeffery Property site in Sullivan (BRRTS Activity 03-28-228585). At that time, I was with RSV Engineering, Inc., who subsequently signed a PECFA agent contract with the Department of Commerce and Mr. Thomas Jeffery. Shortly thereafter RSV split into several entities, one of which was formerly the environmental section of RSV. This portion of the company was purchased by myself and two of my colleagues from RSV, and became Saga Environmental and Engineering, Inc. It took several months to complete the transaction, and Saga became an official company on October 1<sup>st</sup>, 2010. To simplify administration of the Jeffery project, it was put on hold until that time.

In November the site investigation was conducted at the property. Five soil borings (SB101 through SB105) were completed in the approximate locations shown on the attached map. Please note the very small scale on the map. Saga planned to install a boring within the former tank bed, but there is a large juniper tree in that area now. However, the area is adequately characterized as the borings were completed in close proximity to the former tank bed. Groundwater was encountered at about 5 feet in each boring. Unsaturated soils were screened with a PID, but there were no indications of impacts. Groundwater samples were collected from each location and submitted for PVOCs and lead. Groundwater samples were also collected from the onsite potable well and submitted for the same analyses. No parameters were detected above their respective PALs in any sample, and nothing was detected in the sample from the potable well.

Based on the data, Saga believes a low-risk determination and Commerce jurisdiction for the site are appropriate. Saga will summarize site investigation activities and results into a site investigation report and closure request. Please advise as to whether this document should be sent to your attention or to the Department of Commerce.

Please feel free to call me at 920-674-3411 with any questions you may have. I will be in the office the remainder

of the afternoon today, out tomorrow morning and in the field on Friday, but back in the office Monday through Wednesday next week.

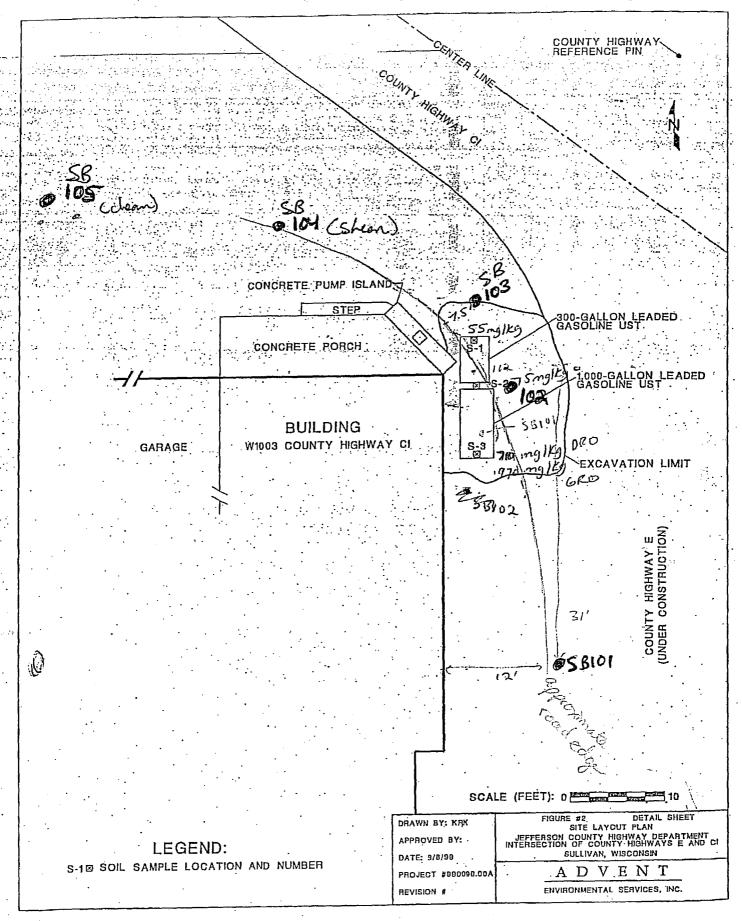
Thank you,



# Paula A. Richardson, P.G.

Vice President/ Hydrogeologist

146 E. Milwaukee Street
Jefferson, WI 53549
Ph. 920-674-3411
Cell 920-605-6073
Fax 920-674-3481
email: prichardson@saga-ee.com





November 24, 2010

Paula Richardson Saga Environmental and Engineering, Inc. 146 E. Milwaukee St. Jefferson, WI 53549

RE: Project: 10-731 JEFFERY PROPERTY

Pace Project No.: 4039771

#### Dear Paula Richardson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alee Her

alee.her@pacelabs.com Project Manager

alle Als

Enclosures





Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

#### **CERTIFICATIONS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4039771

**Green Bay Certification IDs** 

1241 Bellevue Street, Green Bay, WI 54302 California Certification #: 09268CA Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 11888 New York Certification #: 11888 North Carolina Certification #: 503 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 US Dept of Agriculture #: S-76505 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444

**REPORT OF LABORATORY ANALYSIS** 

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







# **SAMPLE SUMMARY**

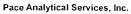
Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4039771

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4039771001	SB101	Water	11/15/10 11:00	11/18/10 09:00
4039771002	SB102	Water	11/15/10 12:00	11/18/10 09:00
4039771003	SB103	Water	11/15/10 13:00	11/18/10 09:00
4039771004	SB104	Water	11/15/10 14:00	11/18/10 09:00
4039771005	SB105	Water	11/15/10 15:00	11/18/10 09:00
4039771006	TRIP BLANK	Water	11/15/10 00:00	11/18/10 09:00







1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

## **SAMPLE ANALYTE COUNT**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 40

4039771

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4039771001	SB101	WI MOD GRO	SES	9	PASI-G
4039771002	SB102	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4039771003	SB103	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4039771004	SB104	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4039771005	SB105	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4039771006	TRIP BLANK	WI MOD GRO	SES	9	PASI-G







# **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4039771

Sample: SB101	01 Lab ID: 4039771001		<b>Lab ID: 4039771001</b> Collected: 11/15/10 11:00 Received			Received: 11	eceived: 11/18/10 09:00 Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual		
WIGRO GCV	Analytica	al Method: WI M	OD GRO								
Benzene	0.42J	ug/L	1.0	0.39	1		11/19/10 10:53	71-43-2			
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/19/10 10:53	100-41-4			
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		11/19/10 10:53	1634-04-4			
Naphthalene	<0.40	ug/L	1.0	0.40	1		11/19/10 10:53	91-20-3			
Toluene	0.85J	ug/L	1.0	0.42	1		11/19/10 10:53	108-88-3			
1,2,4-Trimethylbenzene	< 0.43	ug/L	1.0	0.43	1		11/19/10 10:53	95-63-6			
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/19/10 10:53	108-67-8			
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		11/19/10 10:53	1330-20-7			
a.a.a-Trifluorotoluene (S)	103 %		80-120		1	11/19/10 10		98-08-8	рH		

Date: 11/24/2010 02:42 PM

**REPORT OF LABORATORY ANALYSIS** 

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





1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

# **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

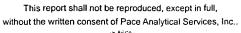
Pace Project No.: 4039771

Sample: SB102	Lab ID:	4039771002	Collected	d: 11/15/10	0 12:00 Received:		/18/10 09:00 N	latrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
WIGRO GCV	Analytical Method: WI MO		OD GRO							
Benzene	<0.39 u	ıg/L	1.0	0.39	1		11/19/10 11:18	71-43-2		
Ethylbenzene	<0.41 ug/L		1.0	0.41	1		11/19/10 11:18	100-41-4		
Methyl-tert-butyl ether	<0.38 ug/L		1.0	0.38	1		11/19/10 11:18	1634-04-4		
Naphthalene	<0.40 ti	ıg/L	1.0	0.40	1		11/19/10 11:18	91-20-3		
Toluene	0.62J u	ıg/L	1.0	0.42	1		11/19/10 11:18	108-88-3		
1,2,4-Trimethylbenzene	<0.43 u	ig/L	1.0	0.43	1		11/19/10 11:18	95-63-6		
1,3,5-Trimethylbenzene	<0.40 u	ıg/L	1.0	0.40	1		11/19/10 11:18	108-67-8		
Xylene (Total)	<1.3 u	ıg/L	3.0	1.3	1		11/19/10 11:18	1330-20-7		
a,a,a-Trifluorotoluene (S)	104 %	6	80-120		1		11/19/10 11:18	98-08-8	pН	
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	010							
Lead, Dissolved	<1.7 ug/L		7.5	1.7	1 .		11/19/10 16:28	7439-92-1		

Date: 11/24/2010 02:42 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 6 of 14







1241 Bellevue Street - Suite 9 Green Bay, WI 54302

(920)469-2436

# **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4039771

Sample: SB103	Lab ID: 4	1039771003	Collected	d: 11/15/10	13:00	Received: 11	/18/10 09:00 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical M	Method: WI Mo	DD GRO						
Benzene	<b>0.50J</b> ug/	/L	1.0	0.39	1		11/19/10 11:44	71-43-2	
Ethylbenzene	<b>0.45J</b> ug/	′L	1.0	0.41	1		11/19/10 11:44	100-41-4	
Methyl-tert-butyl ether	<0.38 ug/	/L	1.0	0.38	1		11/19/10 11:44	1634-04-4	
Naphthalene	<0.40 ug/	′L	1.0	0.40	1		11/19/10 11:44	91-20-3	
Toluene	<b>1.4</b> ug/	′L	1.0	0.42	1		11/19/10 11:44	108-88-3	
1,2,4-Trimethylbenzene	<0.43 ug/	′L	1.0	0.43	1		11/19/10 11:44	95-63-6	
1,3,5-Trimethylbenzene	<0.40 ug/	′L	1.0	0.40	1		11/19/10 11:44	108-67-8	
Xylene (Total)	<1.3 ug/	'L	3.0	1.3	1		11/19/10 11:44	1330-20-7	
a,a,a-Trifluorotoluene (S)	104 %		80-120		1		11/19/10 11:44	98-08-8	pН
6010 MET ICP, Dissolved	Analytical M	lethod: EPA 6	010						
Lead, Dissolved	<1.7 ug/	′L	7.5	1.7	1		11/19/10 16:40	7439-92-1	





# **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

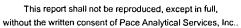
4039771

Sample: SB104	Lab ID: 40397710	004 Collecte	d: 11/15/10	14:00	Received: 11	/18/10 09:00 M	atrix: Water	
Parameters	Results Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: V	VI MOD GRO						
Benzene	<0.78 ug/L	2.0	0.78	2		11/23/10 08:34	71-43-2	
Ethylbenzene	<b>17.3</b> ug/L	2.0	0.83	2		11/23/10 08:34	100-41-4	
Methyl-tert-butyl ether	<0.76 ug/L	2.0	0.76	2		11/23/10 08:34	1634-04-4	
Naphthalene	<b>4.9</b> ug/L	2.0	0.81	2		11/23/10 08:34	91-20-3	
Toluene	2.8 ug/L	2.0	0.83	2		11/23/10 08:34	108-88-3	
1,2,4-Trimethylbenzene	14.1 ug/L	2.0	0.86	2		11/23/10 08:34	95-63-6	
1,3,5-Trimethylbenzene	7.1 ug/L	2.0	0.79	2		11/23/10 08:34	108-67-8	
Xylene (Total)	21.4 ug/L	6.0	2.5	2		11/23/10 08:34	1330-20-7	
a,a,a-Trifluorotoluene (S)	. 152 %	80-120		2		11/23/10 08:34	98-08-8	D3,HS, S7,pH
6010 MET ICP, Dissolved	Analytical Method: E	PA 6010						
Lead, Dissolved	<b>2.0J</b> ug/L	7.5	1.7	1		11/19/10 16:44	7439-92-1	

Date: 11/24/2010 02:42 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 8 of 14









1241 Bellevue Street - Suite 9 Green Bay, WI 54302

(920)469-2436

## **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4039771

Sample: SB105	Lab ID: 4	4039771005	Collecte	Collected: 11/15/10 15:00 Receive			l: 11/18/10 09:00 Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
WIGRO GCV	Analytical N	/lethod: WI M	OD GRO	,						
Benzene	<b>0.45J</b> ug.	/L	1.0	0.39	1		11/19/10 20:14	71-43-2		
Ethylbenzene	2.8 ug	/L	1.0	0.41	1		11/19/10 20:14	100-41-4		
Methyl-tert-butyl ether	<0.38 ug	/L	1.0	0.38	1		11/19/10 20:14	1634-04-4		
Naphthalene	<0.40 ug	/L	1.0	0.40	1		11/19/10 20:14	91-20-3		
Toluene	1.0 ug	/L	1.0	0.42	1		11/19/10 20:14	108-88-3		
1,2,4-Trimethylbenzene	<0.43 ug	/L	1.0	0.43	1		11/19/10 20:14	95-63-6		
1,3,5-Trimethylbenzene	<0.40 ug	/L	1.0	0.40	1		11/19/10 20:14	108-67-8		
Xylene (Total)	<1.3 ug	/L	3.0	1.3	1		11/19/10 20:14	1330-20-7		
a,a,a-Trifluorotoluene (S)	104 %		80-120		1	•	11/19/10 20:14	98-08-8	рН	
6010 MET ICP, Dissolved	Analytical N	Method: EPA 6	010							
Lead, Dissolved	<1.7 ug	/L	7.5	1.7	1		11/19/10 16:48	7439-92-1		

Date: 11/24/2010 02:42 PM







## **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

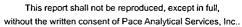
Pace Project No.: 4039771

Sample: TRIP BLANK	nple: TRIP BLANK Lab ID: 4039771006		Collected: 11/15/10 00:00 R			Received: 11	atrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytica	I Method: WI M	OD GRO						
Benzene	<0.39	ug/L	1.0	0.39	1		11/19/10 20:39	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/19/10 20:39	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		11/19/10 20:39	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		11/19/10 20:39	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		11/19/10 20:39	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/19/10 20:39	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/19/10 20:39	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		11/19/10 20:39	1330-20-7	
a,a,a-Trifluorotoluene (S)	105 %		80-120		1		11/19/10 20:39	98-08-8	

Date: 11/24/2010 02:42 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 10 of 14







#### **QUALITY CONTROL DATA**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4039771

QC Batch:

GCV/5925

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples:

4039771001, 4039771002, 4039771003, 4039771004, 4039771005, 4039771006

METHOD BLANK: 386638

Matrix: Water

Associated Lab Samples: 4039771001, 4039771002, 4039771003, 4039771004, 4039771005, 4039771006

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	11/19/10 09:10	
1,3,5-Trimethylbenzene	ug/L	< 0.40	1.0	11/19/10 09:10	
Benzene	ug/L	< 0.39	1.0	11/19/10 09:10	
Ethylbenzene	ug/L	<0.41	1.0	11/19/10 09:10	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	11/19/10 09:10	
Naphthalene	ug/L	< 0.40	1.0	11/19/10 09:10	
Toluene	ug/L	<0.42	1.0	11/19/10 09:10	
Xylene (Total)	ug/L	<1.3	3.0	11/19/10 09:10	
a,a,a-Trifluorotoluene (S)	%	104	80-120	11/19/10 09:10	

LABORATORY CONTROL SAM	PLE & LCSD: 386639		38	36640						
Parameter Units		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.8	20.8	104	104	80-120	.4	20	
1,3,5-Trimethylbenzene	ug/L	20	20.9	20.9	105	105	80-120	.07	20	
Benzene	ug/L	20	20.9	20.8	105	104	80-120	.5	20	
Ethylbenzene	ug/L	20	21.1	21.1	106	105	80-120	.08	20	
Methyl-tert-butyl ether	ug/L	20	21.3	21.4	106	107	80-120	.6	20	
Naphthalene	ug/L	20	19.3	19.9	96	99	80-120	3	20	
Toluene	ug/L	20	21.0	20.9	105	104	80-120	.4	20	
Xylene (Total)	ug/L	60	63.0	62.7	105	104	80-120	.5	20	
a,a,a-Trifluorotoluene (S)	%				101	102	80-120			

MATRIX SPIKE & MATRIX SF	PIKE DUPLICAT	E: 38670	6 MS	MSD	386707							
Parameter	40 Units	039819003 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	0
Parameter	OIIIIS	- resuit		———— ·			76 KEC	76 KeC	Lilling	KPU	KPU	Qua
1,2,4-Trimethylbenzene	ug/L	1450	200	200	1680	1630	119	89	31-178	4	20	
1,3,5-Trimethylbenzene	ug/L	371	200	200	628	608	129	118	66-145	3	20	
3enzene	ug/L	96.7	200	200	357	352	130	128	23-177	1	20	
Ethylbenzene	ug/L	957	200	200	1110	1080	76	60	63-144	3	20	M1
Methyl-tert-butyl ether	ug/L	<3.8	200	200	209	210	104	105	80-120	.7	20	
Naphthalene	ug/L	283	200	200	453	458	85	88	63-140	1	20	
Toluene	ug/L	63.1	200	200	282	281	110	109	53-164	.6	20	
(Ylene (Total)	ug/L	3340	600	600	3910	3770	94	71	41-166	4	20	
a,a,a-Trifluorotoluene (S)	%						111	110	80-120			

Date: 11/24/2010 02:42 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 11 of 14

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





(920)469-2436



**QUALITY CONTROL DATA** 

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4039771

QC Batch:

ICP/4091

Analysis Method:

EPA 6010

QC Batch Method:

EPA 6010

Analysis Description:

ICP Metals, Trace, Dissolved

Associated Lab Samples:

4039771002, 4039771003, 4039771004, 4039771005

METHOD BLANK: 386868

Matrix: Water

Associated Lab Samples:

4039771002, 4039771003, 4039771004, 4039771005

Blank Result Reporting

Parameter

Parameter

Units

Limit

Analyzed Qualifiers

Lead, Dissolved

ug/L

<1.7

7.5 11/19/10 16:20

LABORATORY CONTROL SAMPLE: 386869

Spike

LCS Result

LCS % Rec % Rec Limits

Lead, Dissolved

Lead, Dissolved

Units ug/L

Units

ug/L

Conc. 500

527

105

80-120

Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

386870

MSD

500

386871

MSD

MS MSD

102

% Rec

Max Qual

Parameter

4039771002

Result

<1.7

MŞ Spike

500

Spike Conc. Conc.

MS Result

510

Result 500

% Rec % Rec

Limits 100 75-125 RPD RPD

20

Date: 11/24/2010 02:42 PM

REPORT OF LABORATORY ANALYSIS

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





#### **QUALIFIERS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4039771

#### **DEFINITIONS**

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

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

#### **LABORATORIES**

PASI-G Pace Analytical Services - Green Bay

#### **ANALYTE QUALIFIERS**

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S7	Surrogate recovery outside control limits (not confirmed by re-analysis).
рH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

Date: 11/24/2010 02:42 PM





(920)469-2436



# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4

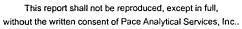
4039771

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4039771001	SB101	WI MOD GRO	GCV/5925		
4039771002	SB102	WI MOD GRO	GCV/5925		
4039771003	SB103	WI MOD GRO	GCV/5925		
4039771004	SB104	WI MOD GRO	GCV/5925		
4039771005	SB105	WI MOD GRO	GCV/5925		
4039771006	TRIP BLANK	WI MOD GRO	GCV/5925		
4039771002	SB102	EPA 6010	ICP/4091		
4039771003	SB103	EPA 6010	ICP/4091		
4039771004	SB104	EPA 6010	ICP/4091		
4039771005	SB105	EPA 6010	ICP/4091		

Date: 11/24/2010 02:42 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 14 of 14









December 20, 2010

Paula Richardson Saga Environmental and Engineering, Inc. 146 E. Milwaukee St. Jefferson, WI 53549

RE: Project: 10-731 JEFFERY PROPERTY

Pace Project No.: 4040689

## Dear Paula Richardson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 11, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely.

Alee Her

alee.her@pacelabs.com Project Manager

alle de

Enclosures





#### Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

## **CERTIFICATIONS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050 Kentucky Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 11888

New York Certification #: 11888 North Carolina Certification #: 503 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 US Dept of Agriculture #: S-76505 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444

**REPORT OF LABORATORY ANALYSIS** 

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





1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436



#### SAMPLE SUMMARY

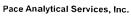
Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4040689

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4040689001	PW-1	Water	12/09/10 09:30	12/11/10 08:35
4040689002	TRIP BLANK	Water	12/09/10 09:30	12/11/10 08:35







1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

# **SAMPLE ANALYTE COUNT**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4040689001	PW-1	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4040689002	TRIP BLANK	WI MOD GRO	SES	9	PASI-G





1241 Bellevue Street - Suite 9 Green Bay, WI 54302

(920)469-2436

# **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4040689

Sample: PW-1	Lab ID: 40406890	001 Collecte	d: 12/09/10	0 09:30	Received: 12	/11/10 08:35 M	atrix: Water	
Parameters	Results Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: V	VI MOD GRO						
Benzene	<0.39 ug/L	1.0	0.39	1		12/13/10 14:51	71-43-2	
Ethylbenzene	<0.41 ug/L	1.0	0.41	1		12/13/10 14:51	100-41-4	
Methyl-tert-butyl ether	<0.38 ug/L	1.0	0.38	1		12/13/10 14:51	1634-04-4	
Naphthalene	<0.40 ug/L	1.0	0.40	1		12/13/10 14:51	91-20-3	
Toluene	<0.42 ug/L	1.0	0.42	1		12/13/10 14:51	108-88-3	
1,2,4-Trimethylbenzene	<0.43 ug/L	1.0	0.43	1		12/13/10 14:51	95-63-6	
1,3,5-Trimethylbenzene	<0.40 ug/L	1.0	0.40	1		12/13/10 14:51	108-67-8	
Xylene (Total)	<1.3 ug/L	3.0	1.3	1		12/13/10 14:51	1330-20-7	
a,a,a-Trifluorotoluene (S)	102 %	80-120		1		12/13/10 14:51	98-08-8	
6010 MET ICP	Analytical Method: E	EPA 6010 Prepa	ration Meth	od: EPA	3010			
Lead	<1.4 ug/L	7.5	1.4	1	12/14/10 14:45	12/16/10 13:34	7439-92-1	



# **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

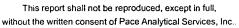
4040689

Sample: TRIP BLANK	Lab ID:	Lab ID: 4040689002		Collected: 12/09/10 09:30 F		Received: 12	2/11/10 08:35 N	Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
WIGRO GCV	Analytica	l Method: WI M	OD GRO							
Benzene	<0.39 t	ıg/L	1.0	0.39	1		12/13/10 15:1	7 71-43-2		
Ethylbenzene	<0.41 ∪	ıg/L	1.0	0.41	1		12/13/10 15:1	7 100-41-4		
Methyl-tert-butyl ether	<0.38 ι	ıg/L	1.0	0.38	1		12/13/10 15:1	7 1634-04-4		
Naphthalene	<0.40 t	ıg/L	1.0	0.40	1		12/13/10 15:1	7 91-20-3		
Toluene	<0.42 ≀	ıg/L	1.0	0.42	1		12/13/10 15:1	7 108-88-3		
1,2,4-Trimethylbenzene	<0.43 ₪	ıg/L	1.0	0.43	1		12/13/10 15:1	7 95-63-6		
1,3,5-Trimethylbenzene	<0.40 u	ıg/L	1.0	0.40	1		12/13/10 15:1	7 108-67-8		
Xylene (Total)	<1.3 ι	ıg/L	3.0	1.3	1		12/13/10 15:1	7 1330-20-7		
a,a,a-Trifluorotoluene (S)	104 9	%	80-120		1		12/13/10 15:1	7 98-08-8		

Date: 12/20/2010 03:52 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 6 of 10







## **QUALITY CONTROL DATA**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

QC Batch:

GCV/6018

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples:

4040689001, 4040689002

METHOD BLANK: 395326

Matrix: Water

Associated Lab Samples: 4040689001, 4040689002

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
,2,4-Trimethylbenzene	ug/L	<0.43	1.0	12/13/10 11:01	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3,5-Trimethylbenzene	ug/L	< 0.40	1.0	12/13/10 11:01	
enzene	ug/L	< 0.39	1.0	12/13/10 11:01	
hylbenzene	ug/L	< 0.41	1.0	12/13/10 11:01	
ethyl-tert-butyl ether	ug/L	< 0.38	1.0	12/13/10 11:01	
phthalene	ug/L	< 0.40	1.0	12/13/10 11:01	
uene	ug/L	< 0.42	1.0	12/13/10 11:01	
lene (Total)	ug/L	<1.3	3.0	12/13/10 11:01	
a,a-Trifluorotoluene (S)	%	102	80-120	12/13/10 11:01	

LABORATORY CONTROL SAM	PLE & LCSD: 395327		39	95328						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.4	19.2	97	96	80-120	.9	20	
1,3,5-Trimethylbenzene	ug/L	20	19.2	19.1	96	95	80-120	.9	20	
Benzene	ug/L	20	19.7	20.1	99	100	80-120	2	20	
Ethylbenzene	ug/L	20	19.7	19.5	98	98	80-120	.7	20	
Methyl-tert-butyl ether	ug/L	20	20.3	20.4	102	102	80-120	.4	20	
Naphthalene	ug/L	20	19.5	19.1	97	96	80-120	2	20	
Toluene	ug/L	20	19.7	19.7	99	99	80-120	.02	20	
Xylene (Total)	ug/L	60	58.7	58.3	98	97	80-120	.7	20	
a,a,a-Trifluorotoluene (S)	%				102	101	80-120			

MATRIX SPIKE & MATRIX SF	PIKE DUPLICAT	E: 39545	7		395458							
			MS	MSD								
	40	040676005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2,4-Trimethylbenzene	ug/L	975	200	200	1230	1150	126	86	31-178	7	20	
1,3,5-Trimethylbenzene	ug/L	137	200	200	344	327	103	95	66-145	5	20	
Benzene	ug/L	<3.9	200	200	208	201	104	101	23-177	3	20	
Ethylbenzene	ug/L	178	200	200	387	369	104	95	63-144	5	20	
Methyl-tert-butyl ether	ug/L	24.8	200	200	221	218	98	97	80-120	1	20	
Naphthalene	ug/L	139	200	200	340	333	101	97	63-140	2	20	
Toluene	ug/L	<4.2	200	200	210	205	105	103	53-164	2	20	
Xylene (Total)	ug/L	287	600	600	898	860	102	95	41-166	4	20	
a,a,a-Trifluorotoluene (S)	%						103	103	80-120			

Date: 12/20/2010 03:52 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 7 of 10







#### **QUALITY CONTROL DATA**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

QC Batch:

MPRP/4888

QC Batch Method:

EPA 3010

Analysis Method:

EPA 6010

Associated Lab Samples: 4040689001 Analysis Description:

6010 MET

METHOD BLANK: 396045

Matrix: Water

Associated Lab Samples:

4040689001

Blank

Reporting

Parameter

Units

Units

Result Limit

Analyzed

Qualifiers

<1.4

7.5 12/16/10 11:26

98

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

396046

Spike

LCS Result

LCS % Rec % Rec

Lead

Lead

Lead

ug/L

Units

ug/L

ug/L

Conc. 500

488

396048

MS

Limits 80-120 Qualifiers

396047

Result

100

MSD

500

MSD

MS MSD

% Rec

Max

RPD RPD Qual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

MS 4040655002 Spike Conc.

500

Spike Conc.

Result Result 580

% Rec 577

% Rec 96

Limits 75-125

.5 20

Date: 12/20/2010 03:52 PM

**REPORT OF LABORATORY ANALYSIS** 

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



(920)469-2436



#### **QUALIFIERS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

#### **DEFINITIONS**

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

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

#### **LABORATORIES**

Date: 12/20/2010 03:52 PM

PASI-G Pace Analytical Services - Green Bay







## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

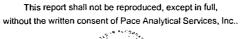
4040689

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4040689001	PW-1	WI MOD GRO	GCV/6018		
4040689002	TRIP BLANK	WI MOD GRO	GCV/6018		
4040689001	PW-1	EPA 3010	MPRP/4888	EPA 6010	ICP/4166

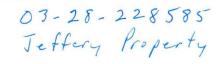
Date: 12/20/2010 03:52 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 10 of 10







# Maass, Randall S - DNR

From:

Maass, Randall S - DNR

Sent:

Monday, January 10, 2011 4:39 PM

To:

'prichardson@saga-ee.com'

Subject: RE: BRRTS Activity 03-28-228585

Hi Paula,

I'm sorry about the delay. The email from Rachel was missing the attachments, so I waited until Rachel got a chance to send them to me and then I was delayed while working on a closure request for tomorrow morning's closure meeting.

The SIR should be sent to me for review before being transferred to Commerce. The attached data suggest that the site will be transferred to Commerce.

Regards,



Randall Maass

Hydrogeologist

Remediation and Redevelopment Program

South Central Region

Wisconsin Department of Natural Resources

(128) phone:

(608) 275-3224

(2) fax:

(608) 273-5610

( ) e-mail: randall.maass@wisconsin.gov

From: Greve, Rachel M - DNR

Sent: Monday, January 03, 2011 8:43 AM

To: Paula Richardson Cc: Maass, Randall S - DNR

Subject: RE: BRRTS Activity 03-28-228585

Hi Paula.

I've recently changed jobs and am now in DNR's Water Use section, so I'm forwarding your question to Randy Maass.

Thanks. Rachel

From: Paula Richardson [mailto:prichardson@saga-ee.com]

Sent: Wednesday, December 29, 2010 02:32 PM

To: Greve, Rachel M - DNR

Subject: BRRTS Activity 03-28-228585

Good Afternoon Rachel,

I spoke with you back in April regarding the Jeffery Property site in Sullivan (BRRTS Activity 03-28-228585). At that time, I was with RSV Engineering, Inc., who subsequently signed a PECFA agent contract with the Department of Commerce and Mr. Thomas Jeffery. Shortly thereafter RSV split into several entities, one of which was formerly the environmental section of RSV. This portion of the company was purchased by myself and two of my colleagues from RSV, and became Saga Environmental and Engineering, Inc. It took several months to complete the transaction, and Saga became an official company on October 1<sup>st</sup>, 2010. To simplify administration of the Jeffery project, it was put on hold until that time.

In November the site investigation was conducted at the property. Five soil borings (SB101 through SB105) were completed in the approximate locations shown on the attached map. Please note the very small scale on the map. Saga planned to install a boring within the former tank bed, but there is a large juniper tree in that area now. However, the area is adequately characterized as the borings were completed in close proximity to the former tank bed. Groundwater was encountered at about 5 feet in each boring. Unsaturated soils were screened with a PID, but there were no indications of impacts. Groundwater samples were collected from each location and submitted for PVOCs and lead. Groundwater samples were also collected from the onsite potable well and submitted for the same analyses. No parameters were detected above their respective PALs in any sample, and nothing was detected in the sample from the potable well.

Based on the data, Saga believes a low-risk determination and Commerce jurisdiction for the site are appropriate. Saga will summarize site investigation activities and results into a site investigation report and closure request. Please advise as to whether this document should be sent to your attention or to the Department of Commerce.

Please feel free to call me at 920-674-3411 with any questions you may have. I will be in the office the remainder of the afternoon today, out tomorrow morning and in the field on Friday, but back in the office Monday through Wednesday next week.

Thank you,



Paula A. Richardson, P.G. Vice President/ Hydrogeologist

146 E. Milwaukee Street Jefferson, WI 53549 Ph. 920-674-3411 Cell 920-605-6073 Fax 920-674-3481 email: prichardson@saga-ee.com

# Maass, Randall S - DNR

From:

Maass, Randall S - DNR

Sent:

Friday, January 21, 2011 2:52 PM

To:

'Paula Richardson'

Subject: RE: BRRTS Activity 03-28-228585

Hi Paula,

If you are in the office next Monday or Wednesday, please give me a call after 10:00. I would like to find out the location of the potable well, the depth of the potable well (if known), and whether the building has a basement. Based on the local topography and the location of the nearby creek, my interpretation is that groundwater flow is westerly, so I also want to discuss the locations of the borings.

Thanks,



Randall Maass

Hydrogeologist

Remediation and Redevelopment Program

South Central Region

Wisconsin Department of Natural Resources

(S) phone:

(608) 275-3224

(3) fax:

(608) 273-5610

( ) e-mail:

randall.maass@wisconsin.gov

From: Paula Richardson [mailto:prichardson@saga-ee.com]

Sent: Wednesday, January 19, 2011 2:46 PM

To: Maass, Randall S - DNR

Subject: RE: BRRTS Activity 03-28-228585

Good Afternoon Randy,

Please find attached the Site Investigation Report and Commerce Jurisdiction Request for the Jeffery Property in Sullivan, WI. Will the electronic version suffice, or will you require a hard copy as well?

Please feel free to call me with any questions you may have.

I will look forward to your response.

Regards,



# Paula A. Richardson, P.G.

Vice President/ Hydrogeologist

From: Maass, Randall S - DNR [mailto:Randall.Maass@Wisconsin.gov]

Sent: Monday, January 10, 2011 4:39 PM

To: Paula Richardson

Subject: RE: BRRTS Activity 03-28-228585

Hi Paula,

I'm sorry about the delay. The email from Rachel was missing the attachments, so I waited until Rachel got a chance to send them to me and then I was delayed while working on a closure request for tomorrow morning's closure meeting.

The SIR should be sent to me for review before being transferred to Commerce. The attached data suggest that the site will be transferred to Commerce.

Regards,



Randall Maass

Hydrogeologist

Remediation and Redevelopment Program

South Central Region

Wisconsin Department of Natural Resources

(室) phone:

(608) 275-3224

(☎) fax:

(608) 273-5610

( e-mail:

randall.maass@wisconsin.gov

From: Greve, Rachel M - DNR

**Sent:** Monday, January 03, 2011 8:43 AM

To: Paula Richardson

Cc: Maass, Randall S - DNR

Subject: RE: BRRTS Activity 03-28-228585

Hi Paula.

I've recently changed jobs and am now in DNR's Water Use section, so I'm forwarding your question to Randy Maass.

Thanks, Rachel

From: Paula Richardson [mailto:prichardson@saga-ee.com]

Sent: Wednesday, December 29, 2010 02:32 PM

To: Greve, Rachel M - DNR

Subject: BRRTS Activity 03-28-228585

Good Afternoon Rachel,

I spoke with you back in April regarding the Jeffery Property site in Sullivan (BRRTS Activity 03-28-228585). At that time, I was with RSV Engineering, Inc., who subsequently signed a PECFA agent contract with the Department of Commerce and Mr. Thomas Jeffery. Shortly thereafter RSV split into several entities, one of which was formerly the environmental section of RSV. This portion of the company was purchased by myself and two of my colleagues from RSV, and became Saga Environmental and Engineering, Inc. It took several months to complete the transaction, and Saga became an official company on October 1<sup>st</sup>, 2010. To simplify administration of the Jeffery project, it was put on hold until that time.

In November the site investigation was conducted at the property. Five soil borings (SB101 through SB105) were completed in the approximate locations shown on the attached map. Please note the very small scale on the map. Saga planned to install a boring within the former tank bed, but there is a large juniper tree in that area now. However, the area is adequately characterized as the borings were completed in close proximity to the former tank bed. Groundwater was encountered at about 5 feet in each boring. Unsaturated soils were screened with a PID, but there were no indications of impacts. Groundwater samples were collected from each location and submitted for PVOCs and lead. Groundwater samples were also collected from the onsite potable well and submitted for the same analyses. No parameters were detected above their respective PALs in any sample, and nothing was detected in the sample from the potable well.

Based on the data, Saga believes a low-risk determination and Commerce jurisdiction for the site are appropriate. Saga will summarize site investigation activities and results into a site investigation report and closure request. Please advise as to whether this document should be sent to your attention or to the Department of Commerce.

Please feel free to call me at 920-674-3411 with any questions you may have. I will be in the office the remainder of the afternoon today, out tomorrow morning and in the field on Friday, but back in the office Monday through Wednesday next week.

Thank you,



Paula A. Richardson, P.G. Vice President/ Hydrogeologist

146 E. Milwaukee Street Jefferson, WI 53549 Ph. 920-674-3411 Cell 920-605-6073 Fax 920-674-3481 email: prichardson@saga-ee.com

I . . .

# PHONE CONTACT

DATE 1-24-11
SITE NAME Jettery Profesty CONTACT NAME Paula Richardson, Saga
The potable well is located near the SE corner of the
building near SB101 but closer to the building Depth
unknown. Building has a basement, 6W may flow around
busement. The only way to get a boring near 5-3, where
concentrations were highest when tanks were removed, is
to cut down a tree. I think that the borings are upgradien
and sidegradient, but SB 10Z is so close to former tanks
that I will not require additional borings. Condition of
USTs when removed suggests release, took place it there
wer one took place long ago. I will transfer to Commerce
- Rondy Maass

# Maass, Randall S - DNR

From:

Maass, Randall S - DNR

Sent:

Wednesday, January 26, 2011 3:28 PM

To:

Weihemuller, Wendy - DNR

Subject:

FW: BRRTS Activity 03-28-228585

Attachments: 110119 Final Jeffery Commerce Jurisdiction Request.pdf

Hi Wendy,

This site can be transferred to Commerce. In addition to transferring the file, please forward this email, because I did not print the attached 59-page SIR.

Thanks,

Randy

From: Paula Richardson [mailto:prichardson@saga-ee.com]

Sent: Wednesday, January 19, 2011 2:46 PM

To: Maass, Randall S - DNR

Subject: RE: BRRTS Activity 03-28-228585

Good Afternoon Randy,

Please find attached the Site Investigation Report and Commerce Jurisdiction Request for the Jeffery Property in Sullivan, WI. Will the electronic version suffice, or will you require a hard copy as well?

Please feel free to call me with any questions you may have.

I will look forward to your response.

Regards,



# Paula A. Richardson, P.G.

Vice President/ Hydrogeologist

From: Maass, Randall S - DNR [mailto:Randall.Maass@Wisconsin.gov]

Sent: Monday, January 10, 2011 4:39 PM

To: Paula Richardson

Subject: RE: BRRTS Activity 03-28-228585

Hi Paula,

I'm sorry about the delay. The email from Rachel was missing the attachments, so I waited until Rachel got a

chance to send them to me and then I was delayed while working on a closure request for tomorrow morning's closure meeting.

The SIR should be sent to me for review before being transferred to Commerce. The attached data suggest that the site will be transferred to Commerce.

Regards,



Randall Maass

Hydrogeologist

Remediation and Redevelopment Program

South Central Region

Wisconsin Department of Natural Resources

(電) phone:

(608) 275-3224

(ﷺ) fax:

(608) 273-5610

(3) e-mail:

randall.maass@wisconsin.gov

From: Greve, Rachel M - DNR

Sent: Monday, January 03, 2011 8:43 AM

**To:** Paula Richardson **Cc:** Maass, Randall S - DNR

Subject: RE: BRRTS Activity 03-28-228585

Hi Paula,

I've recently changed jobs and am now in DNR's Water Use section, so I'm forwarding your question to Randy Maass.

Thanks, Rachel

From: Paula Richardson [mailto:prichardson@saga-ee.com]

Sent: Wednesday, December 29, 2010 02:32 PM

To: Greve, Rachel M - DNR

Subject: BRRTS Activity 03-28-228585

Good Afternoon Rachel,

I spoke with you back in April regarding the Jeffery Property site in Sullivan (BRRTS Activity 03-28-228585). At that time, I was with RSV Engineering, Inc., who subsequently signed a PECFA agent contract with the Department of Commerce and Mr. Thomas Jeffery. Shortly thereafter RSV split into several entities, one of which was formerly the environmental section of RSV. This portion of the company was purchased by myself and two of my colleagues from RSV, and became Saga Environmental and Engineering, Inc. It took several months to complete the transaction, and Saga became an official company on October 1st, 2010. To simplify administration of the Jeffery project, it was put on hold until that time.

In November the site investigation was conducted at the property. Five soil borings (SB101 through SB105) were completed in the approximate locations shown on the attached map. Please note the very small scale on the map. Saga planned to install a boring within the former tank bed, but there is a large juniper tree in that area now. However, the area is adequately characterized as the

borings were completed in close proximity to the former tank bed. Groundwater was encountered at about 5 feet in each boring. Unsaturated soils were screened with a PID, but there were no indications of impacts. Groundwater samples were collected from each location and submitted for PVOCs and lead. Groundwater samples were also collected from the onsite potable well and submitted for the same analyses. No parameters were detected above their respective PALs in any sample, and nothing was detected in the sample from the potable well.

Based on the data, Saga believes a low-risk determination and Commerce jurisdiction for the site are appropriate. Saga will summarize site investigation activities and results into a site investigation report and closure request. Please advise as to whether this document should be sent to your attention or to the Department of Commerce.

Please feel free to call me at 920-674-3411 with any questions you may have. I will be in the office the remainder of the afternoon today, out tomorrow morning and in the field on Friday, but back in the office Monday through Wednesday next week.

Thank you,



Paula A. Richardson, P.G. Vice President/ Hydrogeologist

146 E. Milwaukee Street Jefferson, WI 53549 Ph. 920-674-3411 Cell 920-605-6073 Fax 920-674-3481 email: prichardson@saga-ee.com

Page 1 of 3

Waiting for Closure + Request.

#### Wenzel, Shawn A - COMMERCE

From:

Paula Richardson [prichardson@saga-ee.com]

Sent:

Tuesday, February 08, 2011 10:04 AM

To:

Wenzel, Shawn A - COMMERCE

Subject:

FW: Jeffery Property - 53156-9688-03-A / 03-28-228585

Attachments: 110119 Final Jeffery Commerce Jurisdiction Request.pdf

Good Morning Shawn,

Thanks for your message this morning regarding the Former DJ's Tavern site. I look forward to your response on the closure request and appreciate the timely review.

Kristi Prindle informed me this morning that you will be the project manager for the Jeffery Property site, but that the file has not been transferred from the WDNR yet. I have attached an electronic copy of the Site Investigation Report and Commerce jurisdiction request I sent to Randy Maass last month to get you started. Please feel free to call me with any questions you may have regarding the site following your review. I am planning on preparing a closure request for the site within the next few weeks.

Regards,



#### Paula A. Richardson, P.G.

Vice President/ Hydrogeologist

From: Paula Richardson

Sent: Wednesday, January 19, 2011 2:46 PM

To: 'Maass, Randall S - DNR'

Subject: RE: BRRTS Activity 03-28-228585

Good Afternoon Randy,

Please find attached the Site Investigation Report and Commerce Jurisdiction Request for the Jeffery Property in Sullivan, WI. Will the electronic version suffice, or will you require a hard copy as well?

Please feel free to call me with any questions you may have.

I will look forward to your response.

Regards,



#### Paula A. Richardson, P.G.

Vice President/ Hydrogeologist

From: Maass, Randall S - DNR [mailto:Randall.Maass@Wisconsin.gov]

**Sent:** Monday, January 10, 2011 4:39 PM

To: Paula Richardson

Subject: RE: BRRTS Activity 03-28-228585

Hi Paula.

I'm sorry about the delay. The email from Rachel was missing the attachments, so I waited until Rachel got a chance to send them to me and then I was delayed while working on a closure request for tomorrow morning's closure meeting.

The SIR should be sent to me for review before being transferred to Commerce. The attached data suggest that the site will be transferred to Commerce.

Regards,



Randall Maass

Hydrogeologist

Remediation and Redevelopment Program

South Central Region

Wisconsin Department of Natural Resources

(22) phone:

(608) 275-3224

(雪) fax:

(608) 273-5610

(=') e-mail:

randall.maass@wisconsin.gov

From: Greve, Rachel M - DNR

Sent: Monday, January 03, 2011 8:43 AM

**To:** Paula Richardson **Cc:** Maass, Randall S - DNR

Subject: RE: BRRTS Activity 03-28-228585

Hi Paula,

I've recently changed jobs and am now in DNR's Water Use section, so I'm forwarding your question to Randy Maass.

Thanks, Rachel

**From:** Paula Richardson [mailto:prichardson@saga-ee.com]

Sent: Wednesday, December 29, 2010 02:32 PM

To: Greve, Rachel M - DNR

Subject: BRRTS Activity 03-28-228585

Good Afternoon Rachel,

I spoke with you back in April regarding the Jeffery Property site in Sullivan (BRRTS Activity 03-28-228585). At that time, I was with RSV Engineering, Inc., who subsequently signed a PECFA agent contract with the Department of Commerce and Mr. Thomas Jeffery. Shortly thereafter RSV split into several entities, one of which was formerly the environmental section of RSV. This portion of the company was purchased by myself and two of my colleagues from RSV, and became Saga Environmental and Engineering, Inc. It took several months to complete the transaction, and Saga became an official company on October 1<sup>st</sup>, 2010. To simplify administration of the Jeffery project, it was put on hold until that time.

In November the site investigation was conducted at the property. Five soil borings (SB101 through SB105) were completed in the approximate locations shown on the attached map. Please note the very small scale on the map. Saga planned to install a boring within the former tank bed, but there is a large juniper tree in that area now. However, the area is adequately characterized as the borings were completed in close proximity to the former tank bed. Groundwater was encountered at about 5 feet in each boring. Unsaturated soils were screened with a PID, but there were no indications of impacts. Groundwater samples were collected from each location and submitted for PVOCs and lead. Groundwater samples were also collected from the onsite potable well and submitted for the same analyses. No parameters were detected above their respective PALs in any sample, and nothing was detected in the sample from the potable well.

Based on the data, Saga believes a low-risk determination and Commerce jurisdiction for the site are appropriate. Saga will summarize site investigation activities and results into a site investigation report and closure request. Please advise as to whether this document should be sent to your attention or to the Department of Commerce.

Please feel free to call me at 920-674-3411 with any questions you may have. I will be in the office the remainder of the afternoon today, out tomorrow morning and in the field on Friday, but back in the office Monday through Wednesday next week.

Thank you,



Paula A. Richardson, P.G. Vice President/ Hydrogeologist

146 E. Milwaukee Street
Jefferson, WI 53549
Ph. 920-674-3411
Cell 920-605-6073
Fax 920-674-3481
email: <u>prichardson@saga-ee.com</u>



#### State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott Walker, Governor Cathy Stepp, Secretary Lloyd L. Eagan, Regional Director South Central Region Headquarters 3911 Fish Hatchery Road Fitchburg, Wisconsin 53711-5397 Telephone 608-275-3266 FAX 608-275-3338 TTY 608-275-3231

February 14, 2011

File Ref: 03-28-228585

Mr. Tom Jeffery W1003 County Highway CI Palmyra WI 53156

SUBJECT: Transfer of your file: Jeffery Property, W1003 County Highway CI

Dear Mr. Jeffery:

This letter is to notify you that the Department of Natural Resources has an open file regarding contamination at the above site, and that this file is being transferred to the Department of Commerce. Commerce staff will make the decision with regard to closure.

The State of Wisconsin divides the jurisdiction for sites contaminated by petroleum storage tank systems between the DNR and the Department of Commerce (Commerce). This is based on statutory definitions of high, medium and low risk sites. Under this statute, oversight of sites falling under the definition of "low or medium risk" are the responsibility of Commerce rather than our agency. Your consultant has advised us that your site falls under the definition of "low or medium risk". As such, further reviews of submittals and all technical assistance will need to be provided by staff at Commerce. Thank you for the efforts you have made to date to address the contamination.

All future contacts regarding this site should be directed to Commerce at (608) 266-8516. Correspondence should be directed to this address:

WI Department of Commerce PO Box 8044 Madison WI 53707-8044

Please include both your PECFA claim number, if you have one, and your DNR ID# on all correspondence.

Sincerely,

Wendy Weiherhuller Program Assistant

Remediation & Redevelopment

Telephone: (608) 275-3212

Cc: File

Paula Richardson RSV Engineering





February 22, 2011

RECEIVED
FEB 28 2011
ERS DIVISION

Mr. Shawn Wenzel
Wisconsin Department of Commerce – PECFA Bureau
Environmental & Regulatory Services Division
P.O. Box 8044
Madison, Wisconsin 53708-8044

RE: Closure Request

Jeffery Property at W1003 County Road CI

Palmyra, Wisconsin

Commerce #53156-9688-03 BRRTS#03-28-228585

#### Dear Mr. Wenzel:

Saga Environmental and Engineering, Inc. (Saga) is pleased to present this closure request summarizing environmental site investigation at the above referenced site (site) and justification for case closure. RSV Engineering, Inc. (RSV) was contacted by Mr. Thomas Jeffery in May 2010 regarding a need to have some environmental investigation completed at his property due to the historic presence of a leaking leaded gasoline underground storage tank (UST). RSV determined that based on the history of the site as a gasoline marketer, the site would be eligible for Petroleum Environmental Cleanup Fund (PECFA) reimbursement of costs incurred for site investigation. Subsequently, RSV entered into a PECFA agent contract agreement with Mr. Jeffery. Following execution of that contract, but before RSV was able to initiate site investigation activities, RSV underwent a series of reorganizations that concluded with RSV selling off the majority of its assets and book of business to the environmental division. The environmental division was purchased by former RSV employees and became Saga Environmental and Engineering, Inc.

Following completion of the transition to the new company, Saga notified the Department of Commerce of the name change and assured continuity of the project. It took several months to complete the transition of assets and contracts, and Saga became the new owner of the former RSV contracts on October 1<sup>st</sup>, 2010. To simplify administration of the Jeffery project, it was put on hold until that time.

#### SITE HISTORY

Mr. Thomas Jeffery inherited the subject property from his parents, who operated the site as a general store and gas station for approximately 40 years, prior to 1972. In 1999 the Jefferson County Highway Department widened the intersection of County Roads E and CI adjacent to the property and at that time discovered two USTs: one 300-gallon and one 1,000-gallon leaded gasoline tank. The tanks were removed and a tank closure assessment was completed by Advent Environmental Services

Oregon Office: 31960 SW Charbonneau Drive #101 Wilsonville, OR 97070 telephone: 503.694.6960 Wisconsin Office: 146 East Milwaukee Street #120 Jefferson, WI 53549 telephone: 920.674.3411 (Advent) at that time (Attachment A). During the tank closure assessment, soil samples were collected from the soils surrounding the tank systems at a depth of approximately 8 feet below ground surface (bgs) and submitted for laboratory analysis of gasoline range organics (GRO) and diesel range organics (DRO). Results of soil samples collected were generally below the Wisconsin Administrative Code (WAC) ch NR 746 generic residual contaminant level (RCL) of 100 mg/kg for GRO or DRO. However, the concentrations of GRO and DRO detected in the soil sample collected from the south end of the tank bed (S-3) exceeded the RCL at concentrations of 970 and 710 mg/kg, respectively. No groundwater samples were collected at that time. However, it should be noted that the depth to groundwater observed at the site in the fall of 2010 was approximately 5 feet bgs; therefore, the 1999 laboratory analytical results from the soil samples may not have been representative of only soil conditions, but may have been more representative of a combination of soil and groundwater conditions at that time.

Following receipt of the analytical results, the Jefferson County Highway Department contacted the Wisconsin Department of Natural Resources (WDNR) to notify them of the contamination and the WDNR subsequently contacted Mr. Jeffery to notify him of his responsibility to investigate further.

#### **2010 SITE INVESTIGATION**

#### **Field Activities**

Saga mobilized a Geoprobe drill rig to the site on November 15, 2010 to conduct soil borings in the area where contamination had previously been detected. Saga completed five soil borings at the site at the approximate locations shown on the attached map (Attachment B), each to an approximate depth of ten feet bgs. Soil samples were collected continuously, soil descriptions were logged by a registered professional geologist, and unsaturated samples were screened for volatile organic vapors using a photoionization detector (PID) for possible laboratory analyses. Soil boring logs and abandonment forms are included as Attachment C.

Saga had planned to install a boring within the former tank bed, however, the drill rig could not access that area as a large juniper tree occupies that area now. However, the area is adequately characterized as the borings were completed in close proximity to the former tank bed (please note the very small scale on the map). As noted above, groundwater was encountered at about 5 feet bgs in each boring. Soils logged in the borings generally consisted of sand and silt. Based on PID readings and visual and olfactory observations, there were no indications of impacts in the unsaturated zone. Therefore, no soil samples were collected. Groundwater samples were collected from each location and submitted for petroleum volatile organic compounds (PVOCs) and dissolved lead (Attachment D). Groundwater samples were also collected from the onsite potable well and submitted for the same analyses.

#### **Investigation Results**

No PVOCs or dissolved lead were detected above their respective WAC ch. NR140 enforcement standards (ESs) in any groundwater sample collected, and no PVOCs or dissolved lead were detected in the water sample collected from the potable well (Table 1 and Attachment D). The concentration of lead detected in the groundwater sample collected from soil boring SB104 slightly exceeded the WAC



ch. NR140 preventive action limit (PAL) of 1.5  $\mu$ g/L at a concentration of 2.0  $\mu$ g/L. In addition, benzene was detected at 0.5  $\mu$ g/L (equal to the benzene PAL) in the groundwater sample collected from soil boring SB103. Benzene was not detected in the groundwater sample collected from soil boring SB104. However, the sample was diluted due to matrix interference and the detection limit exceeded the PAL. No other parameters exceeded their respective PALs in the groundwater samples collected from the site.

Free product was not observed at any time during site investigation activities.

Shallow groundwater flow in the vicinity of the subject property is expected to be west, toward an unnamed creek, based on local topography. However, as the on-site building has a basement and groundwater is shallow, the basement and its foundation drain sump would be expected to impede or capture groundwater flow to the west in the former tank bed area. Therefore, although no explicitly downgradient groundwater samples have been collected, it would be expected that any petroleum-related contamination originating in the former tank bed area would stagnate in the area immediately surrounding the former tank bed, which has been adequately characterized.

#### **VAPOR INTRUSION**

On December 16, 2010, the WDNR released the final version of its new guidance entitled *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin*. The purpose of the guidance document is to identify the conditions where assessment of the vapor intrusion pathway at contaminated sites is necessary. Considerations to be included in an evaluation of whether the potential for a vapor intrusion pathway may exist include: volatility of contaminants, potential for degradation/sorption in the vadose zone, contaminant concentration, distance to structures, building structure, competence of foundation, presence of utilities and preferential flow paths, etc.

In particular, at petroleum-impacted sites where no petroleum odors have been detected, the guidance states that vapor intrusion can be ruled out at most sites based on the presence of 5 feet (in the horizontal and vertical direction) of clean, unsaturated soil between the residual petroleum and the building, as long as the following conditions are not present:

- Free-phase product that has the potential for off-gassing vapors underlies a building or is within 30 feet, horizontally or vertically, of a building foundation.
- Petroleum contaminated soils with the potential for off-gassing vapors are within 5 feet or less of a building foundation.
- Benzene concentration in groundwater underlying a building is  $>1000 \mu g/L$  and there is less than 20 feet of unsaturated soil between the groundwater and the building foundation.
- Groundwater contaminated with petroleum product above WAC ch. NR140 PAL is entering a building or in contact with the building's foundation, or is in water intercepted by the building's foundation drain system, including sumps.
- Petroleum vapors are present that may migrate from the petroleum source and move through preferential pathways (sewer lines, fractured bedrock, etc.) into a building.

If none of these criteria are present, the investigator can assume that the necessary 5 feet of clean, aerated soil are present and rule out the vapor intrusion pathway. None of the conditions listed above



from the guidance are present at the site. Therefore, the vapor intrusion pathway is not considered a pathway of concern and does not need additional evaluation.

#### CONCLUSIONS AND RECOMMENDATIONS

Based on current site investigation data, only low-level residual groundwater contamination below NR 140 ESs remains at the site. Historical concentrations of GRO and DRO detected in saturated soil samples were likely representative of a combination of soil and groundwater conditions at that time. As more than a decade has elapsed since the soil samples were collected and the source of contamination has been removed, the moderately permeable sands and silt at the site coupled with the shallow depth to groundwater would be expected to be conducive to natural attenuation of petroleum-related contaminants in the subsurface by aerobic degradation and dispersion. Therefore, the residual, low-level (below the ES) groundwater contamination remaining at the site would be expected to be reduced to non-detectable levels within a reasonable timeframe. Consequently, Saga has determined that no further investigation or remediation is necessary at the site, and requests site closure at this time. A Commerce Case Close Out Form is included as Attachment E.

\* \* \*

Should you have any questions regarding the information in this document, please contact the undersigned at 920-674-3411.

Sincerely,

Saga Environmental and Engineering, Inc.

Pare Ridor

Paula A. Richardson, P.G

Vice President/ Hydrogeologist

**Enclosures:** 

Table 1

Attachments A through E



#### TABLE 1 GROUNDWATER ANALYTICAL SUMMARY JEFFERY PROPERTY PALMYRA, WI

Concentrations in µg/L

				Volatile	Organic Com	oounds (VOC	s; µg/L)			
Sample ID	Date	Benzene	Ethylbenzene	Toluene	Xylenes	Methyl tert-butyl ether	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	Lead, Dissolved (µg/L)
					Code NR 140					
	40 PAL	0.5	140	200	1,000	12	9	-	10	1.5
NR <sup>2</sup>	140 ES	5	700	1,000	10,000	60	48	30	100	15
			***		Monitoring We					
SB101	11/15/2010	0.42	<0.41	0.85	<1.3	<0.38	<0.43	<0.40	<0.40	
SB102	11/15/2010	<0.39	<0.41	0.62	<1.3	<0.38	<0.43	<0.40	<0.40	<1.7
SB103	11/15/2010	<u>0.50</u>	0.45 J	1.4	<1.3	<0.38	<0.43	<0.40	<0.40	<1.7
SB104	11/15/2010	<0.78	17.3	<0.76	21.4	<0.76	14.1	7.1	4.9	<u>2.0</u>
SB105	11/15/2010	0.45	2.8	1.0	<1.3	<0.38	<0.43	<0.40	<0.40	<1.7
				Pota	ble Well Sam	ole				
PW-1	12/9/2010	<0.39	<0.41	<0.42	<1.3	<0.38	<0.43	<0.40	<0.40	<1.4

#### Notes:

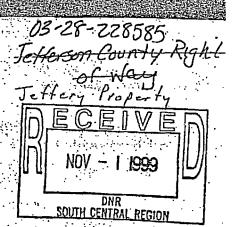
0.50 : Concentration meets or exceeds NR 140 PAL.

μg/L: Micrograms per liter. PAL: Preventive Action Limit. ES: Enforcement Standard.

<0.20 : Analyte not detected above limit of detection shown.

# ATTACHMENT A Advent Environmental Services Tank Closure Assessment

Advent
Environmental
Services, Inc.



Site Assessment Report for Underground Storage Tank Closure

Jefferson County
Highway Department Project

Intersection of County Highways E and Cl (right of way) Sullivan, Wisconsin Jefferson County Advent Project No. 990090.00

BRRTS Unique I.D. #03-28-228585

Prepared for Mr. Randy Kuhl
Jefferson County Highway Department

October 1999

Advent Environmental Services, Inc.

October 28, 1999

Mr. Randy Kuhl 631 N. Watertown Road Jefferson, WI 53549

Re:

Site Assessment Report for Underground Storage Tank (UST) Closure, Jefferson County Highway Department Project, Intersection of County Highways E and Cl (right of way), Sullivan, Wisconsin

Advent Project No. 990090.00.

Dear Mr. Kuhl:

Advent Environmental Services, Inc., has prepared a Site Assessment Report for Underground Storage Tank Closure for the Jefferson County Highway Department project located at the intersection of County Highways E and Cl. Gasoline range organic (GRO) and diesel range organic (DRO) concentrations were detected in soil samples collected from beneath the 1,000-gallon and 300-gallon leaded gasoline underground storage tanks (USTs). Laboratory analysis revealed GRO and DRO concentrations in excess of the Wisconsin Department of Natural Resources (WDNR) site investigation guideline of 10 ppm. Advent notified the WDNR of this release on August 27, 1999. Advent recommends investigating the extent of this petroleum release.

Advent has submitted this report to the Wisconsin Department of Natural Resources (WDNR) at the following address:

Ms. Marilyn Jahnke
Remediation and Redevelopment Program
WDNR – South Central District
3911 Fish Hatchery Road
Fitchburg, WI 53711-5397

If you have any questions or concerns, please call me at (414) 371-5026, ext. 3028.

Sincerely.

Ken Kuehn

Geologist - Mequon Office

CC: Ms. Marilyn Jahnke, WDNR Remediation and Redevelopment Program 990090r0a.doc



#### Site Background Information

The underground storage tank (UST) systems were located in the Jefferson County Highway right of way and fall under the jurisdiction of the Jefferson County Highway Department. The UST systems were located at the southwest corner of the intersection of County Highways E and Cl. Sullivan, Wisconsin (NW1, SE1, Sec. 34, T.6N., R.16E.). The area is located in the Jefferson County right of way adjacent to a residential/commercial building. (See Figure 1.) The site is surrounded by residential and commercial properties.

One 1,000-gallon leaded gasoline UST and one 300-gallon leaded gasoline UST were located in the Jefferson County right-of-way. These USTs were used for retail-sales of gasoline in the past, at the adjacent property. (See Figure 2.) The USTs were not registered with the Wisconsin Department of Commerce (WDCOM).

#### Tank Activities and Excavations

Advent provided closure assessment services for the removal of one 1,000-gallon leaded gasoline UST and one 300-gallon leaded gasoline UST on August 12, 1999. Copies of the Checklist for Tank Closure (Form ERS-8951) and the Underground Flammable/Combustible Liquid Storage Tank Inventory (Form ERS-7437) are included in Appendix A. The original forms were submitted to WDCOM by Inspector Bill Shane of the Wisconsin Department of Commerce-Area 4. The certified site assessor was Mr. Ken Kuehn (certification number 41561) of Advent. The certified remover/cleaner was Mr. Ricky Klebenow (certification number 41650) of Advent.

#### Tank Cleaning and Disposal 🚕

The USTs were cleaned on-site by removing the side portion of the tanks and scraping the inside of the tanks. All tank sludge material generated was transferred into one 55-gallon drum. After cleaning, the USTs were labeled and and left on-site for the Jefferson County Highway Department to dispose of as scrap.

#### Surplus Product Management

No surplus water or petroleum product was encountered during the UST cleaning process.

#### Tank Sludge Management

Approximately 25 gallons of waste sludge material consisting of leaded gasoline, water, and inorganic solids was generated at the site from cleaning the USTs. This material was placed into one 55-gallon drum and is pending approval for disposal by WRR Environmental Services Co., Inc., Eau Claire, Wisconsin. (See Appendix B.)

#### Site Location

See Figure 1.

#### Site Layout Plan

See Figure 2.

#### Visual Inspection

The ambient air temperature was 83<sup>0</sup>F with partly cloudy skies at the time of the USTs' closure assessment. The USTs were located in a common tank bed beneath sand and gravel in the Jefferson County right of way near the southwest corner of the intersection of County Highways E and Cl. (See Figure 2.) No unanticipated USTs were encountered in the excavation.

The depth of the UST excavation was approximately 6 feet below ground surface (bgs). One to two feet of overburden was removed from above the USTs. Petroleum soil odor and staining were observed in soil samples collected from beneath the USTs. The native soil type encountered was brown fine to medium silty sand with some gravel. Freestanding water was observed in the excavation at a depth of approximately 8 feet bgs.

There were numerous holes observed in the USTs ranging from 1 millimeter to 6 centimeters in size. The 1,000-gallon leaded gasoline UST was 3.5 feet in diameter by 7.5 feet long. The 300-gallon leaded gasoline UST was 3 feet in diameter by 5 feet long.

The piping consisted of fill pipes directly above the USTs. The product feed pipes went to a concrete pump Island located approximately 2 feet from the 300-gallon UST. The pump dispenser was not present at the time of the UST closures. The piping was in good condition, and no holes were observed.

#### Soil Sampling and Field Screening Results

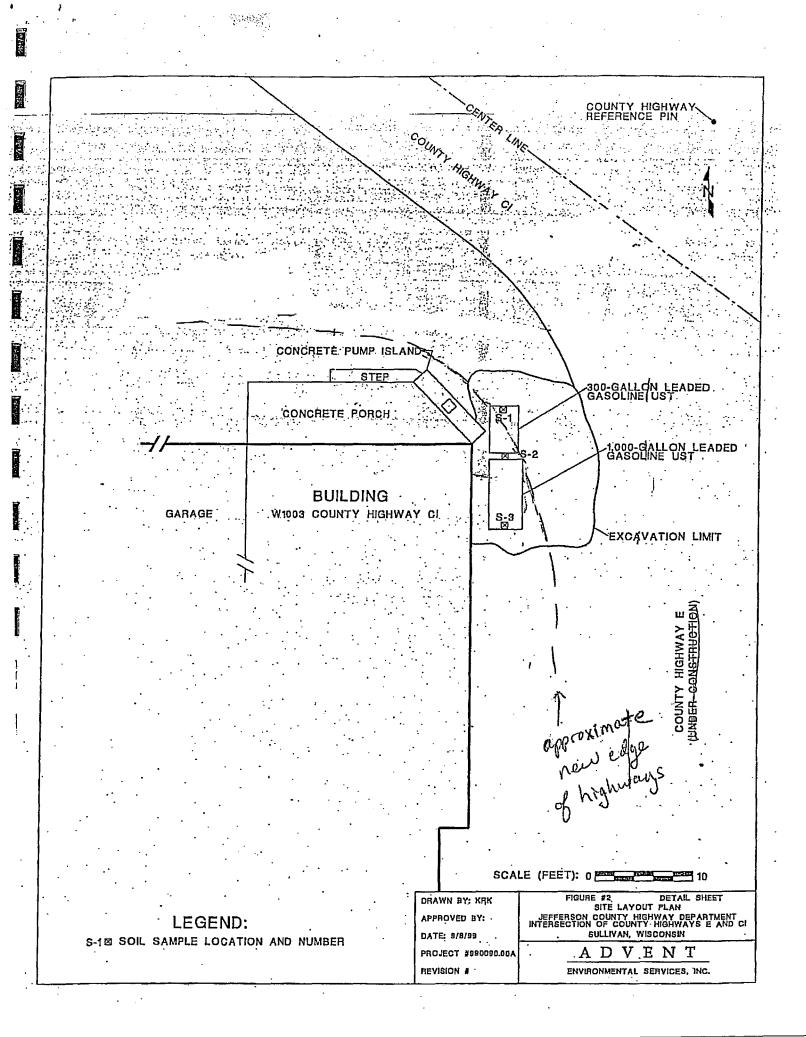
To assess the leaded gasoline USTs systems, Advent collected a total of three soil samples from beneath the USTs. All soil samples collected were analyzed for gasoline range organics (GROs) and diesel range organics (DROs). A description of standard sampling and field screening techniques is included in Appendix C. The results of laboratory analyses are summarized in Table 1.

#### Lab Results

GROs and DROs were detected in all three of the soil samples (S-1 to S-3) analyzed. The concentrations ranged from 8.9 parts per million (ppm) to 970 ppm. Laboratory reports and chain of custody are included in Appendix D.

#### Conclusion and Recommendations

Gasoline range organic (GRO) and diesel range organic (DRO) concentrations were detected in soil samples collected from beneath the 1,000-gallon and 300-gallon leaded gasoline underground storage tanks (USTs). Laboratory analysis revealed GRO or DRO concentrations in excess of the Wisconsin Department of Natural Resources (WDNR) site investigation guideline of 10 ppm in all three samples. Advent notified the WDNR of this release on August 27, 1999. Advent recommends investigating the extent of this petroleum release.



### APPENDIX A

Checklist for Tank Closure (Form ERS – 8951) and Underground Flammable/Combustible Liquid Storage Tank Inventory (Form ERS – 7437)

#### Complete one form for CHECKLIST FOR TANK CLOSURE RETURN COMPLETED CHECKLIS each site closure. CHECK ONE: Wisconsin Department of Commerce MUNDERGROUND ERS Division Bureau of Storage Tank Regulation The information you provide may be used for secondary purposes P. O. Box 7837 Privacy Law, 15.04 FOR PORTIONS OF THE FORM THAT Madison; WI 53707-7837 DO NOT APPLY, CHECK THE N/A BOX BELOW DENTIFICATION: (Please Print) Indicate whether closure is for: | Jank System | - Tank Only 2. Owner Name NTERSECTION OF COUN Site Street Address (not P.O. Box) Village OA. 3. Closure Company Name (print) Closure Company Street Address DUENT ENUIRUN MENTAL Closure Company City, State, Zip Code Closure Company Telephone No. (include area code); 4141 771-502 Assessment Company Street Address, City, State, Zip Code Name of Company Performing Closure Assessment 1.0. BOX 271 MERUCY WI 53098-VEST ENVIRONMENTAL SE elephone No. (include area code). . Certified Assessor Name (print) -Assessor Certification No. Tank ID#-Temp: Closure Closure in Place Closure: -: Tank Capacity Contents\* : Closure Assessmen 000 Indicate which product: Diesel; Leaded; Unleaded; Fuel Oil; Gasohol; Aviation Fuel; Kerosene; Premix; Waste/Used Motor Oil; Flammable/Combustible Hazardous Waste; Chemical (indicate the chemical name(s) CAS number(s) : Other Written notification was provided to the local agent 15 days in advance of closure date. All local permits were obtained before beginning closure. Check applicable box at right in response to all statements in Sections B-E. Inspector B. TEMPORARILY OUT OF SERVICE Verified Verified Written inspector approval of temporary closure obtained, which is effective until (provide date) 1. Product Removed a. Product lines drained into tank (or other container) and resulting liquid removed, AND ..... c. All product removed to bottom of suction line, OR 2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped. ...... 3. All product lines at the islands or pumps located elsewhere are removed and capped, OR ...... 5. Vent lines left open. ..... 6. Inventory form filed indicating temporary closure. CLOSURE BY REMOVAL Product from piping drained into tank (or other container). 2. Piping disconnected from tank and removed. ...... 3. All liquid and residue removed from tank using explosion proof pumps or hand pumps. 4. All pump motors and suction hoses bonded to tank or otherwise grounded. 5; Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures remove NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF 6. Vent lines left connected until tanks purged. 7. Tank openings temporarily plugged so vapors exit through vent. 8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F

Tank removed from excavation after PURGING/INERTING, placed on level ground and blocked to

prevent movement.

CLO	SURE BY REMOVAL (continued)	Remover Inspector NA
		Verified Verified
	OTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER	AY DN DO
C	ONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE	FO Hage 2000 FOR WALE OF A
12.	ank vent hole (1/8 in uppermost part of tank) installed proprio moving the tank from site:	NAME OF THE PARTY
13.45	orm ERS-7437 or ERS-8731 filed by owner with the Dept. of Commerce indicating closure by removal.	
	SURE IN PLACE 都会的一种企业,这个是一种企业的企业的企业的企业,是一个企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企	
/ NO	OTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF	
7.7	HE DEPARTMENT OF COMMERCE OR LOCAL AGENT	
<b>2</b> 1. Pr		Y ON O
. 2./Fij 圖: 3. All	I liquid and residue removed from tank using explosion proof pumps or hand pumps.	
A. All	pump motors and suction hoses bonded to tank or otherwise grounded.	Jy : [in :   fi :   fi
	Il pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed	
	OTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH HE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT. ABOVE GRADE.	
	The control of the state of the state of the control of the state of the state of the control of	TY FIN WITH TO
. 7. Ta	ink openings temporarily plugged so vapors exit through yent.	IY IN II II
		IY DN D D
9. Ta		
10. So	ant line disconnected or removed.	
12. Inv	/entory form filed by owner with the Department of Commerce indicating closure in place	Yalliamillamillamillamillamillamillamill
	URE ASSESSMENTS	
	DIE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO COMM 10.	
	dividual conducting the assessment has a closure assessment plan (written) which used as the basis for their work on the site.	
MA) ISL	points of obvious contamination exist?	[ H H
2. DO	points of obvious contamination exist?	
4. Wa	es a field screening instrument used to pre-screen soil sample locations?	
5. Wa	as a closure assessment omitted because of obvious contamination?	
6 Wa	s the DNR notified of suspected or obvious contamination?	$M \stackrel{\text{\tiny AM}}{\sim} M \stackrel{\text{\tiny D}}{\sim} M$
	ency, office and person contacted:	Field Instrument Test
F. METH		en el en
₩ √Z Edu	uctor Or Diffused Air Blower	•
	uctor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet	t above ground.
	fused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.	
Dry	lice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the g	
٧ ابليد	ice evaporated before proceeding.	la danish disept.
ED	TGas (CO/2 or N/2) <u>NOTE</u> : INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. TH TERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.	IE TANK MAY NOT BE
	s introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite	e the vent.
Gas	s introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device g	rounded.
	ik atmosphere monitored for flammable or combustible vapor levels. librate combustible gas indicator. Drop tube removed prior to checking almosphere. Tank space monitore	ed at hottom, middle and
	per portion of tank #Readings of 10% of less of the lower flammable range (LEL) obtained before removing	
G. NOTE	SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW	
	I have to the men deto	
H REMO	VER/CLÉANER/INFORMATION // /////////////////////////////////	
/	11 11 1606 - 1 11 MM MILES - 111 - 1 11 11 11 11 11 11 11 11 11 11	000
KICK Remo	YKKUDDAW FILL KRUWS	1 0 5/0 5/9
	over Name (print) Remover Signature Remover Certification No.	Date Signed
I. INSPE	OTOR INFORMATION	
1511	11 5/14/15	36265
inspector	and the first of the first of the control of the first of	spector Certification No.
18	9 Bellin 19 19 19 19 19 19 19 19 19 19 19 19 19	PSY 3.26
國DID#F0	or Location Where inspection Performed Inspector Telephone Number	ate Signed - 5 - 61.10 - 1.24

		RGROUND	• • • •	Send Completed Form To: Department of Commerce
teg Obj#:		OMBUSTIBLE LIQ ANK INVENTORY	UID · · ·	Bureau of Storage Tank Regulation P.O. Box 7837
The second secon	"Information Required B	v Section 101.142. Wis.	Stats.	Madison, WI 53707-7837
inderground tanks in Wisconsin that he im is reeded for each tank. Send each egistered this tank by submitting a form	th completed form to the ag	e petroleum or regulate rency designated in the	d substances top right com	must be registered. A separate a er.: Have you previously
egistered this tank by submitting a form	? Tyes Mo If yes,	are you correcting/upd	aling informat	ion only? 🗌 Yes 🔲 No
his registration applies to a lank that is (ch	eck one)		Visite And And	Fire Department providing fire
In Use New y Installed	Closed - Tank Removed	Ownership Materials new owner:	Change (Indica name in block 2	
Abardoned with Product Abardoned without Product (empty).	Temporary Out of Service  Abandon with Water	e - Provide Date:		DTOWN OF TOOM
DENTIFICATION (Please Print)				A A Albert Comment of the Comment of
If County Stock E		3. Count Ho	Lucy	Site Telephone Number
	Town of State	Zip Code	7.00	County
Soll Ven	Malling Addres	5m 5	3 <i>137</i>	JeHerson
efferson County High		. Woolrock	SZ	Telephone Number (920) 723-138/
Sity DVIIIage 0	Toxo of State	Zio Code	110	County.
3 Freyrous Name	Previous site at	Idress if different than #1	> <i>Y</i> : <i>J</i> -2/	1. Vetterson
NH		NI	<b>1</b>	
a site of NA	Facility ID #	NA	Cı	istomer ID#: NA
	Jukhown	5. Ta	nk Capacity (ga	illons): 1,000
D. LAND OWNER TYPE (check one)	eased Federal Own	sed Munici	cal [	] Other Government
Private State	☐ Tribal Nation		<u></u>	
OCCUPANCY TYPE (check one)  Gas/Hatail Sales  Bulk Storage			Indústrial	School Residential
Agricultural Backup or Emerg	pency Genérator Ott	ner (Specify!)	ion   Ovenii	Protection?   Yes   No
Bare Steel	<del></del>	Sacrificial And	des Spill C	ontainment? Yes No
☐ Other (specif		₩ N/A	Tank [	Double Walled? Yes No
Primary Tank teak detection method inventing control and tightness testing.	Πın	utomatić tänk gauging terstitial monitoring		Groundwater monitoring Uapor monitoring
filan - tank gauging tonly for tanks of 1.0	00 galtons or less). S	tatistical Inventory Recond	nn i	Unknown
(Bare State) Coated S	eel Unknown	Sacrificial Anod	53 .   1	e Double Walled? Yes No
Other (specify) -		X N/A		
Suche: nicing with check valve at tank	surized piping with ** A.   Suction piping with ch	ack valve at pump and ins	pectable	Not needed if waste oil
Piping Leak Detection Method (used if p	ressurized or check valve at to	ank): 🔲 SIR 🔲 Ti	phiness testing of required	Electronic line leak monitor
Vapor Recovery/Stage II CARB #:			<del>·</del>	
Fibergiass (Morrent, or previous	MT Flexible s product if tank now empty	Operational - Pro	vide Date (mo/d	ay/yr):
Ciesel	Leaded Emply	Unleaded Sand/Gravel/S	===	el Oil Gasohol
Other (Specify): [ Waste I)sed Motor OI	Chemical	. Kerosene	Avi	
If chosen, this tank is NOT PECFA eligible.	Indicale chemical name and nu	nber) Geo Latitude:	14-1	Geo Longitude: 14
Init Tank Closed, Abandoned or Out of Se	rvice, give date	Has a site assessment	been complet	ed (see reverse side for details)
AUXUST 1	2,1959	Yes No	· •	
wner or Operator Name (please print):	efferson H	khuse	Indicate whe	
gar cover (10	anda Kuhl	3	Owner or	r Operator
County rep. Rand	K.A.		Date Signed	8/12/99
Refer to comments on reverse si	de of form.			

Reg Obj#:  Underground tanks in Wisconsin that ha from is needed for each tank. Send each egistered this tank by submitting a form	FLAMMABLE/CC STORAGE TA Information Required By ave stored or currently store th completed form to the ag	petroleum or regulated ency designated in the	Stats. I substances mi top right corner	Have you previously
This registration applies to a lank that is (cf In use Newly Installed	d for secondary purposes. (Prince one): Closed - Tank Removed Closed - Filled with Inent	vacy Law, s. 15.04 (1)(m)  Ownership ( Materials new owner n	Change (Indicate	Fire Department providing fire coverage where tank is located:
Abandoned with Product Abandoned without Product (empty)	Temporary Out of Service Abandon with Water	e - Provide Date:		Town of ROME
	Town of: State	Canty Hwy	CI	Site Telephone Number (970) 723-139/
SULLIVAN  2. Tank Owner Name	Mailing Address	5 15 7/3		Telephone Number
EFFERSON CTY HWY DE		ST Wash Cock	-57	1920,723-1391
- TE GERAGIAT.	Town of: State		49	JEFFENSON
3 Previous Name	Previous site at	Idress if different than #1		
<b>3.</b> Sit ≥ 10 ±	Facility ID #.	<del> </del>	Cust	amer ID #:
Tank Age (age or date installed):	UNIKNOW	5. Ta	nk Capacity (gallo	ins): 300
D. LAND OWNER TYPE (check one)  Cour'y Federal Private State  COCUPANCY TYPE (check one)			pal 🔲	Other Government
ZesiPata I Sales ☐ Bulk Storage		rcantile/Commercial [	Industrial	School Residential
Tank Construction.	· _	Cathodic Protect		rotection? Yes No
	glass Reinforced Plastic Comp		rent Spin Cor	ntainment? Yes No uble Walled? Yes No
Linec .Date) Other (special Primary Tank leak detection method Invertory control and lightness testing Manual tank gauging fonly for tanks of 1.0	·	utomatic tank gauging terstitlal monitoring tatistical Inventory Recond	iliation (SIR)	☐ Groundwater monitoring ☐ Vapor monitoring ☑Unknown
Piping Construction:  Bare Size:  Fiberglass  Other (specify)	tee! Unknown    N/A	Cathodic Protection Sacrificial Anode Impressed Curre	es Pipe	Double Walled? . 🗌 Yes 🖂 No
Primary Piping System Type: Pres	surized piping with A.   Suction piping with ch	auto shutoff; B. [] alarm o eck valve at pump and ins	or C.  flow rest	rictor Hunknown  Not needed if waste oil
Plping Leak Detection Method. (used if   Groundwater monitoring   Vapor mo	pressurized or check valve at t	ank): SIR Tig	htness testing t required	Electronic fine teak monitor
Vapor Recovery/Stage II CARB #:	☐ Flexible	Operational - Prov		1/4
Ficergiass Other (specify): TANK CONTENTS (Current, or previous)	s groduct if tank now empty	)		
Othe: 'Specify):Waste'Used Motor Oil	Leaded Empty Chemical Indicate chemical name and nur	Unleaded Sand/Gravel/Sl Skerosene Dher)	☐ Fuel ( urry* ☐ Unkn ☐ Aviati	own* Prembi
If choses, this tank is NOT PECFA eligible.	·	Geo Latitude:	1.	d (see reverse side for details)
If Tank Closed, Abandoned or Out of S colday/yr): &-(2-		Yes \ \ No	been complated	o (see lavalse side for details)
wher or Operator Name (please print):	PT. (RANDY K		Indicate wheth	er: Operator
PERCASON CTY HWY DE	11 . 11 10	UH-J	Date Signed	- 17-00
County sep. Ran	· · · · · · · · · · · · · · · · · · ·		7	1077
Refer to comments on reverse s	ue oi torm,		•	•

SB 104 (Shear)

CONCRETE PORCH

CONCRETE PUMP ISLAND

BUILDING -

W1003 COUNTY HIGHWAY

SCALE (FEET): 0 E

DRAWN BY: KAK

APPROVED BY: . DATE: 9/8/99 . .

PROJECT #980090.00A REVISION # 1

FIGURE #2 DETAIL SHEET
SITE LAYOUT PLAN
JEFFERSON COUNTY HIGHWAY DEPARTMENT
INTERSECTION OF COUNTY HIGHWAYS E AND CI
SULLIVAN, WISCONSIN

ADVENT ENVIRONMENTAL SERVICES, INC.

LEGEND: S-1 SOIL SAMPLE LOCATION AND NUMBER

### ATTACHMENT C

Soil Boring Log and Borehole Abandonment Forms

State of Wisconsi	1
Department of Na	tural Resources

#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

			Rou			Wasiewaier m/Revelopme				t 🔲									
							<del>L</del>	_							Page	<u>.</u>	of _	1	
Facili	ty/Proj		me Corv	Pa	pert			Licer	ise/Per	mit/M	onitorii	ng Nun	nber		g Num	ber - 10	7	•	
First	g Drill	ed By:	Nam	e of crew	chief (first	1 5 4								Date Drilling Completed Drilling  \[ \begin{align*}     \frac{1}{m} & \frac{1}{d} & \frac{5}{d} & \frac{2}{y} & \frac{1}{y} & \frac{1}{y} \]  \[ \frac{1}{m} & \frac{1}{m} & \frac{5}{m} & \frac{2}{m} & \frac{1}{m}					
WI U	nique \	Well N	lo.	DNR WE		Well Name		Final	Static	Water Feet N		Surfac	e Elev	ation _Feet	MSL	Borch	ole Di	ameter inches	
Local State	Grid C Plane _ 1/4 of	-		stimated:  N Section	) or B	oring Locatio	m □ .E	Los	Lat	0 1	11	Local			N		Feet	□ E t□ W	
Facili	ty ID				Tell	rson	C	ounty C		Civit	Town	City/o	r Villa	ge ITZ~	1				
San	ple अद		Elace)		Satt/D	ock Description	· ~~		ĺ					Soil	Prope	rties	<u> </u>	1	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface		And Ge	ologic Origin h Major Unit	For		USCS	Jraphic Og	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
رح	9 8		- 1 - 2 - 3 - 4	Str. 11-8 brown Very Str.	ining SAN N. Fin	•	, yellov ediren	vish.			152	0.0 0.0	-5		-				
2 cs	910		-5 -6 -7 -8 -9	8'-11 gray odor End		r(ML), own, we achine	light.		ነ ከ	S CITE BY 5'-10'			-					Samp GW G Procs naph	le er + Holir
I here	by cen	ify th	at the	informatic	on on this	form is true	and corre	ct to th	ne bes	t of m	y knov	vl <b>e</b> dge				·		L	
Signat		P	2		<u>``</u>			Firm		cea			wì	NOV	mı	vila	il.	+ Ever	,
This f	orm is	autho	rized b	y Chapters	281, 283,	289, 291, 29	2, 293, 29	5, and 2	99, W	is. Sta	ts. Co	npletic	n of th	uis for	m is m	andato	ry. Fa	ilure to file	

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

2 60 Lown, very moist, no oder or staining of sold from sond, wet sp no oder or staining of 6'-8' SILT (m) traff from				Rou	ite To:			astewater Revelopme													
Boring Drilled By: Name of error whief (first, lists) and Firm  Pent Name   Caupugi   Int St. 2010   Int I St. 2010   Composed   Int I St. 2010   Int I St. 201																	Page	<u></u>	of _	1	
Borning Drilled By: Name of crew chief (first Jass) and firm Inhibates: Cross Jan.  Final Drilled By: Name of crew chief (first Jass) and firm Inhibates: Cross Jan.  Final Drilled By: Name of crew chief (first Jass) and firm Inhibates: Cross Jan.  Final Drilled By: Name of crew chief (first Jass) and firm Inhibates: Cross Jan.  Final Drilled By: Name of crew chief (first Jass) and firm Inhibates: Cross Jan.  Final Drilled By: Name of crew chief (first Jass) and firm Inhibates: Cross Jan.  Final Drilled By: Name of crew chief (first Jass) and firm Inhibates: Cross Jan.  Final Drilled By: Name of crew chief (first Jass) and firm Inhibates: Cross Jan.  Freet MSL.  Feet MSL.  F	Facili	ity/Proj			(-	) (C) (Q A	ر بار			Licer	ise/Per	mit/Mo	onitorir	ıg Nun	nber	Borin	g Num		a	****	•
Fine Ch - Side . En View mean led					e of cr	ew chief	(first/li	st) and Fi	rm									Drillir	ng Me		•
Sample   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil Properties   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil Properties   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil Properties   S	Firm:	On	- S	ide.	En	.viro	nne	worl		mmddyyyy min ddyyy							<u> </u>	i .	-		
Sample  Sample  Boll Fracility ID  South Code  South C				{		<del></del>	{			rinal _	Static			_		_Feet			_		_
Tacility ID  County Code  Sample  Bay ID  Soil/Rock Description  And Geologic Origin For Each Major Unit  Soil/Rock Descriptio	Local State	Grid C Plane_	)rigin	□ (e:	stimated	_N,	or Bori	ng Locatio	n 🗆 E	1	at		, n	Local	Grid I					□ E	,
Sample  Sample  Soil/Rock Description  And Geologic Origin For Each Major Unit  Soil Properties  Soil Proper	Facili		-	1/4 of	Section		, T	_N, R_					Town	City/o	F r Villa	eet 🗀	S _		Feet	t W	
Soil/Rock Description And Geologic Origin For Each Major Unit  Soil/Rock Description And Geol				1 -		Je	Hec	son			_					ran					,
CS 60  -1 Co-0.5 TOPSOIL, Sit w/said  derk brown, moist, trace  rootlets, no odor or staining  0.5'-5' SILT (ML), light  brown, Very moist, no  odor or staining  2 60  5'-6' SAND (SP), brown,  fine to medium sand, wet SP  no odor or staining  CS 60  6'-8' SILT (ML), right brown,  wet, no odor or staining  8'-9' CLAY (CL), light  grayish brown, wet, no odor or  Staining  8' 9'-10' SILT (ML) light  CL  9  9  9-10' SILT (ML) light  CL  9  9  9-10' SILT (ML) light  CL	_ <u>2su</u>		र्भ	Set surface)		5	ioil/Rocl	c Descriptio	on						ي		Tope	rues			
CS 60  -1 Co-0.5 TOPSOIL, Sit w/said  derk brown, moist, trace  rootlets, no odor or staining  0.5'-5' SILT (ML), light  brown, Very moist, no  odor or staining  2 60  5'-6' SAND (SP), brown,  fine to medium sand, wet SP  no odor or staining  CS 60  6'-8' SILT (ML), right brown,  wet, no odor or staining  8'-9' CLAY (CL), light  grayish brown, wet, no odor or  Staining  8' 9'-10' SILT (ML) light  CL  9  9  9-10' SILT (ML) light  CL  9  9  9-10' SILT (ML) light  CL	ber Type	ih Ati vered	S	h in F		Ar					U	ğ	ram	(FID	pressiv	ant cant	명보	icity		)/ ments	
CS 60  -1 Co-O.S TOPSOIL, Silt culsold  derk brown, moist, trace  roothets, no odor or staining  O.S'-S' SILT (ML), light  brown, Very moist, no  odor or staining  -3  -3  -3  -4  -5'-6' SAND (SP), brown,  fine to medium sand, wet SP  no odor or staining  no odor or staining  -6'-8' SILT (ML), light brown,  wet, no odor or staining  wet, no odor or staining  -7  -7  -7  -7  -7  -8'-9' CLAY (CL), light  grayish brown, wet, no odor or  staining  -8  -9'-10' SILT (ML) light  CL	Num	Leng	Blow	Q E								ខ្លុំខ្លុំ	Wel Ding	PID/	Com Strei	Mois Cont	Liqu	Plast Inde	P 20	52	
CS 60  -2 CS'-S'SILT(ML), light ML brown, very moist, no odor or staining  -3 CS-S'  -3 CS-S  -4 SY-6' SAND(SP), brown, -5 fine to medium sand, wet SP no odor or staining -6 CS-S' SILT (ML), light brown, wet, no odor or staining  -7 CLAY(CL), light  -7 Grayish brown, wet, no odor or Staining  -8 CS-10' SILT (ML) light  -7 Staining  -8 CS-10' SILT (ML) light  -7 CLAY(CL), light  -7 Staining -8 CS-10' SILT (ML) light -7 CLAY(CL)					0-	0,5	TOP.	SOIL,	silt	u/sa	rd										
2 60 -6 STUT (ML), light ml is a color or staining ml is a color or st	I	1,0		-1	/13	other	ts, no	odor o	or sta	unin				0-3	.5						
2 60 -6 SAND(SP), brown,  -5 fine to medium sand, wet SP  no oaler or staining  6'-8' SILT (me), light brown,  wet, no odor or staining  8'-9' CLAY(CL), light  grayish brown, wet, no odor or  Staining  8 9'-10' SILT (m) light  CL	CS			_ 2	O.	5'-5	SIL	T(ML)	), liegh	Jt.	1		ارا	0.	ט						
2 60 -6 SAND(SP), brown,  -5 fine to medium sand, wet SP  no oaler or staining  6'-8' SILT (me), light brown,  wet, no odor or staining  8'-9' CLAY(CL), light  grayish brown, wet, no odor or  Staining  8 9'-10' SILT (m) light  CL				_ ~	60	, 74M	very	) mois	it, no				5.2	2.5-	-5					ļ	
2 60 no order or staining  6'-8' SILT (ml), light brown,  wet, no order or staining  8'-9' CLAY(CL), light  grayish brown, wet, no order or  Staining  8' 9'-10' SILT (ml) light  CL				-3		בפיר ני	ארב ז			•			(		0						
2 60 no order or staining  6'-8' SILT (ml), light brown,  wet, no order or staining  8'-9' CLAY(CL), light  grayish brown, wet, no order or  Staining  8' 9'-10' SILT (ml) light  CL				ں ا																	
2 60 no order or staining  6'-8' SILT (ml), light brown,  wet, no order or staining  8'-9' CLAY(CL), light  grayish brown, wet, no order or  Staining  8' 9'-10' SILT (ml) light  CL				Γ'	15	'-6'	SAN	UD/SP	) bro	ω <b>Λ</b> ,						,				1	
2 60 6'-8' SILT (ML), Fight brown, Wet, no odor or staining ML is grayish brown, wet, no odor or staining Staining Staining			-	-5	tu	ve to	med	lium e	sand,	wet	SP										
Ust, no odor or staining ML is grayish brown, wet, no odor or staining Staining Staining Staining Staining	2	1.0		١,	N	00	er o	r sta	ining		-	101									
grayish brown, wet no odor or staining  8 / 9'-10' SULT (MI) light CL	CS	-		) b	پ	et, n	o ode	rors	Hairin	4	ML	1	=								
8 / 9'-10' SULT (MI) light CL =		الاسا		_7	/a	8'-9 ravist	'CLI	4YCCL	), light			7	11								
brownish gray, wet, no  gloder or staining ML  Sample  GW 600				~	V 2	POLIN I	<u>")</u>					<i>2</i>	=						•	<b>;</b> 	
-9 odor or staining ML = Sample				-81	lor	7'-10 man is	' 51L	T (ML	.), ligh	4	CL	ري	=							, ا	11.
				_9	od	or o	r str	inino	et, No i	•	ML	6			i					Same	er .
OVOCs+																				0,000	· <b>+</b>
-10 End of Boring @ 101				-10	En	d of	Bori	14 @	101		-		_							naph	Holene
(cael						v														(e	ael
I hereby certify that the information on this form is true and correct to the best of my knowledge.			ify th	at the	inform	ation or	this fo	rm is true	and corn	Firm			y knov	vledge	<u>-</u>					· · · · · · · · · · · · · · · · · · ·	
This form is newtonized by Chapters 281, 283, 280, 291, 292, 293, 295, and 299. Wis State Completion of this form is mandatory. Failure to file			poe	<u>~</u>	<u> </u>				<del></del>	<u> </u>	···· (	,					_	04		0	

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98 Route To: Watershed/Wastewater Waste Management Remediation/Revelopment 🛛 Other 🔲 License/Permit/Monitoring Number Boring Number Facility/Project Name ]efter 3B103 Boring Drilled By: Name of crew chief (first last) and Firm Date Drilling Started Date Drilling Completed Drilling Method Last Name: Kaipugi First Name: TONY (reopeopl vironme Final Static Water Level Surface Elevation DNR Well ID No. Feet MSL Feet MSL Local Grid Origin (estimated: ) or Boring Location . Local Grid Location ΠE 1/4 of Section Long Feet□ W 1/4 of Feet I S Facility ID Civil Town/City/ or Village County Code Soil Properties Sample Depth in Feet (Below ground surface) Length Att, & Recovered (in) Soil/Rock Description Blow Counts Number and Type And Geologic Origin For Plasticity Index uscs Graphic Log Well Diagram Each Major Unit 311 Asphalt 3"-81 SAND (SP), brown, SP fine to medium Sand, very moist, no odor or 0-2 60 CS 0.0 60 こととし Staining a @ 51 West 60 60 8'-10'SILT (ML), light grayish brown, wet, no octor or staining Sample GW for procs + naphtholine (each End of Boring @ 101 I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Saca Environmental + Engineering

State of Wisconsin Department of Natural Resources

#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

			Rou	te To:		-	astewater   Revelopment	_			· 🗆									
																Page		of _	1	
Facility/			me _p	Pc	מספת	ربار			Licen	se/Per	mit/Mo	mitoria	ıg Nur	nber		g Num				_
Boring I First Name				e of crev	v chief (	first le	ist) and Firm				g Start				g Com	pleted	Drilli	ng Mei		-
Firm: (	)n -	- S	ide	En	virey	m'	ntal		Final Static Water Level							10			opl	<b></b>
WI Uniq			_1	_	/ell ID 1	_ 1	Well Name		Final	Static	Water Feet N		Surfa	ce Eler		MSL		$\neg$	ameter nches	
Local Gr State Pla	rid Or ne	igin	□ (ex	timated:	ס ( <u>□</u> א,	r Bori	ng Location E	1	1	_at	0		Local	Grid I		n I N			ΠE	_
Facility 1	4 of _		1/4 of	Section		<u>T</u>	_N, R	IC:	Lon unity C		lCivit	Town	City/o	F	eet 🗆				W	_
					Je	ffer	son				5.112		116		ran				7	<b>-</b>
Sampl		<b>!</b> 1	erface)		Sc	il/Rock	: Description							<u> </u>	Soil	Prope	rties	I	<u> </u>	
Number and Type Length Att.	) pg	Blow Counts	Depth in Feet (Below ground surface)			i Gcolo	gic Origin For Isjor Unit			CS	<u>,</u> ,,	H	P.	Compressive Strength	当世	_	aity		Sants	
Number and Type Length A	Recovered	Blow	Depth Gelow							USC	Graphic Log	Well Diagram	PID/FID	Streng	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
				3"	gran	rel		•		·	<u> </u>									-
١ .			- 1	311-	101	Si	ND(SP livem Sa t, no or	),b	M	,			0-2	.5						
	20			4774	L 10	me	luem Sa	med,	, , ,			,	0,	b						
10	00		<del>-</del> 2	Sta	jnin	-e <sub>1</sub>	, NO OF	L94	<i>U</i> 1			سعة ا		_						
	1		- 3			J						r1:	25-	-3				ļ		
	-			·						3			0.0	þ						
			-4																	
	ı										l .i								}	
	$\neg$		-2	رھ	5'	wet	•				-									
2 6	0		-6								-10	111								
	,0		4								2-,-5	1								
	ļ		-1					•			7									
			~8	@	Q1-	<b>ኇ</b> . \$	Some	hla	ck		9									
			_	C1	ا سراء	nei i	n satur	aitu	d		2 6								Sam	ple
	Ì		_4	5	2nel	J			•			111							600	ple for s+ Holiney each
			Jn.									=							6.500	5+
	7		- 10	End	00	Birci	M @ 10			•									naph	the contract
					lan se	Abic F-	in term			na bee			.10-2-						(	east
Signature	_	y ini	at the	miorma (7)	uon on	uns 10	rm is true and		Firm							0				
		-0	<u> </u>		700		0.001.000.00				ja .							**	-2017	
this form	nav	resu	lt in fo	rfeiture :	of betwe	en \$10	9, 291, 292, 29 and \$25,000, o	r impr	isoume	eut for	up to	one ye	ar, dep	endin	g on th	e progr	त्या व्या	d cond	luct involved	l <b>.</b>
Personal including	ty ide g whe	ntibi re th	e comp	formation	n on this m shou	s form i ld be s	s not intended t mt.	o de 11	SEG 101	eny c	mer þ	прозе.	. NOI	T: 96	C mistr	ucuons	TOL III	ors mil	omadon,	

	Gery	Property		ense/Per			_				ber /OS		
First Name: TOY	uy u	crew chief (first/last) and Fi ast Name: (Carpury) In Vironmental		e Drillin <u>/ / / S</u> m d d			Date D	rilling	Comp Q y y	leted J Q		-	ihod copl
WI Unique Well I	Vo. DN	R Well ID No.   Well Name		al Static	Water Feet N		Surfac	e Eleva	ion Feet N	<b>MSL</b>	Boreh	~	ameter inches
State Plane1/4 of		ted: D) or Boring Location, T. N. R.	.E	Lat ong	0 1		Local	Grid Lo Fe		N		Fee	□ E t□ W
Facility ID		County Jefferson		Code	Civit	Town	City/ or	Villag	av	<u> </u>			
Number and Type and Type Boovered (in)	Depth in Feet (Below ground surface)	Soil/Rock Descripti And Geologic Origin Each Major Unit		uscs	Graphic Log	Well Diagram	PID/FID	ive	Moisture Content	Liquid Limit	Plasticity pr	P 200	RQD/ Comments
CS 60	-1 3' f -2 V -3 -4	"- 10" SAND (S ine to medium rery moist, no or staining	sanil,	SP		r1320	0-2. 0.0 2.5- 0	5					
2 60 60	-5 -6 -7 -8 -9	@ 51 Wet			Sc, 12 2 5-10'								Samp GW 6 Procs
I hereby certify the		nd of Boring & mation on this form is true	and correct to	· C	t of m		vledge.		re	nte	zl y	2 G	proce

### Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o

Page 1 of 2

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

Verification Only	of Fill and Seal	Drinking Water Waste Managemen	nt _	Watershed/Wa	astewater	Remediation/Redevelopment
1. Well Location Inform	nation		2. Facilit	y / Owner Info	ormation	
Control of the state of the sta	WI Unique Well # of	Hicap# Well id.	Facility Nar	ne	^	1
Wankesha	Removed Well	SB101		Jeffer	1 Prope	744
Lattitude / Longitude (Degr	ees and Minutes) Metho	od Code (see instructions)	Facility ID (	FID or PWS) >	<b>J</b>	~
• ·	'N		l icense/Pe		#	
	·wl			inio monito ing		
<u></u>	Section ITo	wnship Range TE	Original We	II Owner		
or Gov't Lot #		· '   '     -		emas	Jeffer	Ч
Well Street Address		N W	Present We	7		
W1003 (	maker Rd. C	CT.		homas	Jest	ry
Well City, Village or Town	J. J	Well ZIP Code	T.	iress of Present	Owner	ed ct
Sullivan	WI	53156	City of Pres	I I I I O S	minity	State · ZIP Code
Subdivision Name		Lot#		Im 4 10	7 -	WI 53156
	- hair - la	3 11 (5 11 11 11 11 11 11 11 11 11 11 11 11 11				ealing Material
Reason For Removal From		# of Replacement vveil	3-10-10-10-10-10-10-10-10-10-10-10-10-10-	and the second s		□Yes □No ☑N/A
Done with investigation			1	d piping remove removed?	eu r	Yes No N/A
255Metra Pulliolett Por	*********************	ion Date (mm/dd/yyyy)	l ''	emoved?		Yes No N/A
Monitoring Well	11/15			eft in place?		□Yes ⊠No □N/A
Water Well	If a Well Construc	tion Report is available,		ing cut off belov	v surface?	□ <sub>Yes</sub> ⊠ <sub>No</sub> □ <sub>N/A</sub>
Borehole / Drillhole	please attach.	,		ng material rise		Yes No NA
Construction Type:				rial settle after		□Yes ☑No □N/A
Drilled D	riven (Sandpoint)	Dug	If yes	s, was hole reto	pped?	□ <sub>Yes</sub> □ <sub>No</sub> ⊠ <sub>N/A</sub>
Other (specify):			If bentoni with wate	te chips were us r from a known	sed, were they i safe source?	hydrated Nes Ono On/A
Formation Type:				ethod of Placing		
Unconsolidated Forma	ation Bedi	rock		ıctor Pipe-Gravi	ty 🔲 Conduc	ctor Pipe-Pumped
Total Well Depth From Gro	und Surface (ft.) Casing	Diameter (in.)	Screen (Bento	ned & Poured onite Chips)	U Other (E	Explain):
10_			Sealing Mat		1	
Lower Drillhole Diameter (In	n.) Casing	Depth (ft.)	_	Cement Grout		Clay-Sand Slurry (11 lb./gal. wt.)
	<u>_</u>			Cement (Concre	ete) Grout	Bentonite-Sand Slurry " "
Was well annular space gro	outed? LYes	⊠No Unknown	Concre	ete ing Wells and M	asitasias Mail E	Bentonite Chips
If yes, to what depth (feet)?	Depth to Wa	ter (feet)	_	nite Chips		entonite - Cement Grout
		, }	Granu	lar Bentonite	_	entonite - Sand Slurry
5. Material Used To Fill V	Zell / Dritthole		From (ft.)	t was the state of	No. Yards, Sa	icks Sealant Mix Ratio or
Anna and Ann	Control of the Contro	rito.	Surface	2 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	or volume (	circle one) Mud Weight
<u>Cranul</u>	LI BENCTON	, , , , , , , , , , , , , , , , , , , ,	Juliace	10		
6. Comments						
7: Supervision of Work						DNR Use Only
Name of Person or Firm Do	ing Filling & Sealing Li			g (mm/dd/yyyy)	Date Receive	ed Noted By
	chardson		15/10			
Street or Route Dags	convirenme	:/	ephone Nur		Comments:	
146 4. in/11	Wayker -			ソー3 YII Person Doing	Mode	Date Signed
City Jeffeson	State		Signature of	22-	7	Date Signed

#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information, Route to: **Drinking Water** Watershed/Wastewater Remediation/Redevelopment Verification Only of Fill and Seal Waste Management Other: 2. Facility / Owner Information 1. Well Location Information Wi Unique Well# of dieap# Well id County acility Name Removed Well Wankes ha SB 102 acility ID (FID or PWS) Method Code (see instructions) Lattitude / Longitude (Degrees and Minutes) icense/Permit/Monitoring# 'W Original Well Owner Section Range 1/4/1/4 Cownship E Thomas or Gov't Lot # N W resent Well Owner Well Street Address W100 3 Mailing Address of Present Owner Well ZIP Code Well City, Village or Town 53156 City of Present Owner State . ZIP Code Subdivision Name WI 53156 Pump, Liner, Screen, Casing & Sealing Material Reason For Removal From Service WI Unique Well # of Replacement Well investina Pump and piping removed? \_\_lyes 3.- Well / Drillhole / Borehole Information UN∘ Liner(s) removed? ⊠Yes ∐No Original Construction Date (mm/dd/yyyy) Screen removed? Monitoring Well Jyes 🖾 No Casing left in place? Water Well If a Well Construction Report is available, Was casing cut off below surface? Borehole / Drillhole please attach. Did sealing material rise to surface? N/A Construction Type: No. Yes Did material settle after 24 hours? Drilled Driven (Sandpoint) Dug If yes, was hole retopped? No If bentonite chips were used, were they hydrated with water from a known safe source? Other (specify): Required Method of Placing Sealing Material Formation Type: Conductor Pipe-Gravity Conductor Pipe-Pumped X Unconsolidated Formation Screened & Poured Other (Explain): Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) (Bentonite Chips) Sealing Materials Lower Drillhole Diameter (in.) Casing Depth (ft.) Meat Cement Grout Clay-Sand Slurry (11 lb,/gal. wt.) 2 Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " " ⊠ Bentonite Chips ⊠ No Unknown Was well annular space grouted? or Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or Volume (circle one) Mix Ratio or Mud Weight Material Used To Fill Well / Drillhole From (ft.) To (ft.) Surface 10 7. Supervision of Work DNR Use Only Name of Person or Firm Doing Filling & Sealing Date Received Date of Filling & Sealing (mm/dd/yyyy) lcense # 11/15/10 Street or Route Telephone Number Comments <u>(920)674-3411</u> State ZIP Code Signature of Person Doing Work Date Signed

#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to: Drinking Water Watershed/Wastewater Remediation/Redevelopment Verification Only of Fill and Seal Waste Management 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of tleap# well id acility Name County Removed Well Wankesha SB103 acility ID (FID or PWS) Method Code (see instructions) Lattitude / Longitude (Degrees and Minutes) icense/Permit/Monitoring # Original Well Owner 1/11/4 Section Township Range Ε thomas or Gov't Lot # N resent Well Owner Well Street Address nomas W100 3 Mailing Address of Present Owner Nell ZIP Code Well City, Village or Town 53156 State . ZIP Code City of Present Owner Subdivision Name ot # WI 53156 muna Pump, Liner, Screen, Casing & Sealing Material Reason For Removal From Service WI Unique Well # of Replacement Well Done with investigation Pump and piping removed? 3. Well / Drillhole / Borehole information JNo Liner(s) removed?  $\boxtimes_{\mathsf{Yes}}$  $\sqcup_{N_0}$ Original Construction Date (mm/dd/yyyy) Screen removed? Monitoring Well Casing left in place? Water Well MNo If a Well Construction Report is available, Was casing cut off below surface? Borehole / Drillhole please attach. Did sealing material rise to surface? Construction Type:  $\mathbb{A}^{\mathsf{N}_{\mathsf{D}}}$ Did material settle after 24 hours? Drilled Driven (Sandpoint) Dua If yes, was hole retopped? if bentonite chips were used, were they hydrated with water from a known sale source? Other (specify): Required Method of Placing Sealing Material Formation Type: Conductor Pipe-Gravity Conductor Pipe-Pumped X Unconsolidated Formation Bedrock Screened & Poured Other (Explain): Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) (Bentonite Chips) Sealing Materials Lower Drillhole Diameter (in.) Casing Depth (ft.) Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.) Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " " Bentonite Chips X No Yes Unknown Was well annular space grouted? or Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant Mix Ratio or 5. Material Used To Fill Well / Drillhole From (ft.) aTo (ft.) Surface 10 7. Supervision of Work DNR Use Only --Name,ef Person or Firm Doing Filling & Sealing icense # Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By 11/15/10 Telephone Number Comments (920)674-3411 ZIP Code State Signature of Person Doing Work Date Signed

## Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o

Page 1 of 2

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

Route to:

Verification Only	of Fill and Se	į.	Drinking \		nt	Watershed/\	Vastewater	Reme	dlation/Redevelopmer
1. Well Location Inform	nation				2. Facilit	y / Owner Ir	formation		
	Wi Unique Well #	of H	ap# Well	14	Facility Nan	ne	^	1	The second secon
Wankesha	Removed Well		SB104		(	Teffer	y Prop	serty	
Lattitude / Longitude (Degr	ees and Minutes		<u> </u>	nuctions)	Facility ID (	FID or PWS)	7		
Eattitude / Milditude (Degi-	'N	1	one (see man	luctions)		1			
		1			License/Per	rmit/Monitorin	g#		
	<u> </u>	<u> </u>			Od-local VA/o	(I Owner			
1/4 1/4	Section	Towns	hip Range	E	Original We		Tall		
or Gov't Lot#			N	□w	Present We		J-C7-4	<del>ч у</del>	
Well Street Address	ad. c	000	<b>-</b> -		1	homas	Toy.	ifery	
Well City, Village or Town	revive k	يال. مالاي	Well ZIP Cod			ress of Prese	nt Owner	<del></del>	
Sullivan	<del> </del>		53150	_	_ \	11003	Count	uRol.	<u>CI</u>
Subdivision Name	<u>~1</u>		Lot#		City of Pres	-		State	
<b>4.2.2.</b>						imy		<u> </u>	53156
Reason For Removal From	Service WI Uni	que Well#	of Replaceme	nt Well	4. Pump,	Liner, Scree	n, Casing	& Sealing Mat	erial English
Done with Inves	stigatin		<u> </u>	_	Pump an	d piping remo	ved?	<u>_</u>	Yes UNO MIN
3. Well / Drillhole / Bore	The state of the s	*****			Liner(s) r	emoved?		<u>_</u>	Yes UNO N
Monitoring Well	Original C	nstruction	Date (mm/dd.	/уууу)	Screen re	emoved?		Ľ	Yes No No
		15/1	0		Casing le	ft in place?		L	Yes No DN
Water Well	If a Well 0		Report is ava	ilable,	Was casi	ng cut off bel	ow surface?		Yes No DN
Borehole / Drillhole	pieasa ati	acii.			Did sealir	ng material ris	e to surface?	·	Yes UNO UN
Construction Type:	(D11-N		1		1	rial settle afte		<u> </u>	Yes No N
<del></del>	riven (Sandpoint)	L	Dug			, was hole rei			Yes □No ☑N
Other (specify):						ie chips were r from a know			Yes OND ON
Formation Type:	-	_			l 귽	ethod of Placir			
∠ Unconsolidated Forma	ition	Bedrock				ctor Pipe-Graned & Poured	· —	ductor Pipe-Pum	ped
Total Well Depth From Grou	und Surface (ft.)	Casing Dia	meter (in.)			nite Chips)	LL Othe	er (Explain):	
10		0.1.5	1		Sealing Mate		1		
Lower Drillhole Diameter (In	1.}	Casing De	oin (II.)			Cement Grout			nd Slurry (11 lb./gal. w
		1	<i></i>	.,	Concre	Cement (Conc	rete) Grout	Bentonit	e-Sand Slurry " "
Was well annular space gro	outed? L	Yes	¶No ∐Ur	nknown			Monitorina We	pentunii ell Boreholes On	
If yes, to what depth (feet)?	Depti	to Water (	feet)					Bentonite - Cen	
	İ	\$_			☐ Granul	ar Bentonite		Bentonite - San	
5. Material Used To Fill W	/ell / Drillhole -				From (ft.)	To (ft.)		Sacks Sealant e (circle one)	
/ 1		140121	+	Ting (Little of the Property	Surface	16	EESTOIS VOID !!	iei(circie:One);	Mud Weight
						10			
			_				<del></del>		
6. Comments				iya Filipe					
The state of the s									
				conservation.			**************************************		
7. Supervision of Work								DNR Use	The state of the s
Name of Person or Firm Do	7 -9	ing Licens	e#  Da			g (mm/dd/yyy	y) Date Reco	lyed No	led By
Street or Route Daire	chardsan	.   ~p~~.	<del>                                      </del>		ephone Nun	nhor.	Comment		
ILIG G MI	ida. b.	SŁ	. <del>-</del>	1	epnone Nun 20)6 フ				
	VYCLAL F. P.F.	State	ZIP Code			Person Doin	g Work	Da	ite Signed
Jefferson		WI	5354		_ 1		7		1/17/10

Street or Route

City

#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08) Page 1 of 2 Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to: Watershed/Wastewater Remediation/Redevelopment Drinking Water Verification Only of Fill and Seal Waste Management Other: 1. Well Location Information 2. Facility / Owner Information WI Unique Well# of Heap# Wallid acility Name County Removed Well Wankesha SB 105 acility ID (FID or PWS) Method Code (see instructions) Lattitude / Longitude (Degrees and Minutes) icense/Permit/Monitoring# Original Well Owner 1/4/1/4 Section Township Range ٦E thomas or Gov't Lot # N W resent Well Owner Well Street Address nomas Widd 3 Mailing Address of Present Owner Nell ZIP Code Well City, Village or Town 53156 ZIP Code City of Present Owner State . Subdivision Name ot# WI 53156 Pump, Liner, Screen, Casing & Sealing Material WI Unique Well # of Replacement Well Reason For Removal From Service Pump and piping removed? investigat Done with ]No 3: Well / Drillhole / Borehole Information Liner(s) removed? ⊠yes Original Construction Date (mm/dd/yyyy) Screen removed? Monitoring Well MNo Casing left in place? Water Well If a Well Construction Report is available, Was casing cut off below surface? Borehole / Drillhole please attach. Did sealing material rise to surface? Construction Type: MNO Yes Did material settle after 24 hours? Drilled Driven (Sandpoint) Dug If yes, was hole retopped? If bentonite chips were used, were they hydrated with water from a known safe source? Other (specify): Required Method of Placing Sealing Material Formation Type: Conductor Pipe-Gravity Conductor Pipe-Pumped Vinconsolidated Formation Screened & Poured Other (Explain): Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) (Bentonite Chips) Sealing Materials Lower Drillhole Diameter (in.) Casing Depth (ft.) Clay-Sand Slurry (11 lb./gal. wt.) ■ Neat Cement Grout Z Sand-Cement (Concrete) Grout Bentonite-Sand Slurry \* " Bentonite Chips ⊠No Was well annular space grouted? Unknown or Monitoring Wells and Monitoring Well Boreholes Only: If ves. to what depth (feet)? Depth to Water (feet) Bentonite - Cement Grout ∃ Bentonite Chips Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or Volume (circle one) Mix Ratio or Mud Weight Material Used To Fill Well / Drillhole From (ft.) To (ft.) Surface 10 7. Supervision of Work DNR Use Only Name, of Person or Firm Doing Filling & Sealing Date of Filling & Sealing (mm/dd/yyyy) Date Received Voted By .icense # 11/15/10

Telephone Number

ZIP Code

State

(920)674-3411

Signature of Person Doing Work

Comments

Date Signed

### ATTACHMENT D

Laboratory Analytical Reports

(920)469-2436



November 24, 2010

Paula Richardson Saga Environmental and Engineering, Inc. 146 E. Milwaukee St. Jefferson, WI 53549

RE: Project: 10-731 JEFFERY PROPERTY

Pace Project No.: 4039771

#### Dear Paula Richardson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alee Her

alee.her@pacelabs.com Project Manager

alle In

Enclosures



Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302

(920)469-2436

#### **CERTIFICATIONS**

Project:

10-731 JEFFERY PROPERTY

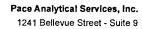
Pace Project No.:

4039771

Green Bay Certification IDs 1241 Bellevue Street, Green Bay, WI 54302 California Certification #: 09268CA Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 11888

New York Certification #: 11888 North Carolina Certification #: 503 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 US Dept of Agriculture #: S-76505 Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444





Green Bay, WI 54302 (920)469-2436



#### **SAMPLE SUMMARY**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4039771

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4039771001	SB101	Water	11/15/10 11:00	11/18/10 09:00
4039771002	SB102	Water	11/15/10 12:00	11/18/10 09:00
4039771003	SB103	Water	11/15/10 13:00	11/18/10 09:00
4039771004	SB104	Water	11/15/10 14:00	11/18/10 09:00
4039771005	SB105	Water	11/15/10 15:00	11/18/10 09:00
4039771006	TRIP BLANK	Water	11/15/10 00:00	11/18/10 09:00





(920)469-2436



#### **SAMPLE ANALYTE COUNT**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4039771

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4039771001	SB101	WI MOD GRO	SES	9	PASI-G
4039771002	SB102	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4039771003	SB103	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4039771004	SB104	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4039771005	SB105	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4039771006	TRIP BLANK	WI MOD GRO	SES	9	PASI-G





(920)469-2436



#### **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

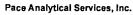
Pace Project No.:

4039771

Sample: SB101	Lab ID: 403	9771001 Collecte	ed: 11/15/10	11:00	Received: 11	/18/10 09:00 M	Matrix: Water		
Parameters	Results U	Jnits LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
WIGRO GCV	Analytical Met	hod: WI MOD GRO							
Benzene	<b>0.42J</b> ug/L	1.0	0.39	1		11/19/10 10:53	71-43-2		
Ethylbenzene	<b>&lt;0.41</b> ug/L	1.0	0.41	1		11/19/10 10:53	100-41-4		
Methyl-tert-butyl ether	<0.38 ug/L	1.0	0.38	1		11/19/10 10:53	1634-04-4		
Naphthalene	<b>&lt;0.40</b> ug/L	1.0	0.40	1		11/19/10 10:53	91-20-3		
Toluene	<b>0.85J</b> ug/L	1.0	0.42	1		11/19/10 10:53	108-88-3		
1,2,4-Trimethylbenzene	<0.43 ug/L	1.0	0.43	1		11/19/10 10:53	95-63-6		
1,3,5-Trimethylbenzene	<0.40 ug/L	1.0	0.40	1		11/19/10 10:53	108-67-8		
Xylene (Total)	<1.3 ug/L	3.0	1.3	1		11/19/10 10:53	1330-20-7		
a,a,a-Trifluorotoluene (S)	103 %	80-120		1		11/19/10 10:53	98-08-8	pН	

Date: 11/24/2010 02:42 PM







1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

#### **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4039771

Sample: SB102	Lab ID: 403977100	2 Collecte	d: 11/15/10	12:00	Received: 11	I/18/10 09:00 M	Matrix: Water		
Parameters	Results Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
WIGRO GCV	Analytical Method: Wi	MOD GRO							
Benzene	<b>&lt;0.39</b> ug/L	1.0	0.39	1		11/19/10 11:18	71-43-2		
Ethylbenzene	<b>&lt;0.41</b> ug/L	1.0	0.41	1		11/19/10 11:18	100-41-4		
Methyl-tert-butyl ether	<b>&lt;0.38</b> ug/L	1.0	0.38	1		11/19/10 11:18	1634-04-4		
Naphthalene	<b>&lt;0.40</b> ug/L	1.0	0.40	1		11/19/10 11:18	91-20-3		
Toluene	<b>0.62J</b> ug/L	1.0	0.42	1		11/19/10 11:18	108-88-3		
1,2,4-Trimethylbenzene	<b>&lt;0.43</b> ug/L	1.0	0.43	1		11/19/10 11:18	95-63-6		
1,3,5-Trimethylbenzene	<b>&lt;0.40</b> ug/L	1.0	0.40	1		11/19/10 11:18	108-67-8		
Xylene (Total)	<b>&lt;1.3</b> ug/L	3.0	1.3	1		11/19/10 11:18	1330-20-7		
a,a,a-Trifluorotoluene (S)	104 %	80-120		1		11/19/10 11:18	98-08-8	pН	
6010 MET ICP, Dissolved	Analytical Method: EF	A 6010							
Lead, Dissolved	<b>&lt;1.7</b> ug/L	7.5	1.7	1		11/19/10 16:28	7439-92-1		

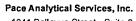
Date: 11/24/2010 02:42 PM

REPORT OF LABORATORY ANALYSIS

Page 6 of 14

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







(920)469-2436

#### **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4039771

Sample: SB103	Lab ID:	Lab ID: 4039771003			13:00	Received: 11	/18/10 09:00 M	Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
WIGRO GCV	Analytical	Method: WI Mo	OD GRO							
Benzene	<b>0.50J</b> u	g/L	1.0	0.39	1		11/19/10 11:44	71-43-2		
Ethylbenzene	<b>0.45J</b> u	g/L	1.0	0.41	1		11/19/10 11:44	100-41-4		
Methyl-tert-butyl ether	<b>&lt;0.38</b> u	g/L	1.0	0.38	1		11/19/10 11:44	1634-04-4		
Naphthalene	<b>&lt;0.40</b> u	g/L	1.0	0.40	1		11/19/10 11:44	91-20-3		
Toluene	<b>1.4</b> u	g/L	1.0	0.42	1		11/19/10 11:44	108-88-3		
1,2,4-Trimethylbenzene	<b>&lt;0.43</b> u	g/L	1.0	0.43	1		11/19/10 11:44	95-63-6		
1,3,5-Trimethylbenzene	<b>&lt;0.40</b> u	g/L	1.0	0.40	1		11/19/10 11:44	108-67-8		
Xylene (Total)	<b>&lt;1.3</b> u	g/L	3.0	1.3	1		11/19/10 11:44	1330-20-7		
a,a,a-Trifluorotoluene (S)	104 %	6	80-120		1		11/19/10 11:44	98-08-8	pН	
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	010							
Lead, Dissolved	<b>&lt;1.7</b> u	g/L	7.5	1.7	1		11/19/10 16:40	7439-92-1		

Date: 11/24/2010 02:42 PM





(920)469-2436



#### **ANALYTICAL RESULTS**

Project:

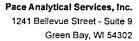
10-731 JEFFERY PROPERTY

Pace Project No.: 4039771

Lab ID: 40397710	04 Collecte	d: 11/15/10	14:00	Received: 11	I/18/10 09:00 M	atrix: Water	
Results Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: W	I MOD GRO						
<b>&lt;0.78</b> ug/L	2.0	0.78	2		11/23/10 08:34	71-43-2	
<b>17.3</b> ug/L	2.0	0.83	2		11/23/10 08:34	100-41-4	
<b>&lt;0.76</b> ug/L	2.0	0.76	2		11/23/10 08:34	1634-04-4	
<b>4.9</b> ug/L	2.0	0.81	2		11/23/10 08:34	91-20-3	
<b>2.8</b> ug/L	2.0	0.83	2		11/23/10 08:34	108-88-3	
<b>14.1</b> ug/L	2.0	0.86	2		11/23/10 08:34	95-63-6	
<b>7.1</b> ug/L	2.0	0.79	2		11/23/10 08:34	108-67-8	
<b>21.4</b> ug/L	6.0	2.5	2		11/23/10 08:34	1330-20-7	
152 %	80-120		2		11/23/10 08:34	98-08-8	D3,HS, S7,pH
Analytical Method: Ef	PA 6010						
<b>2.0J</b> ug/L	7.5	1.7	1		11/19/10 16:44	7439-92-1	
	Analytical Method: W  <0.78 ug/L  17.3 ug/L  <0.76 ug/L  4.9 ug/L  2.8 ug/L  14.1 ug/L  7.1 ug/L  21.4 ug/L  152 %  Analytical Method: EF	Results         Units         LOQ           Analytical Method: WI MOD GRO         <0.78 ug/L	Results         Units         LOQ         LOD           Analytical Method: WI MOD GRO         0.78 ug/L         2.0         0.78           17.3 ug/L         2.0         0.83         0.76 ug/L         2.0         0.76           4.9 ug/L         2.0         0.81         2.0         0.83         14.1 ug/L         2.0         0.83         14.1 ug/L         2.0         0.86         7.1 ug/L         2.0         0.79         21.4 ug/L         6.0         2.5         152 %         80-120         80-120         Analytical Method: EPA 6010	Results         Units         LOQ         LOD         DF           Analytical Method: WI MOD GRO           <0.78 ug/L	Results         Units         LOQ         LOD         DF         Prepared           Analytical Method: WI MOD GRO           <0.78 ug/L	Results         Units         LOQ         LOD         DF         Prepared         Analyzed           Analytical Method: WI MOD GRO           <0.78 ug/L	Results         Units         LOQ         LOD         DF         Prepared         Analyzed         CAS No.           Analytical Method: WI MOD GRO           <0.78 ug/L

Date: 11/24/2010 02:42 PM





11/19/10 16:48 7439-92-1

(920)469-2436



#### **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

<1.7 ug/L

Pace Project No.: 4039771

Lead, Dissolved

Lab ID: 4039771005 Collected: 11/15/10 15:00 Received: 11/18/10 09:00 Matrix: Water Sample: SB105 **Parameters** Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual **WIGRO GCV** Analytical Method: WI MOD GRO Benzene 0.45J ug/L 0.39 11/19/10 20:14 71-43-2 Ethylbenzene 2.8 ug/L 1.0 0.41 11/19/10 20:14 100-41-4 0.38 Methyl-tert-butyl ether <0.38 ug/L 1.0 11/19/10 20:14 1634-04-4 0.40 Naphthalene <0.40 ug/L 1.0 11/19/10 20:14 91-20-3 1.0 ug/L 0.42 11/19/10 20:14 108-88-3 Toluene 1.0 1 1,2,4-Trimethylbenzene <0.43 ug/L 1.0 0.43 1 11/19/10 20:14 95-63-6 <0.40 ug/L 0.40 1 11/19/10 20:14 108-67-8 1,3,5-Trimethylbenzene 1.0 1.3 Xylene (Total) <1.3 ug/L 3.0 1 11/19/10 20:14 1330-20-7 104 % 11/19/10 20:14 98-08-8 a,a,a-Trifluorotoluene (S) 80-120 1 pН 6010 MET ICP, Dissolved Analytical Method: EPA 6010

7.5

1.7

Date: 11/24/2010 02:42 PM

#### **REPORT OF LABORATORY ANALYSIS**









#### **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4039771

Sample: TRIP BLANK	Lab ID:	Collecte	d: 11/15/10	00:00	Received: 11	atrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI M	OD GRO						
Benzene	<b>&lt;0.39</b> u	ıg/L	1.0	0.39	1		11/19/10 20:39	71-43-2	
Ethylbenzene	<b>&lt;0.41</b> u	ıg/L	1.0	0.41	1		11/19/10 20:39	100-41-4	
Methyl-tert-butyl ether	< <b>0.38</b> u	ıg/L	1.0	0.38	1		11/19/10 20:39	1634-04-4	
Naphthalene	<0.40 u	ıg/L	1.0	0.40	1		11/19/10 20:39	91-20-3	
Toluene	<0.42 u	ıg/L	1.0	0.42	1		11/19/10 20:39	108-88-3	
1,2,4-Trimethylbenzene	< <b>0.43</b> u	ıg/L	1.0	0.43	1		11/19/10 20:39	95-63-6	
1,3,5-Trimethylbenzene	< <b>0.40</b> u	ıg/L	1.0	0.40	1		11/19/10 20:39	108-67-8	
Xylene (Total)	<b>&lt;1.3</b> u	ıg/L	3.0	1.3	1		11/19/10 20:39	1330-20-7	
a,a,a-Trifluorotoluene (S)	105 %	%	80-120		1		11/19/10 20:39	98-08-8	

Date: 11/24/2010 02:42 PM



(920)469-2436



#### **QUALITY CONTROL DATA**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4039771

QC Batch:

GCV/5925

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples:

4039771001, 4039771002, 4039771003, 4039771004, 4039771005, 4039771006

METHOD BLANK: 386638

Matrix: Water

Associated Lab Samples: 4039771001, 4039771002, 4039771003, 4039771004, 4039771005, 4039771006

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	11/19/10 09:10	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	11/19/10 09:10	
Benzene	ug/L	< 0.39	1.0	11/19/10 09:10	
Ethylbenzene	ug/L	<0.41	1.0	11/19/10 09:10	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	11/19/10 09:10	
Naphthalene	ug/L	<0.40	1.0	11/19/10 09:10	
Toluene	ug/L	< 0.42	1.0	11/19/10 09:10	
Xylene (Total)	ug/L	<1.3	3.0	11/19/10 09:10	
a,a,a-Trifluorotoluene (S)	%	104	80-120	11/19/10 09:10	

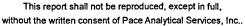
LABORATORY CONTROL SAM	PLE & LCSD: 386639		38	36640		·			•	<u> </u>
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.8	20.8	104	104	80-120	.4	20	
1,3,5-Trimethylbenzene	ug/L	20	20.9	20.9	105	105	80-120	.07	20	
Benzene	ug/L	20	20.9	20.8	105	104	80-120	.5	20	
Ethylbenzene	ug/L	20	21.1	21.1	106	105	80-120	.08	20	
Methyl-tert-butyl ether	ug/L	20	21.3	21.4	106	107	80-120	.6	20	
Naphthalene	ug/L	20	19.3	19.9	96	99	80-120	3	20	
Toluene	ug/L	20	21.0	20.9	105	104	80-120	.4	20	
Xylene (Total)	ug/L	60	63.0	62.7	105	104	80-120	.5	20	
a,a,a-Trifluorotoluene (S)	%				101	102	80-120			

MATRIX SPIKE & MATRIX SF	PIKE DUPLICAT	E: 38670	6		386707									
Parameter	40 Units	039819003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual		
1,2,4-Trimethylbenzene	ug/L	1450	200	200	1680	1630	119	89	31-178	4	20			
1,3,5-Trimethylbenzene	ug/L	371	200	200	628	608	129	118	66-145	3	20			
Benzene	ug/L	96.7	200	200	357	352	130	128	23-177	1	20			
Ethylbenzene	ug/L	957	200	200	1110	1080	76	60	63-144	3	20	M1		
Methyl-tert-butyl ether	ug/L	<3.8	200	200	209	210	104	105	80-120	.7	20			
Naphthalene	ug/L	283	200	200	453	458	85	88	63-140	1	20			
Toluene	ug/L	63.1	200	200	282	281	110	109	53-164	.6	20			
Xylene (Total)	ug/L	3340	600	600	3910	3770	94	71	41-166	4	20			
a,a,a-Trifluorotoluene (S)	%						111	110	80-120					

Date: 11/24/2010 02:42 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 11 of 14









**QUALITY CONTROL DATA** 

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4039771

QC Batch:

ICP/4091

Analysis Method:

EPA 6010

QC Batch Method:

EPA 6010

Analysis Description:

ICP Metals, Trace, Dissolved

Associated Lab Samples:

4039771002, 4039771003, 4039771004, 4039771005

METHOD BLANK: 386868

Matrix: Water

Associated Lab Samples:

Parameter

Parameter

4039771002, 4039771003, 4039771004, 4039771005

Blank Result Reporting

Limit

Analyzed

Qualifiers

Lead, Dissolved

ug/L

Units

Units

<1.7

7.5 11/19/10 16:20

LABORATORY CONTROL SAMPLE:

Spike

LCS Result % Rec % Rec Limits

Qualifiers

Lead, Dissolved

ug/L

500

527

386871

105 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

386870

<1.7

LCS

MS 4039771002 Spike

Conc.

MSD Spike

MS MSD Result Result

MS % Rec

MSD % Rec

% Rec Max

Qual

Parameter Lead, Dissolved

Units Result ug/L

Conc. Conc. 500 500

510

500

100

Limits

RPD RPD

102

75-125

2

20

Date: 11/24/2010 02:42 PM

**REPORT OF LABORATORY ANALYSIS** 

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





(920)469-2436

#### **QUALIFIERS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4039771

#### **DEFINITIONS**

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

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

#### **LABORATORIES**

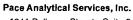
PASI-G Pace Analytical Services - Green Bay

#### **ANALYTE QUALIFIERS**

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S7	Surrogate recovery outside control limits (not confirmed by re-analysis).
pН	Post-analysis pH measurement indicates insufficient VOA sample preservation.

Date: 11/24/2010 02:42 PM







(920)469-2436

#### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4039771

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4039771001	SB101	WI MOD GRO	GCV/5925		
4039771002	SB102	WI MOD GRO	GCV/5925		
4039771003	SB103	WI MOD GRO	GCV/5925		
4039771004	SB104	WI MOD GRO	GCV/5925		
4039771005	SB105	WI MOD GRO	GCV/5925		
4039771006	TRIP BLANK	WI MOD GRO	GCV/5925		
4039771002	SB102	EPA 6010	ICP/4091		
4039771003	SB103	EPA 6010	ICP/4091		
4039771004	SB104	EPA 6010	ICP/4091		
4039771005	SB105	EPA 6010	ICP/4091		

Date: 11/24/2010 02:42 PM



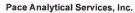
	(Please Print Clearly)				7						MIDWES				P	Page 1	of /
Company Na	me: Saga Canvironn	restal	6.10		Ι.					MN: 61	12-607-17	700 <b>V</b>	VI: 920-469-2436				
Branch/Loca	tion: Jefferson		200	P		nalyti w.pacelabi				12	7					40397	71
Project Conta	act: Paula Richa	rdson	L /		17 19	т.расская:	3.00m			6		Γ	Quote #:	T	PECE	A	
Phone:	920-674-3411		'	C	HAI	N O	FC	US'	ГО	DY			Mail To Contact:		<u> </u>		erdson
Project Numb			A=No		C=H2S	*Preset	rvation Co O3 E=DI	des	=Methan		зОН		Mail To Company:	1	Saga G		
Project Name		d.,		odium Bisulfat			um Thiosu		Other			ı	Mail To Address:	1,	UL G. M	lwan	Kee En
Project State		<del>'9</del>		RED?	Y Nix	コマ	T					$\dashv$		-	Telferso		<b>&gt;7.</b> (
Sampled By (		_		WATION			+-					-	Invoice To Contact:				
Sampled By	10000 Plane	COSON	co) ر	DE)*	etter .	33 B								$\neg$	Runda	<u>ICI</u>	rardson
		egulatory				3 7	3	. ]				-	Invoice To Company:	┿	_		
PO #:		Program:	PEC	FA	15 S	7 1	\$			]			Invoice To Address:				0 -
Data Packa	mge Options MS/MSD		ix Codes	3	5	5   3	2				1					~	
☐ EP/	A Level III On your sample  B=	Biota (	DW = Drinki GW = Grour SW = Surfac	nd Water		D'eshing / a D	2						Invoice To Phone:				
ļ	your sample SI =	Soil 1	WW ≃ Wast WP = Wipe	e Water		ع   ﴿	2				-		CLIENT	1	LAB COM		Profile #
PACE LAB'#	CLIENT FIELD ID	DATE	TIME	MATRIX			٠	$\sqcup$					COMMENTS	丄	(Lab Use		<u> </u>
$\Omega_{0}$	SBIOI	11/15/	o lla	6W		<u> </u>	<u> </u>						· · · · · · · · · · · · · · · · · · ·	13	3-40m0F		
002	SB102		130	600	<b>1</b>	$X \mid X$									1 2	50wl	D
003	5B/03		40	Gw	3	Z X								T		1	
004	58104	1	10	GW		XX							Sheen	1			
005	SB105	115	* ±"	(1)		CX	1							1	1		
006	Trie Blank	14(1.13)	7	<del> </del>		(		<del>                                     </del>						ば	-40m e	<del>y</del>	*****
1220	I OP DIACK	<del>  </del>	<u> </u>	4	7 / /	-	+	<del>  </del>						12	-90VU		
		$\longrightarrow$		養			<del>                                     </del>			.				┿			
				Š							_			丰			
											_			].			
			-	Ť										T			,
			······································	Š			1							1			
		<del>                                     </del>		33	2012 2012		┪──	<del>                                     </del>			<del>-  </del> -	<del></del>	<del></del>	+-			
	*****	<del>  </del>		<u> </u>	7 (A) 16 (A)		+-	<del>}</del>				$\rightarrow$		+			
							<u> </u>	<u></u> 1		لــــــــــــــــــــــــــــــــــــــ			A	ᆜ	10-	PACE Pro	lact No.
	rnaround Time Requested - Prelims  FAT subject to approval/surcharge)	Reilno	uished By:	The	<b>~</b> `	11	Date/Time:	10 14	:05	Resolved I	ENT.		Date/fime:	K	105	N. A.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(110311	Date Needed:	Ralino	ulshed By		7)	7 1	Date/Time:			Received	By:		Date/Time:			4039	,771
	lim Rush Results by (complete what you wan	0: \	<i>} \</i>	land	X X	2/2//	18	1700							Recei	pt Temp = 1/2	n / °c
Email #1:		Relinqu	uished By:	dics	- •	111	Date/Time:	0900	ر ح	Received !	Janes	18.1	11 Date/Time:	en i		Sample Re	Celpt pH
Email #2: Telephone:			UCO (	オルビン			Date/Time:	0700		Received	By:	WAT.	Date/Time:	101	<del> </del> ,	(OK ) Adj	
Fax:											 	$\overline{}$	7			Cooler Cus	
	samples on HOLD are subject to	Relinq	uished By:			r	Date/Time:			Received	Ву:		Date/Time:			resent No Intact / No	
						•									Version	6.0 06/14/06	

# Pace Analytical

## Sample Condition Upon Receipt

Client Name:	Saga Ex	าป .	Project # _	463977
Courier: Fed Ex T UPS T USPS T C	. )	nercial   Pace	Other Ca Logisti	(5
Tracking #:			ر _	
Custody Seal on Cooler/Box Present: 7 yes	r no S	eals intact: * yes	no [	Optional کی در ا
Custody Seal on Samples Present:	ro S	eals intact: 🎵 yes	厂no Iŧ	²roj. Due Date:
•		None Other	Ĵ	roj Name:
Thermometer Used		Vet Blue Dry None	✓ Samples on i	ice, cooling process has begun
Cooler Temperature RO (	Biological Tis	sue is Frozen: Tyes	·	
Temp Blank Present: yes yono		no		mining contents:
Temp should be above freezing to $6^{\circ}$ C for all sample excellinates Samples should be received $\leq 0^{\circ}$ C.	ept Biota.	Comments:	Date:	18/10
Chain of Custody Present:	∕D/Yes □No □	] <sub>N/A</sub> 1.		
Chain of Custody Filled Out:	X Yes □No □	] <sub>N/A</sub> 2.		
Chain of Custody Relinquished:	XYes □No □	] <sub>N/A</sub> 3.		
Sampler Name & Signature on COC:	Myes □No □	IN/A 4.		
Samples Arrived within Hold Time:	Yes □No □	] <sub>N/A</sub> 5.		
Short Hold Time Analysis (<72hr):	□Yes ∯No □	] <sub>N/A</sub> 6.		· .
Rush Turn Around Time Requested:	□Yes ⊠No □	] <sub>N/A</sub> 7.	<del></del>	
Sufficient Volume:	∯yes □No □	]N/A 8.		
Correct Containers Used:	¥Yes □No □	]n/a 9.		
-Pace Containers Used:	Yes DNo D	DN/A		
Containers Intact:	Yes □No □	]N/A 10.		•
Filtered volume received for Dissolved tests	Yes ONo D	NA 11.		<del></del>
Sample Labels match COC:	TAYes □No □	]N/A 12.		
-Includes date/time/ID/Analysis Matrix:	<u>J                                     </u>		·	
All containers needing preservation have been checked.	□Yes □No \$	ØN/A 13		
All containers needing preservation are found to be in				
compliance with EPA recommendation.	□Yes □No E	Initial when	Lot # of adde	ed
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No	completed	preservative	
Samples checked for dechlorination:		YVA 14.		
Headspace in VOA Vials ( >6mm):	12 Yes □No [	INVA 15-2-40Ml fo	r -004 MEN	"/18
Trip Blank Present:	ØYes □No □	JN/A 16.		
Trip Blank Custody Seals Present	Øyes □No [	JNA		
Pace Trip Blank Lot # (if purchased):	<u> </u>			
Client Notification/ Resolution:			Field Data F	Required? Y / N
Person Contacted: .	, , , , , , , , , , , , , , , , , , , ,	Date/Time:	2001111	/
Comments/ Resolution: Seliment in a	I VOA via	> except 7.10	5. 11/42/U . 118	110
				••
		A		
Project Manager Review:	<i>QX</i> .	14	Date	e: 11/18/10

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





1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

December 20, 2010

Paula Richardson Saga Environmental and Engineering, Inc. 146 E. Milwaukee St. Jefferson, WI 53549

RE: Project: 10-731 JEFFERY PROPERTY

Pace Project No.: 4040689

#### Dear Paula Richardson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 11, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alee Her

alee.her@pacelabs.com Project Manager

alle de

**Enclosures** 





Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302

(920)469-2436

#### **CERTIFICATIONS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

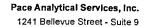
**Green Bay Certification IDs** 

1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

New York Certification #: 11888 North Carolina Certification #: 503 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 US Dept of Agriculture #: S-76505 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444

#### **REPORT OF LABORATORY ANALYSIS**





Green Bay, WI 54302

(920)469-2436

# Pace Analytical \*

#### **SAMPLE SUMMARY**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4040689001	PW-1	Water	12/09/10 09:30	12/11/10 08:35
4040689002	TRIP BLANK	Water	12/09/10 09:30	12/11/10 08:35







(920)469-2436

#### **SAMPLE ANALYTE COUNT**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4040689001	PW-1	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4040689002	TRIP BLANK	WI MOD GRO	SES	9	PASI-G







(920)469-2436

#### **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

Sample: PW-1	Lab ID: 40406	689001 Collecte	d: 12/09/10	0 09:30	Received: 12	/11/10 08:35 M	atrix: Water	
Parameters	Results Un	its LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Metho	d: WI MOD GRO						
Benzene	<b>&lt;0.39</b> ug/L	1.0	0.39	1		12/13/10 14:51	71-43-2	
Ethylbenzene	<b>&lt;0.41</b> ug/L	1.0	0.41	1		12/13/10 14:51	100-41-4	
Methyl-tert-butyl ether	<0.38 ug/L	1.0	0.38	1		12/13/10 14:51	1634-04-4	
Naphthalene	<0.40 ug/L	1.0	0.40	1		12/13/10 14:51	91-20-3	
Toluene	<0.42 ug/L	1.0	0.42	1		12/13/10 14:51	108-88-3	
1,2,4-Trimethylbenzene	<0.43 ug/L	1.0	0.43	1		12/13/10 14:51	95-63-6	
1,3,5-Trimethylbenzene	<0.40 ug/L	1.0	0.40	1		12/13/10 14:51	108-67-8	
Xylene (Total)	<1.3 ug/L	3.0	1.3	1		12/13/10 14:51	1330-20-7	
a,a,a-Trifluorotoluene (S)	102 %	80-120		1		12/13/10 14:51	98-08-8	
6010 MET ICP	Analytical Metho	d: EPA 6010 Prepa	ration Meth	od: EPA	3010			
Lead	<1.4 ug/L	7.5	1.4	1	12/14/10 14:45	12/16/10 13:34	7439-92-1	

Date: 12/20/2010 03:52 PM







(920)469-2436

#### **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

Sample: TRIP BLANK	Lab ID:	4040689002	Collecte	d: 12/09/10	09:30	Received: 12	2/11/10 08:35 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytica	i Method: WI M	OD GRO						
Benzene	<0.39	ug/L	1.0	0.39	1		12/13/10 15:17	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		12/13/10 15:17	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		12/13/10 15:17	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		12/13/10 15:17	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		12/13/10 15:17	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		12/13/10 15:17	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		12/13/10 15:17	108-67-8	
Xylene (Total)	<1.3 (	ug/L	3.0	1.3	1 .		12/13/10 15:17	1330-20-7	
a,a,a-Trifluorotoluene (S)	104 9	%	80-120		1		12/13/10 15:17	98-08-8	

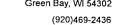
Date: 12/20/2010 03:52 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 6 of 10









#### **QUALITY CONTROL DATA**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

QC Batch:

GCV/6018

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

Matrix: Water

WIGRO GCV Water

Associated Lab Samples: 4040689001, 4040689002

METHOD BLANK: 395326

Associated Lab Samples: 4040689001, 4040689002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	12/13/10 11:01	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	12/13/10 11:01	
Benzene	ug/L	<0.39	1.0	12/13/10 11:01	
Ethylbenzene	ug/L	<0.41	1.0	12/13/10 11:01	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	12/13/10 11:01	
Naphthalene	ug/L	<0.40	1.0	12/13/10 11:01	
Toluene	ug/L	<0.42	1.0	12/13/10 11:01	
Xylene (Total)	ug/L	<1.3	3.0	12/13/10 11:01	
a,a,a-Trifluorotoluene (S)	%	102	80-120	12/13/10 11:01	

LABORATORY CONTROL SAM	PLE & LCSD: 395327		39	95328		•				
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.4	19.2	97	96	80-120	.9	20	
1,3,5-Trimethylbenzene	ug/L	20	19.2	19.1	96	95	80-120	.9	20	
Benzene	ug/L	20	19.7	20.1	99	100	80-120	2	20	
Ethylbenzene	ug/L	20	19.7	19.5	98	98	80-120	.7	20	
Methyl-tert-butyl ether	ug/L	20	20.3	20.4	102	102	80-120	.4	20	
Naphthalene	ug/L	20	19.5	19.1	97	96	80-120	2	20	
Toluene	ug/L	20	19.7	19.7	99	99	80-120	.02	20	
Xylene (Total)	ug/L	60	58.7	58.3	98	97	80-120	.7	20	
a,a,a-Trifluorotoluene (S)	%				102	101	80-120			

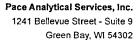
MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 395457				395458									
	4	040676005	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec	Max			
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
1,2,4-Trimethylbenzene	ug/L	975	200	200	1230	1150	126	86	31-178	7	20		
1,3,5-Trimethylbenzene	ug/L	137	200	200	344	327	103	95	66-145	5	20		
Benzene	ug/L	<3.9	200	200	208	201	104	101	23-177	3	20		
Ethylbenzene	ug/L	178	200	200	387	369	104	95	63-144	5	20		
Methyl-tert-butyl ether	ug/L	24.8	200	200	221	218	98	97	80-120	1	20		
Naphthalene	ug/L	139	200	200	340	333	101	97	63-140	2	20		
Toluene	ug/L	<4.2	200	200	210	205	105	103	53-164	2	20		
Xylene (Total)	ug/L	287	600	600	898	860	102	95	41-166	4	20		
a,a,a-Trifluorotoluene (S)	%						103	103	80-120				

Date: 12/20/2010 03:52 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 7 of 10





(920)469-2436



#### **QUALITY CONTROL DATA**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

QC Batch:

MPRP/4888

Analysis Method:

EPA 6010

QC Batch Method:

EPA 3010

Analysis Description:

6010 MET

Associated Lab Samples:

METHOD BLANK: 396045

Matrix: Water

Associated Lab Samples:

4040689001

4040689001

Blank Result

Reporting Limit

Analyzed

Qualifiers

Lead

ug/L

<1.4

12/16/10 11:26

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

Parameter

396046

Units

Units

4040655002

Result

Spike

LCS Result % Rec

396048

% Rec Limits

Qualifiers

Lead

ug/L

Units

500

Conc.

MS

488

98 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

100

MSD

MSD Result

LCS

MS % Rec

MSD % Rec % Rec Limits

Max RPD RPD

Qual

ug/L Lead

Spike Spike Conc.

Conc. 500 500

MS Result 580

577

96

95 75-125

.5

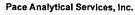
20

Date: 12/20/2010 03:52 PM

**REPORT OF LABORATORY ANALYSIS** 

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







1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

#### **QUALIFIERS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

#### **DEFINITIONS**

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

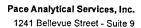
Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

#### **LABORATORIES**

PASI-G Pace Analytical Services - Green Bay

Date: 12/20/2010 03:52 PM





Green Bay, WI 54302



(920)469-2436

#### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4040689

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4040689001	PW-1	WI MOD GRO	GCV/6018		
4040689002	TRIP BLANK	WI MOD GRO	GCV/6018		
4040689001	PW-1	EPA 3010	MPRP/4888	EPA 6010	ICP/4166

Date: 12/20/2010 03:52 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 10 of 10

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



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

# Pace Analytical

# Sample Condition Upon Receipt

Client Name:	San	a E	- Environu	wental Pro	oject #	4040689
Courier: Fed Ex T UPS T USPS T (	, ,			Other		
Tracking #:	3.13.11 <b>y</b> 001	minoro	idi ) lace	Ollici		
Custody Seal on Cooler/Box Present:  yes	厂 no	Seals	intact: / yes	s I no	Option	nale "Raum "Affire", ja ja ve
Custody Seal on Samples Present: yes			intact: Tye		17 Y 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dué/Date:
	•	~ Non		7	N. 11 (1.80%)	vame:
Thermometer Used NA	-	~\	Blue Dry Non	ie 🗹	Facility - Property	oling process has begun
Cooler Temperature ROX	-		is Frozen:	,		5 process and 2 5 gain
Temp Blank Present: yes no			T	no	Person examining	contents:
Temp should be above freezing to 6°C for all sample excellents Samples should be received ≤ 0°C.	ept Biota.	-	Comments:		Date:	11-10
Chain of Custody Present:	QYes □No	□N/A	1.		•	
Chain of Custody Filled Out:	ØYes □No				,	
Chain of Custody Relinquished:	ØYes □No	□N⁄A	3.			
Sampler Name & Signature on COC:	ZYes □No	□n⁄a	4.			
Samples Arrived within Hold Time:	Yes 🗆 No					
Short Hold Time Analysis (<72hr):	□Yes ☑No	□N/A	6.			
Rush Turn Around Time Requested:	□Yes 🗹 No	□N⁄A	7.	<del></del>		
Sufficient Volume:	ZYes □No	□n/a	8.			
Correct Containers Used:	✓Yes □No	□N⁄A	9.			
-Pace Containers Used:	ZYes □No	□n/a			····	
Containers Intact:	ZYes □No	□n/a	10.			
Filtered volume received for Dissolved tests	☐Yes ☑No	□n/a	11.			
Sample Labels match COC:	✓Yes □No	□N/A	12.			
-Includes date/time/ID/Analysis Matrix:	'W	_				
All containers needing preservation have been checked.	D√res □No	□n/a			<del></del>	
All containers needing preservation are found to be in	// .		10.		•	
compliance with EPA recommendation.	ØYes □No	□n/a				····
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No		Initial when completed	F	Lot # of added preservative	
Samples checked for dechlorination:	□Yes □No	<b>⊠</b> N⁄A	14.			
Headspace in VOA Vials ( >6mm):	□Yes ☑No	□N/A	15.			
Trip Blank Present:	✓Yes □No	□n/a	16.			•
Trip Blank Custody Seals Present	Yes 🗆 No	□N⁄A				
Pace Trip Blank Lot # (if purchased):						
Client Notification/ Resolution:					Field Data Require	d? Y / N
Person Contacted:		_Date/	Time:			
Comments/ Resolution:						
	<del></del>		<del></del>		····	
	<del></del>		<del></del>		<del></del>	
Project Manager Review:	(p)	$\mathcal{A}$			Date:	12/13/10

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

W\* 4 \* 6

## **CLOSE OUT FORM**

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04 (1)(m)]

A. Commerce Number: 5 3 1 5 6 9 6 8 8	0 3
DNR BRRTS Number: 0 3 - 2 8 - 2 2 8 5 8	<u> </u>
B. Site Information (property deed required for sites with residual co	entamination)
	Date Received
Name: Jeffery Property Address: W1003 County Rd CI	(office use only)
Address: W1003 County Nd Ci City: Sullivan, WI	
C. Responsible Party (RP) Information	
Contact Name: Thomas Jeffery	
Business Name (if applicable):	
Mailing Address: 3716 E. Jacobs Dr	
City, State, Zip Code: Milton, WI 53563	
Telephone:(262) 472-5124	Proposed Public Notification and Fee
D. Property Owner Information (if different from RP)	Payment Confirmation
Contact Name:	(Check all that apply)
Business Name (if applicable):	None
Mailing Address:	DNR Soil GIS Registry
City, State, Zip Code:	Registry fee sent to DNR? Yes
Telephone:	DNR GW GIS Registry
E. Consulting Firm Information	Registry fee sent to DNR? Yes
Contact Name: Paula Richardson	DNR GW GIS Registry - improperly
Firm Name: Saga Environmental and Engineering, Inc.	abandoned monitoring well(s)
Mailing Address: 146 E. Milwaukee St	Registry fee sent to DNR? Yes
our out 7: Out lefferson WI 53549	(Only one GW Registry fee per site.)
Telephone: (920) 674-3411	
Electronic Mail Address: prichardson@saga-ee.com	
I certify by my signature that I am the environmental consultant on this site information relating to the remediation at this site, that the information cont is true and accurate, and that it is my professional opinion that this site me be signed by a professional listed below that is currently licensed by the De	ained in this form and following correspondence ets all regulatory requirements for closure. (Must
Consultant Signature: Pan 7 Date:	2/22/11
Check One:	PAULA A. RICHARDSON G-1256 JEFFERSON C
Professional Engineer License #	
Professional Geologist License # 1,256	III di manococca di la companya di l
Hydrologist License #	PAULA A TAI
Soil Scientist License #	RICHARDSON \
F. Other Interested Party(s) (attach additional sheets if necessary)	JEFFERSON WIS.
Name: Mailing Address:	- INVAL STATE
City, State, Zip Code:	
Telephone:	
Reason for interest:	



# BRRTS on the Web Activity Details for JEFFERY PROPERTY

Printed Tue, 22 Feb 2011 01:56:52 CST

Activity No: 03-28-228585

**Activity Name: JEFFERY PROPERTY** 

Type: LUST
Status: OPEN

Jurisdiction: COMMERCE Start Date: 08/27/1999 End Date: 00/00/0000

Last Action: 02/14/2011

Location: JEFFERY PROPERTY

FID: 268568190

Address: W1003 CNTY HWY CI

Municipality: PALMYRA

County: JEFFERSON

WI Region:

Commerce No: 53156968803

EPA ID:

Risk: MEDIUM
Plot Size: UNKNOWN

Comments: \*\*\* TRANSFERRED TO COMMERCE - ACTIVITY NO LONGER UNDER DNR

**JURISDICTION \*\*\*** 

EPA NPL?: No

Commerce Tracked?: Yes

PECFA Eligible?: No

AST?: No

Drycleaner?: No

Co-Contamination?: No

Geo-Located?:

PLSS: NW 1/4 of the SE 1/4 of Sec 34, T06N, R16E

#### Actions

Date	Name	Comment
08/27/1999	Notification	-
10/25/1999	RP Letter Sent	-
11/01/1999	Tank Closure Environmental Site Assessment Rpt Received	
05/04/2000	RP Letter Sent/2	_

07/12/2007	Push Action Taken	-	
07/15/2009	Push Action Taken/2	-	
12/29/2009	Notice of Noncompliance (NON)	•	
04/22/2010	Miscellaneous	RSV IS WORKING W SIGNING CONTACT :	
02/14/2011	Activity Transferred to WI Dept. of Comm	nerce -	
	Impa	ncts	
Туре	Comment		
Soil Contami			
Tuna	Scor	-	Saara
Туре		Date	Score
	Substa		
Substance N	9 2	· Re	eleased Amt
Gasoline - Ur	nleaded and Leaded Petroleum		
	Spill	Info	
Incident Dat	e Reported Date Investigator Source	e	
-			
A - 4*	Spiller A		
Action	Comment		
<u> </u>			
	Wr	10	
Project Man			
	OF COMMERCE (DCOM) 201 V	WEST WASHINGTO	N AVE MADISON,
WI 53703			
Responsible	e Party:		

BRRTS data comes from various sources, both internal and external to DNR. There may be ommissions and errors in the data and possible delays in updating new information. Please see the legal notices and disclaimers page on BRRTS on the Web for more information.

(PERSONAL IDENTIFIABLE INFORMATION WITHHELD)

ERS Tracker on the Web Page 1 of 2

#### Return to Search screen

#### Site Data

Commerce Number 53156-9688-03

Site Name Jeffery Property

Site Address W1003 County Rd CI

Site City Palmyra

#### Disclaimer:

Claim

Νo

Claim

Type

Claim

Audit

Line Date

The information you are viewing is from the current PECFA database. Some of this data, including but not limited to, eligibility, tank type and maximum reimbursement amount, is subject to change based on new information that is received.

#### **Occurrence Data**

Link to Web Report Data						
O	Α			File Location:	DNR	
Occurre	nce Name:	Jeffery Pr	operty		File Transfer Date:	
•	Tank Type:	USTM		N	Max. Reimbursement:	\$190,000.00
Comm Notifica	ation Date:	05/18/20	10		PECFA Eligibility:	<b>▽</b> ,
	MtBE:	Not Detec	ted		MtBE ug/L:	
Clo	osure Flag:				Closure Date:	
Fina	l Payment:				BRRTS No:	0328228585
DNR Notifica	ation Date:	08/27/19	99		Occurrence ID:	19748
Cor Media-Gro			Cont	aminated Media-Soil:		
GIS Regi				GIS Registry (Soil):		
GIS Registry Fee			GIS Re	gistry Fee Paid (Soil):		
	SIR Date:					
	\$60K Flag:				\$60K Failure:	
	\$80K Flag:				\$80K Failure:	
Claim Liabi	lity Status:	200- LIAE	BILITY-WILL FILE		Occ Class Rqd:	<b>17</b> ,
					Date Received:	05/18/2010
Site Review Da	ta					
Submittal Received Type Date	d Revie Date	wed s	tatus .	Total Approved Amount	Reviewer	Sub Type
CON 07/01/2	010 07/07	7/2010			Shawn Wenzel	Execute
Claims Data						

Submitted Check Out

**Amount Date** 

Completed

Date

Planned

Paid

Date

Paid

Date

**Amount** 

Paid

Claim Totals					
Submitted	Paid	Claims	Deduct		
		1	\$0.00		

Return to Search screen

#### Wenzel, Shawn A - COMMERCE

From: Paula Richardson [prichardson@saga-ee.com]

Sent: Tuesday, February 22, 2011 2:42 PM

To: Wenzel, Shawn A - COMMERCE

Subject: RE: Closure Request for Commerce #53156-9688-03

Shawn,

I received a letter from the WDNR saying that the file had been transferred, but apparently the physical file has not. I believe Randy Maass had it last. Please let me know when you receive it.

Regards,



#### Paula A. Richardson, P.G.

Vice President/ Hydrogeologist

From: Wenzel, Shawn A - COMMERCE [mailto:Shawn.Wenzel@Wisconsin.gov]

Sent: Tuesday, February 22, 2011 2:00 PM

**To:** Paula Richardson **Cc:** Jeffery, Thomas C

Subject: RE: Closure Request for Commerce #53156-9688-03

Thanks.

I cannot finalize my review until the transfer process is complete. I see that DNR has is listed on their site as being transferred.

#### Shawn A. Wenzel, Senior Hydrogeologist

Department of Commerce PECFA Bureau
Environmental & Regulatory Services Division
Site Review Section, Madison
Phone (608) 261-5401
Fax (608) 267-1381
<a href="http://www.commerce.wi.gov/ER/ER-PECFA-Home.html">http://www.commerce.wi.gov/ER/ER-PECFA-Home.html</a>

Learn more about your site at <u>Tracker On The Web</u> Commerce is on Facebook, Twitter, LinkedIn, YouTube, etc. <a href="http://commerce.wi.gov/SocialMedia">http://commerce.wi.gov/SocialMedia</a>

From: Paula Richardson [mailto:prichardson@saga-ee.com]

Sent: Tuesday, February 22, 2011 1:42 PM

To: Wenzel, Shawn A - COMMERCE

Cc: Jeffery, Thomas C

Subject: Closure Request for Commerce #53156-9688-03

Good Afternoon Shawn,

Please find attached a Closure Request for the Jeffery Property located at W1003 County Road CI, Sullivan, WI for your review. I will send a hard copy in the mail this afternoon or tomorrow morning as well.

Please feel free to call me with any questions you may have.

Regards,



Paula A. Richardson, P.G. Vice President/ Hydrogeologist

146 E. Milwaukee Street Jefferson, WI 53549 Ph. 920-674-3411 Cell 920-605-6073 Fax 920-674-3481

email: prichardson@saga-ee.com

CONFIDENTIALITY NOTICE: This electronic mail transmission and any accompanying documents may contain confidential and legally privileged information. If you are not the intended recipient, you are strictly prohibited from any disclosure, copying, distribution, or storage of the contents of the information contained in the transmission. If you have received this transmission in error, please notify the sender and delete the message. Thank you.

#### Wenzel, Shawn A - COMMERCE

From:

Paula Richardson [prichardson@saga-ee.com]

Sent:

Tuesday, February 22, 2011 1:42 PM

To:

Wenzel, Shawn A - COMMERCE

Cc:

Jeffery, Thomas C

Subject:

Closure Request for Commerce #53156-9688-03

Attachments: 110222 Jeffery Commerce Closure Request.pdf

Good Afternoon Shawn,

Please find attached a Closure Request for the Jeffery Property located at W1003 County Road CI, Sullivan, WI for your review. I will send a hard copy in the mail this afternoon or tomorrow morning as well.

Please feel free to call me with any questions you may have.

Regards,



## Paula A. Richardson, P.G.

Vice President/ Hydrogeologist

146 E. Milwaukee Street Jefferson, WI 53549 Ph. 920-674-3411 Cell 920-605-6073 Fax 920-674-3481

email: prichardson@saga-ee.com

#### Return to Search screen

### Site Data

Commerce Number 53156-9688-03

Site Name Jeffery Property

Site Address W1003 County Rd CI

Site City Palmyra

#### Disclaimer:

The information you are viewing is from the current PECFA database. Some of this data, including but not limited to, eligibility, tank type and maximum reimbursement amount, is subject to change based on new information that is received.

#### **Occurrence Data**

Link to Web Report Data							
Occurrence:	A	File Location:	DNR				
Occurrence Name:	Jeffery Property	File Transfer Date:					
Tank Type:	USTM	Max. Reimbursement:	\$190,000.00				
Comm Notification Date:	05/18/2010	PECFA Eligibility:	F				
MtBE:	Not Detected	MtBE ug/L:					
Closure Flag:		Closure Date:					
Final Payment:		BRRTS No:	0328228585				
DNR Notification Date:	08/27/1999	Occurrence ID:	19748				
Contaminated Media-Groundwater:		Contaminated Media-Soil:					
GIS Registry (GW):		GIS Registry (Soil):					
GIS Registry Fee Paid (GW):		GIS Registry Fee Paid (Soil):					
SIR Date:							
\$60K Flag:		\$60K Failure:					
\$80K Flag:		\$80K Failure:					
Claim Liability Status:	200- LIABILITY-WILL FILE	Occ Class Rqd:	<b>₽</b>				
		Date Received:	05/18/2010				
e Review Data							
mittal Received Reviewed Total Approved							

## Sit

Submittal Type	Received Date	Reviewed Date	Status	Total Approved Amount	Reviewer	Sub Type
CON	07/01/2010	07/07/2010			Shawn Wenzel	Execute

#### Claims Data

Claim No	Claim Type	Audit Line Date	Submitted Check Out Amount Date	Completed Date	Amount Paid	Paid Date	Planned Paid Date
<u>1</u>	Claim						

Claim Totals					
Submitted	Paid	Claims	Deduct		
		1	\$0.00		

Return to Search screen



# BRRTS on the Web Activity Details for JEFFERY PROPERTY

Printed Tue, 1 Mar 2011 11:01:18 CST

Activity No: 03-28-228585

**Activity Name: JEFFERY PROPERTY** 

Type: LUST Status: OPEN

Jurisdiction: COMMERCE Start Date: 08/27/1999 End Date: 00/00/0000 Last Action: 02/14/2011

Location: JEFFERY PROPERTY

FID: 268568190

Address: W1003 CNTY HWY CI

Municipality: PALMYRA

County: JEFFERSON

WI Region:

Commerce No: 53156968803

EPA ID:

Risk: MEDIUM
Plot Size: UNKNOWN

Comments: \*\*\* TRANSFERRED TO COMMERCE - ACTIVITY NO LONGER UNDER DNR

JURISDICTION \*\*\*

EPA NPL?: No

Commerce Tracked?: Yes

PECFA Eligible?: No

AST?: No

Drycleaner?: No

Co-Contamination?: No

Geo-Located?:

PLSS: NW 1/4 of the SE 1/4 of Sec 34, T06N, R16E

#### Actions

Date	Name	Comment
08/27/1999	Notification	-
10/25/1999	RP Letter Sent	-
11/01/1999	Tank Closure Environmental Site Assessment Rpt Received	-
05/04/2000	RP Letter Sent/2	-

Responsible Party:

07/12/2007	Push Action Taken	-
07/15/2009	Push Action Taken/2	-
12/29/2009	Notice of Noncompliance (NON)	-
04/22/2010	Miscellaneous	RSV IS WORKING WITH RP - WILL BE SIGNING CONTACT SOON
02/14/2011	Activity Transferred to WI Dept. of Comm	nerce -
•	Imp	acts
Туре	Comment	
Soil Contami	nation -	
Tuno	Sco	ring Date Score
Туре		Date Score
	Subst	ances
Substance N		Released Amt
Gasoline - U	nleaded and Leaded Petroleum	
	Spill	Info
Incident Dat	e Reported Date Investigator Sour	ce
<del>-</del>		
	Spiller.	Actions
Action	Commen	t
<del>[</del>	w	ho
Project Man	ager:	
		WEST WASHINGTON AVE MADISON,
WI 53703	ı	

BRRTS data comes from various sources, both internal and external to DNR. There may be ommissions and errors in the data and possible delays in updating new information. Please see the legal notices and disclaimers page on BRRTS on the Web for more information.

(PERSONAL IDENTIFIABLE INFORMATION WITHHELD)

TTY: Contact Through Relay Fax: (608) 267-1381 Scott Walker, Governor Paul F. Jadin, Secretary



March 11, 2011

Thomas Jeffery W1003 County Rd Cl Palmyra, WI 53156

RE:

**Closure Denied** 

**Commerce # 53156-9688-03-A**DNR BRRTS # 03-28-228585

Jeffery Property, W1003 County Rd Cl, Palmyra

Dear Mr. Jeffery:

On March 2, 2011, the Wisconsin Department of Commerce (Commerce) received the case file and a request for case closure prepared by your consultant, Saga Environmental & Engineering, Inc., for the site referenced above. Commerce has determined that this case cannot be closed until you provide additional information and address the following concerns:

- A water sample must be collected from the sump in the basement and laboratory analyzed. The water sample should be laboratory analyzed for PVOC, Naphthalene, and Lead.
- Figures should be revised to include the location of the sump, and the potable well associated with this site.
- Groundwater data tables should be revised to include the new data, and the current ground water standards (revised by DNR 1/1/11 Toluene and Xylenes).
- The site is required to be included in the DNR GIS Registry site due to the soil contamination identified during the tank closure assessment. The DNR GIS Registry fee must be paid directly to the DNR.

Upon completion of the work referenced above, the groundwater lab data (lab report) should be submitted to Commerce for review, along with a brief summary of the work completed, and revised tables and figures. If the laboratory data indicates no impacts to the water, submit a complete soil GIS Registry packet. If the water is determined to be impacted, submit the above mentioned information for review, and recommendations for additional work to address the impacted water.

State Statute 101.143 allows for a PECFA claim to be submitted if at least \$50,000 in unclaimed eligible costs has been incurred and no claim has been submitted during the previous 12 months. This site appears to meet this claim milestone. Consequently, Commerce suggests that you submit a claim as soon as possible so that unwarranted PECFA loan costs are not incurred.

Thank you for your efforts to move this case toward closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (608) 261-5401.

Sincerely.

Shawn A. Wenzel Senior Hydrogeologist Site Review Section

cc: Paula Richardson, Saga Environmental & Engineering. Inc.

# Wenzel, Shawn A - COMMERCE

From:

Paula Richardson [prichardson@saga-ee.com]

Sent:

Monday, April 25, 2011 1:45 PM

To:

Wenzel, Shawn A - COMMERCE

Cc:

Jeffery, Thomas C

Subject:

Jeffery Property Closure Request - Additional Information - 53156-9688-03

Follow Up Flag: Follow up

Due By:

Wednesday, April 27, 2011 10:30 AM

Flag Status:

Red

Attachments:

110425 Jeffery Commerce Closure Request.pdf

Good Afternoon Shawn,

Please find attached a revised closure request for the Jeffery Property site in Sullivan, WI. I also put a hard copy of the letter report into the mail this afternoon, so you should receive that shortly.

Please feel free to call me with any questions you may have following your review.

Regards,

Paula



# Paula A. Richardson, P.G.

Vice President/ Hydrogeologist

146 E. Milwaukee Street Jefferson, WI 53549 Ph. 920-674-3411 Cell 920-605-6073 Fax 920-674-3481

email: prichardson@saga-ee.com



APR 2.5 2011
ERS DIVISION

April 25, 2011

Mr. Shawn Wenzel Wisconsin Department of Commerce – PECFA Bureau Environmental & Regulatory Services Division P.O. Box 8044 Madison, Wisconsin 53708-8044

RE: Closure Request Addendum

Jeffery Property at W1003 County Road CI

Palmyra, Wisconsin

Commerce #53156-9688-03 BRRTS#03-28-228585

### Dear Mr. Wenzel:

Saga Environmental and Engineering, Inc. (Saga) is pleased to present this closure request addendum summarizing additional environmental site investigation at the above referenced site (site) and justification for case closure. Initial site investigation activities conducted by Saga were detailed in Saga's February 22, 2011 Closure Request and are summarized briefly below.

# **November 2010 Investigation**

Saga mobilized a Geoprobe drill rig to the site on November 15, 2010 to conduct soil borings in the area where contamination had previously been detected during widening of the adjacent roadway in 1999. Saga completed five soil borings at the site at the approximate locations shown on the attached map (Attachment A), each to an approximate depth of ten feet below ground surface (bgs). Saga had planned to install a boring within the former tank bed at that time; however, the drill rig could not access that area as a large juniper tree occupied that area at the time. Soil samples were collected continuously, soil descriptions were logged by a registered professional geologist, and unsaturated samples were screened for volatile organic vapors using a photoionization detector (PID) for possible laboratory analyses.

Groundwater was encountered at about 5 feet bgs in each boring. Soils logged in the borings generally consisted of sand and silt. Based on PID readings and visual and olfactory observations, there were no indications of impacts in the unsaturated zone. Therefore, no soil samples were collected. Groundwater samples were collected from each location and submitted for petroleum volatile organic compounds (PVOCs) and dissolved lead (Table 1). Groundwater samples were also collected from the onsite potable well and submitted for the same analyses.

# **November 2010 Investigation Results**

No PVOCs or dissolved lead were detected above their respective WAC ch. NR140 enforcement standards (ESs) in any groundwater sample collected, and no PVOCs or dissolved lead were detected in the water sample collected from the potable well (Table 1 and Attachment B). The concentration of lead detected in the groundwater sample collected from soil boring SB104 slightly exceeded the WAC ch. NR140 preventive action limit (PAL) of 1.5  $\mu$ g/L at a concentration of 2.0  $\mu$ g/L. In addition, benzene was detected at 0.5  $\mu$ g/L (equal to the benzene PAL) in the groundwater sample collected from soil boring SB103. Benzene was not detected in the groundwater sample collected from soil boring SB104. However, the sample was diluted due to matrix interference and the detection limit exceeded the PAL. No other parameters exceeded their respective PALs in the groundwater samples collected from the site.

Free product was not observed at any time during site investigation activities.

Shallow groundwater flow in the vicinity of the subject property is expected to be west, toward an unnamed creek, based on local topography. However, as the on-site building has a basement and groundwater is shallow, the basement and its foundation drain sump are expected to impede or capture groundwater flow to the west in the former tank bed area. Therefore, although no explicitly downgradient groundwater samples have been collected, it is expected that any petroleum-related contamination originating in the former tank bed area would stagnate in the area immediately surrounding the former tank bed, which has been adequately characterized.

Based on site investigation data, Saga concluded that only low-level residual groundwater contamination below NR 140 ESs remains at the site and that historical concentrations of GRO and DRO detected in saturated soil samples were likely representative of a combination of soil and groundwater conditions at that time. As more than a decade has elapsed since the soil samples were collected and the source of contamination has been removed, the moderately permeable sands and silt at the site coupled with the shallow depth to groundwater are expected to be conducive to natural attenuation of petroleum-related contaminants in the subsurface by aerobic degradation and dispersion. Therefore, the residual, low-level (below the ES) groundwater contamination remaining at the site is expected to be reduced to non-detectable levels within a reasonable timeframe. Consequently, Saga determined that no further investigation or remediation is necessary at the site, and requested site closure at that time.

# March 2011 Closure Denial and Commerce Request for Additional Information

On March 11, 2011 Saga was contacted by Mr. Shawn Wenzel at the Department of Commerce (Commerce) who notified us that the request for "clean" closure had been denied. Mr. Wenzel indicated that a water sample would need to be collected from the basement sump and submitted for laboratory analysis of PVOCs + naphthalene and dissolved lead, in order to further assess the potential for migration of contaminants into the groundwater beneath the building and/or vapor intrusion before closure would be granted. Mr. Wenzel indicated that if this data came back with favorable results (i.e. no contaminant concentrations above the ES), closure could be granted with a GIS registration for soil



contamination. In addition, as an optional task, Mr. Wenzel also indicated that if Mr. Jeffery wished to cut the juniper bush down and have Saga collect a soil sample from the same location and depth as the sample collected in 1999 that had contained GRO/DRO concentrations exceeding W.A.C. NR 746 residual contaminant levels (RCLs), a "clean" closure of the site could be granted if the analytical results of that sample were below RCLs.

As "clean" closure without restrictions was important for Mr. Jeffery, who plans to sell the property, Saga recommended collecting the soil sample along with the sump water sample to confirm that no soil contamination above W.A.C. RCLs is present at the site.

# **April 2011 Site Investigation**

1

On April 11, 2011, Saga collected a sample of the water in the basement sump at the property and submitted it to Pace Analytical Laboratories for laboratory analysis of PVOCs + naphthalene and dissolved lead. Laboratory analytical reports are included in Attachment C.

Saga also mobilized a Geoprobe drill rig to the Jeffery property to advance one soil boring (SB106, Attachment A) in the approximate location that soil sample S-3 had been collected in 1999 (Mr. Jeffery had cut the juniper shrubs and cleared the boring location previous to drilling activities commencing). Saga advanced the boring to an approximate depth of 8 feet bgs and collected one soil sample from the 7.5 feet to 8 feet interval (same depth as S-3 sample) for analysis of GRO and DRO. No staining or odors were noted at any time during drilling. The soil boring log and abandonment form are included in Attachment B.

# **April 2011 Results and Conclusion**

No petroleum-related compounds or lead were detected in either the sump water sample or soil sample. As more than a decade has elapsed since the 1999 soil samples were collected and the source of contamination has been removed, the moderately permeable sands and silt at the site coupled with the shallow depth to groundwater have been conducive to natural attenuation of petroleum-related contaminants in the subsurface by aerobic degradation and dispersion, as expected. Therefore, the residual, low-level (below the ES) groundwater contamination remaining at the site are expected to be reduced to non-detectable levels within a reasonable timeframe. Consequently, Saga determines that no further investigation or remediation is necessary at the site, and we respectfully request site closure at this time. We also request a PAL exemption for the detection of lead at a concentration exceeding the PAL in the groundwater sample collected from soil boring SB-104. The source of the lead has been removed and lead was not detected in the water samples collected from either the sump or on-site potable well.

\* \* \*

Should you have any questions regarding the information in this document, please contact the undersigned at 920-674-3411.



Sincerely,

i

Saga Environmental and Engineering, Inc.

Paula A. Richardson, P.G

Pan A Pri

Vice President/ Hydrogeologist

Enclosures:

Table 1

Attachments A through C



# TABLE 1 GROUNDWATER ANALYTICAL SUMMARY JEFFERY PROPERTY PALMYRA, WI Concentrations in µg/L

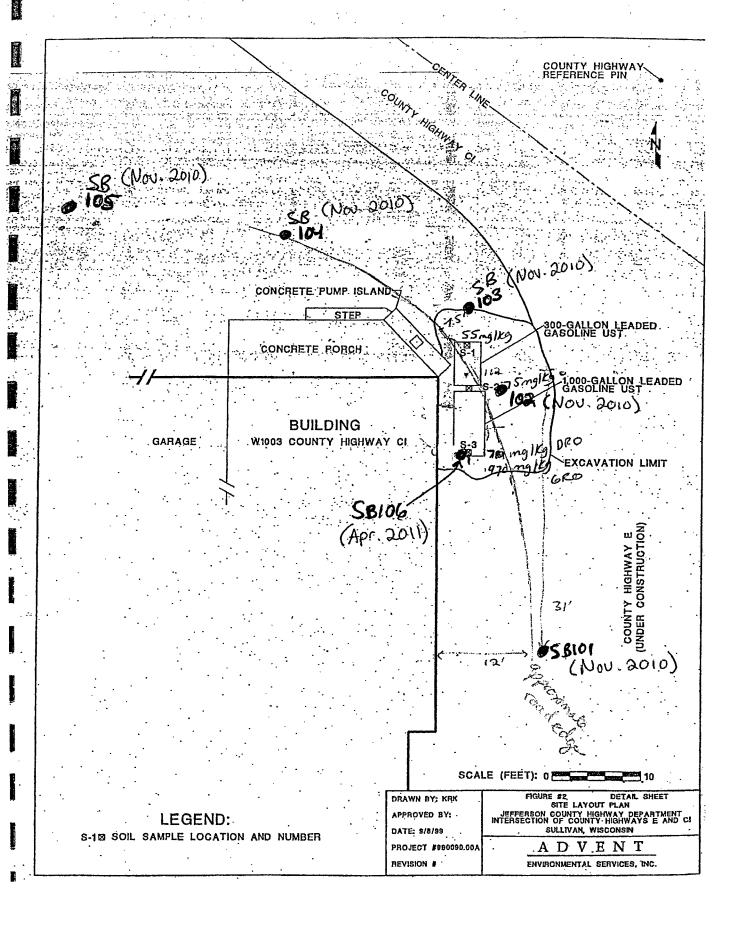
				Volatile	Organic Com	pounds (VOC	s; µg/L)			
Sample ID	Date	Benzene	Ethylbenzene	Toluene	Xylenes	Methyl tert-butyl ether	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	Lead, Dissolved (µg/L)
					Code NR 140				10	
	40 PAL	0.5	140	200	1,000	12		96		1.5
NK NK	140 ES	5	700	1,000	10,000	60	48	30	100	15
CD404	44/45/0040	0.40			Monitoring We		-0.46	-0.40	10.40	
SB101	11/15/2010	0.42	<0.41	0.85	<1.3	<0.38	<0.43	<0.40	<0.40	
SB102	11/15/2010	<0.39	<0.41	0.62	<1.3	<0.38	<0.43	<0.40	<0.40	<1.7
SB103	11/15/2010	0.50	0.45 J	1.4	<1.3	<0.38	<0.43	<0.40	<0.40	<1.7
SB104	11/15/2010	<0.78	17.3	<0.76	21.4	<0.76	14.1	7.1	4.9	<u>2.0</u>
SB105	11/15/2010	0.45	2.8	1.0	<1.3	<0.38	<0.43	<0.40	<0.40	<1.7
		· · · · · · · · · · · · · · · · · · ·		Pota	able Well Sam	ole	<del></del>			
PW-1	12/9/2010	<0.39	<0.41	<0.42	<1.3	<0.38	<0.43	<0.40	<0.40	<1.4
				Sun	np Water Sam	ole				
Sump	4/11/2011	<0.39	<0.41	<0.42	<1.3	<0.38	<0.43	<0.40	<0.40	<1.7

# Notes:

0.50 : Concentration meets or exceeds NR 140 PAL.

μg/L: Micrograms per liter.
PAL: Preventive Action Limit.
ES: Enforcement Standard.

<0.20 : Analyte not detected above limit of detection shown.



State of Wisconsin Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Rome To: Remediation/Revelopment D Other Pacility/Project Name
Te-ffer y License/Permit/Monitoring Number Boring Numbe Teffery Property
Boring Drilled By: Dame of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed | Drilling Method First Name: Dusty Geoprobe Wi Unique Well No. nuironune Borehole Diameter Final Static Water Level Surface Elevation Feet MSL Feet MSL inches Local Grid Origin [ (estimated: [] ) or Boring Location [] Local Grid Location State Plane DE Feet D S Feel W 1/4 of 1/4 of Section Long Facility ID Civil Town/City/ or Village County Code County effers on Soil Properties Sample Depth in Feet (Below ground rucks Recovered (in) Sail/Rock Description Blow Counts Length Att. And Geologic Origin For Graphic Log Well Diogram Compressi Strength Each Major Unit 0'-1' Topsoil, Silt w/sand, dark brown, st. moist, no oder 1'- 1' Sand (SP), yellowish-brown, fine to med. sand, Very moist, no odor or 7-8' Silt (ML), Light Grayish brown, wet, us odor or Staining Sample for GRO/DRO @7.5'-8' End of Boring@8'

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

Signature

Firm

Saga Environmental 7 Exp.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

dir.wi.gov	sources		Well / Drillhole / Borehole Filling & Sealing
with chs. 281, 289, 291-293, 295,	and 299, Wis. Stats and conduct involved	., fallure to file this for . Personally identifiab istructions on reverse	Form 3300-005 (R 4/08) Page 1 of 2 -293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance in may result in a forfeiture of between \$10-25,000, or imprisonment for up to one ole information on this form is not intended to be used for any other purpose. Return for more information.
Verification Only of FI		Route to:  Drinking Water  Waste Manage	ement Other:
1. Well Location Information			2 Facility Owner Information
	nique Well # of ved Well	Hleap# boring# SBIDG	Jettery Property
Lattitude / Longitude (Degrees a	nd Minutes) Method		ns) Facility ID (FID or PWS)
•	'N 'W		License/Permit/Monitoring #
7/17/4		nship Range	E Original Well Owner
or Gov't Lot#	-	· / - <u>    </u>	7 corrus Jestery
Well Street Address	!	^`\L	Thomas Jeffery
Well City, Village or Town	· · · · · · · · · · · · · · · · · · ·	Well ZIP Code	Mailing Address of Present Owner
			City of Present Owner State ZIP Code
Subdivision Name		Lot#	Palmyra WI 53156
Reason For Removal From Servi	Les Mil Moleuro Molif	# of Replacement We	And a manifest handout and invitable authorities above as a sense an artifact not sell and estimation in the
Reason For Removal From Serv	ICE AN OUNDER MEN	# of Kehiacement we	Pump and piping removed?
3 Well / Orillhole / Borehole	Information		
and the second s			
Manitoring Well	1		Casing left in place?
Water Well		ion Report is available	
	Water Well    If a Well Construction Report is please attach.		Did sealing material rise to surface?
Construction Type:			Did material settle after 24 hours?
Drilled Driven	(Sandpoint)	Dug	If yes, was hole retopped? $\square_{Yes}$ $\square_{No}$ $\boxtimes_{N/A}$
Other (specify):			— If bentonite chips were used, were they hydrated with water from a known safe source?  ☐ N/A
Formation Type:			Required Method of Placing Sealing Material
Unconsolidated Formation	Bedro	ck	Conductor Pipe-Gravity Conductor Pipe-Pumped
Total Well Depth From Ground S	urface (ft.) Casing t	Diameter (in.)	Screened & Poured Other (Explain):
			Sealing Materials
Lower Drillhole Diameter (in.)	Casing I	Depth (fl.)	Neat Cement Grout Clay-Sand Sturry (11 lb./gal. wt.)
		<u> </u>	Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " * Concrete Bentonite Chips
Was well annular space grouted?	Yes	⊠No □Unknov	m Eor Monitoring Wells and Monitoring Well Boreholes Only:
If yes, to what depth (feet)?	Depth to Wate	er (feet)	Bentonite Chips Bentonite - Cement Grout  Granular Bentonite Bentonite - Sand Slurry
5. Material Used To Fill Well /	Drillh <b>ole</b>		From (ft.) To (ft.) No Yards Sacks Sealant Mix Ratio or or Volume (circle one) Mud Weight
Granu	lar Bento	nite	Surface &
6. Comments			
7. Supervision of Work			DNR Use Only
Name of Person or Firm Doing Fi		ense# Date of	Filling & Sealing (mm/dd/yyyy) Date Received Noted By
Saga Environmen	tal + Enort.		4/11/11
Street or Route	1. 1.	# 10 ·	Telephone Number Comments
146 E. Milwa	ukee St. 7	120	(920) 674-3411
City Tellocom	State	ZIP Code	Signature of Person Doing Work Date Signed
Saga Environments Street or Route  146 E. Milwa  City  Seffesson		<u> </u>	1 1100





April 20, 2011

Paula Richardson Saga Environmental and Engineering, Inc. 146 E. Milwaukee St. Jefferson, WI 53549

RE: Project: 10-731 JEFFERY PROPERTY

Pace Project No.: 4044452

### Dear Paula Richardson:

Enclosed are the analytical results for sample(s) received by the laboratory on April 13, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alee Her

alee.her@pacelabs.com Project Manager

alle of

Enclosures





### Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

### **CERTIFICATIONS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4044452

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888 New York Certification #: 11888

New York Certification #: 11888 New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

**REPORT OF LABORATORY ANALYSIS** 

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







# **SAMPLE SUMMARY**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4044452

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4044452001	SB-106	Solid	04/11/11 00:00	04/13/11 08:45
4044452002	MEOH BLANK	Solid	04/11/11 00:00	04/13/11 08:45







# SAMPLE ANALYTE COUNT

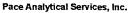
Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4044452

				Analytes				
Lab ID	Sample ID	Method	Analysts	Reported	Laboratory			
4044452001	SB-106	WI MOD DRO	КНВ	1	PASI-G			
		WI MOD GRO	PMS	1	PASI-G			
		ASTM D2974-87	AME	1	PASI-G			
4044452002	MEOH BLANK	WI MOD GRO	PMS	1	PASI-G			







# **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: Sample: SB-106

4044452

Lab ID: 4044452001

Collected: 04/11/11 00:00 Received: 04/13/11 08:45

Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical	Method: WI	MOD DRO Pro	eparation M	lethod	: WI MOD DRO			
Diesel Range Organics	<0.72 m	ng/kg	1.4	0.72	1	04/15/11 11:15	04/19/11 09:51		G2
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	<3.1 m	ng/kg	3.1	3.1	1	04/14/11 12:00	04/14/11 15:04		
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	18.8 %	6	0.10	0.10	1		04/15/11 07:50		

Date: 04/20/2011 03:08 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 5 of 11

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







# **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4044452

Sample: MEOH BLANK

Lab ID: 4044452002

Collected: 04/11/11 00:00

Received: 04/13/11 08:45

Prepared

Matrix: Solid

Results reported on a "wet-weight" basis

**Parameters** 

Results

Units

LOQ

LOD

DF

Analyzed

CAS No.

Qual

**WIGRO GCV** 

Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.

Gasoline Range Organics

<2.5 mg/kg

2.5

2.5

04/14/11 12:00 04/14/11 22:47

Date: 04/20/2011 03:08 PM

**REPORT OF LABORATORY ANALYSIS** 

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







# **QUALITY CONTROL DATA**

Project:

QC Batch:

10-731 JEFFERY PROPERTY

Pace Project No.:

QC Batch Method:

4044452

OEXT/10854

WI MOD DRO 4044452001 Analysis Method:

WI MOD DRO

Analysis Description:

WIDRO GCS

Associated Lab Samples:

METHOD BLANK: 436862

Parameter

Parameter

Matrix: Solid

Associated Lab Samples:

4044452001

Blank Result

Reporting Limit

436864

Analyzed

Qualifiers

Diesel Range Organics

mg/kg

Units

Units

< 0.99

2.0 04/19/11 08:26

436863 LABORATORY CONTROL SAMPLE & LCSD: Spike

LCS LCSD Result

LCS LCSD

% Rec Limits

RPD

Max RPD Qualifiers

**Diesel Range Organics** 

mg/kg

Conc. 40

35.7

Result 37,2

% Rec % Rec 89 93

70-120

20

Date: 04/20/2011 03:08 PM

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





Pace Analytical www.pacelabs.com

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

### **QUALITY CONTROL DATA**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

.: 4044452

QC Batch:

\_\_\_\_

GCV/6501

TPH GRO/PVOC WI ext.

Analysis Method:

WI MOD GRO

Analysis Description:

WIGRO Solid GCV

Associated Lab Samples:

QC Batch Method:

ples: 4044452001, 4044452002

METHOD BLANK: 436089

Matrix: Solid

Associated Lab Samples:

4044452001, 4044452002

Blank Result

Reporting Limit

Qualifiers

Gasoline Range Organics

**Parameter** 

mg/kg

Units

<2.5

2.5 04/14/11 10:00

Analyzed

LABORATORY CONTROL SAME	PLE & LCSD: 436090		43	36091					·	
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1 diameter					70 1100	70 1100	- Lilling			- Gadinicis
Gasoline Range Organics	mg/kg	10	9.3	10.6	93	106	80-120	13	20	

Date: 04/20/2011 03:08 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 8 of 11

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





# Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

# **QUALITY CONTROL DATA**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4044452

QC Batch:

\_\_\_\_\_

PMST/5365

Analysis Method:

ASTM D2974-87

QC Batch Method: ASTM D2974-87

Parameter

Analysis Description:

Dry Weight/Percent Moisture

Associated Lab Samples: 4044452001

\_\_\_\_

SAMPLE DUPLICATE: 436700

4044400002 Result

Dup Result

RPD

Max RPD

Qualifiers

Percent Moisture

%

Units

5.9

6.0

2

10

----

Date: 04/20/2011 03:08 PM

**REPORT OF LABORATORY ANALYSIS** 

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







### **QUALIFIERS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4044452

### **DEFINITIONS**

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

### **LABORATORIES**

PASI-G

Pace Analytical Services - Green Bay

### **ANALYTE QUALIFIERS**

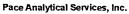
G2 The sample weight in the container did not meet method specifications.

Date: 04/20/2011 03:08 PM

REPORT OF LABORATORY ANALYSIS

Page 10 of 11





Pace Analytical www.pacelabs.com

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

4044452001

10-731 JEFFERY PROPERTY

SB-106

Pace Project No.: 4044452

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4044452001	SB-106	WI MOD DRO	OEXT/10854	WI MOD DRO	GCSV/5716
4044452001 4044452002	SB-106 MEOH BLANK	TPH GRO/PVOC WI ext. TPH GRO/PVOC WI ext.	GCV/6501 GCV/6501	WI MOD GRO WI MOD GRO	GCV/6506 GCV/6506

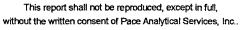
PMST/5365

ASTM D2974-87

Date: 04/20/2011 03:08 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 11 of 11





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



April 19, 2011

Paula Richardson Saga Environmental and Engineering, Inc. 146 E. Milwaukee St. Jefferson, WI 53549

RE: Project: 10-731 JEFFERY PROPERTY

Pace Project No.: 4044450

### Dear Paula Richardson:

Enclosed are the analytical results for sample(s) received by the laboratory on April 13, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alee Her

alee.her@pacelabs.com Project Manager

alle In

Enclosures

nelac



### Pace Analytical Services, Inc.

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

# **CERTIFICATIONS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4044450

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

New York Certification #: 11888 New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444







### **SAMPLE SUMMARY**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4044450

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4044450001	SUMP	Water	04/11/11 00:00	04/13/11 08:45
4044450002	TRIP BLANK	Water	04/11/11 00:00	04/13/11 08:45







# **SAMPLE ANALYTE COUNT**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4044450

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4044450001	SUMP	WI MOD GRO	SES	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4044450002	TRIP BLANK	WI MOD GRO	SES	9	PASI-G







# **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4044450

Sample: SUMP	Lab ID: 4044450	001 Collected	d: 04/11/11	00:00	Received: 04	4/13/11 08:45 M	atrix: Water	
Parameters	Results Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method:	MI MOD GRO						
Benzene	<0.39 ug/L	1.0	0.39	1		04/15/11 08:27	71-43-2	
Ethylbenzene	<0.41 ug/L	1.0	0.41	1		04/15/11 08:27	100-41-4	
Methyl-tert-butyl ether	<0.38 ug/L	1.0	0.38	1		04/15/11 08:27	1634-04-4	
Naphthalene	<0.40 ug/L	1.0	0.40	1		04/15/11 08:27	91-20-3	
Toluene	<0.42 ug/L	1.0	0.42	1		04/15/11 08:27	108-88-3	
1,2,4-Trimethylbenzene	<0.43 ug/L	1.0	0.43	1		04/15/11 08:27	95-63-6	
1,3,5-Trimethylbenzene	<0.40 ug/L	1.0	0.40	1		04/15/11 08:27	108-67-8	
Xylene (Total)	<1.3 ug/L	3.0	1.3	1		04/15/11 08:27	1330-20-7	
a,a,a-Trifluorotoluene (S)	102 %	80-120		1		04/15/11 08:27	98-08-8	
6010 MET ICP, Dissolved	Analytical Method:	EPA 6010						
Lead, Dissolved	<1.7 ug/L	7.5	1.7	1		04/14/11 13:50	7439-92-1	

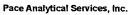
Date: 04/19/2011 10:22 AM

REPORT OF LABORATORY ANALYSIS

Page 5 of 10

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







### **ANALYTICAL RESULTS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

.: 4044450

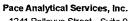
Sample: TRIP BLANK	Lab ID:	4044450002	Collecte	d: 04/11/11	00:00	Received: 04	4/13/11 08:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Analytical Method: WI MOD GRO							
Benzene	<0.39 u	ıg/L	1.0	0.39	1		04/14/11 16:16	71-43-2	
Ethylbenzene	<0.41 €	ıg/L	1.0	0.41	1		04/14/11 16:16	100-41-4	
Methyl-tert-butyl ether	<0.38 t	ıg/L	1.0	0.38	1		04/14/11 16:16	1634-04-4	
Naphthalene	<0.40 t	ıg/L	1.0	0.40	1		04/14/11 16:16	91-20-3	
Toluene	<0.42 ι	ıg/L	1.0	0.42	1		04/14/11 16:16	108-88-3	
1,2,4-Trimethylbenzene	<0.43 u	ıg/L	1.0	0.43	1		04/14/11 16:16	95-63-6	
1,3,5-Trimethylbenzene	<0.40 t	ıg/L	1.0	0.40	1		04/14/11 16:16	108-67-8	
Xylene (Total)	<b>&lt;1.3</b> ι	ıg/L	3.0	1.3	1		04/14/11 16:16	1330-20-7	
a,a,a-Trifluorotoluene (S)	102 %	Vo	80-120		1		04/14/11 16:16	98-08-8	

Date: 04/19/2011 10:22 AM

REPORT OF LABORATORY ANALYSIS

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







### **QUALITY CONTROL DATA**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4044450

QC Batch:

GCV/6500

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples: 4044450001, 4044450002

METHOD BLANK: 436075

Matrix: Water

Associated Lab Samples: 4044450001, 4044450002

Parameter	Units	Blank Reporting Result Limit		Analyzed	Qualifiers	
· <del></del>		- <del> </del>		<del></del>		
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	04/14/11 10:31		
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	04/14/11 10:31		
Benzene	ug/L	<0.39	1.0	04/14/11 10:31		
Ethylbenzene	ug/L	<0.41	1.0	04/14/11 10:31		
Methyl-tert-butyl ether	ug/L	<0.38	1.0	04/14/11 10:31		
Naphthalene	ug/L	<0.40	1.0	04/14/11 10:31		
Toluene	ug/L	<0.42	1.0	04/14/11 10:31		
Xylene (Total)	ug/L	<1.3	3.0	04/14/11 10:31		
a,a,a-Trifluorotoluene (S)	%	101	80-120	04/14/11 10:31		

LABORATORY CONTROL SAM	PLE & LCSD: 436076		43	36077						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.3	20.1	102	101	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	20.3	20.1	101	101	80-120	.6	20	
Benzene	ug/L	20	20.6	20.5	103	102	80-120	.9	20	
Ethylbenzene	ug/L	20	20.3	20.2	102	101	80-120	.5	20	
Methyl-tert-butyl ether	ug/L	20	19.5	19.4	98	97	80-120	.7	20	
Naphthalene	ug/L	20	18.2	18.3	91	91	80-120	.2	20	
Toluene	ug/L	20	20.4	20,4	102	102	80-120	.05	20	
Xylene (Total)	ug/L	60	60.1	59.6	100	99	80-120	.8	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

MATRIX SPIKE & MATRIX SP	PIKE DUPLICAT	E: 43639	7		436398							
Parameter	40 Units	044509008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec	RPD	Max RPD	Qual
												Quai
1,2,4-Trimethylbenzene	ug/L	<4.3	200	200	200	206	100	103	31-178	3	20	
1,3,5-Trimethylbenzene	ug/L	8.9J	200	200	215	221	103	106	66-145	3	20	
Benzene	ug/L	1820	200	200	1960	2150	69	164	23-177	9	20	
Ethylbenzene	ug/⊾	41.8	200	200	247	256	103	107	63-144	3	20	
Methyl-tert-butyl ether	ug/L	<3.8	200	200	195	194	98	97	80-120	.6	20	
Naphthalene	ug/L	59.6	200	200	236	245	88	93	63-140	4	20	
Toluene	ug/L	35.2	200	200	237	245	101	105	53-164	3	20	
Xylene (Total)	ug/L	94.0	600	600	699	722	101	105	41-166	3	20	
a,a,a-Trifluorotoluene (S)	%						94	94	80-120			

Date: 04/19/2011 10:22 AM

**REPORT OF LABORATORY ANALYSIS** 

Page 7 of 10

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







### **QUALITY CONTROL DATA**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.:

4044450

QC Batch:

ICP/4458

Analysis Method:

EPA 6010

QC Batch Method:

EPA 6010

Analysis Description:

ICP Metals, Trace, Dissolved

Associated Lab Samples:

METHOD BLANK: 436305

Matrix: Water

Associated Lab Samples:

4044450001

4044450001

Blank

Result

Reporting Limit

461

436308

Analyzed

Qualifiers

Lead, Dissolved

ug/L

<1.7

7.5 04/14/11 16:20

LABORATORY CONTROL SAMPLE: 436306

Parameter

Parameter

Parameter

Units

4044465001

Result

2.4J

Units

Spike Conc.

LCS Result

Limits

% Rec

92

Qualifiers

Lead, Dissolved

Lead, Dissolved

ug/L

Units

ug/L

500

Conc.

500

500

% Rec

LCS

MSD

Result

459

92 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

436307

MS

MSD Spike

Spike Conc.

MS Result

463

MS % Rec

MSD % Rec

% Rec Limits

91

75-125

Max RPD RPD

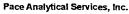
Qual 8. 20

Date: 04/19/2011 10:22 AM

**REPORT OF LABORATORY ANALYSIS** 

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







### **QUALIFIERS**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4044450

### **DEFINITIONS**

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

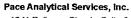
Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### **LABORATORIES**

PASI-G Pace Analytical Services - Green Bay

Date: 04/19/2011 10:22 AM







# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project:

10-731 JEFFERY PROPERTY

Pace Project No.: 4044450

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4044450001	SUMP	WI MOD GRO	GCV/6500		
4044450002	TRIP BLANK	WI MOD GRO	GCV/6500		
4044450001	SUMP	EPA 6010	ICP/4458		

Date: 04/19/2011 10:22 AM

**REPORT OF LABORATORY ANALYSIS** 

Page 10 of 10

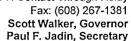
This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



BUREAU OF PECFA

P.O. Box 8044 Madison, Wisconsin 53708-8044

> TTY: Contact Through Relay Fax: (608) 267-1381





May 24, 2011

Thomas Jeffery W1003 County Rd CI Palmyra. Wi 53156

RE:

**Final Closure** 

Commerce # 53156-9688-03-A DNR BRRTS # 03-28-228585 Jeffery Property, W1003 Cty Rd CI, Palmyra

Dear Mr. Jeffery:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, Saga Environmental & Engineering, for the site referenced above. Commerce has determined that this site does not pose a significant threat to human health or the environment. This case is now listed as "closed" on the Commerce database. No further investigation or remedial action is necessary.

During the final groundwater sampling event conducted on November 15, 2010, the preventive action limits (PAL) for Benzene and Lead were attained or exceeded at temporary monitoring wells SB103 and SB104, including Benzene at 0.50 micrograms per liter and Lead at 2.0 micrograms per liter, respectively. Commerce is issuing a PAL exemption, per section NR 140.28(2), Wisconsin Administrative Code, for Benzene and Lead at the referenced property.

It is in your best interest to keep all documentation related to the environmental activities at your site. If residual contamination is encountered in the future, it must be managed in accordance with all applicable statutes and rules. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required.

Timely filing of your final PECFA claim (if applicable) is encouraged. If your PECFA claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

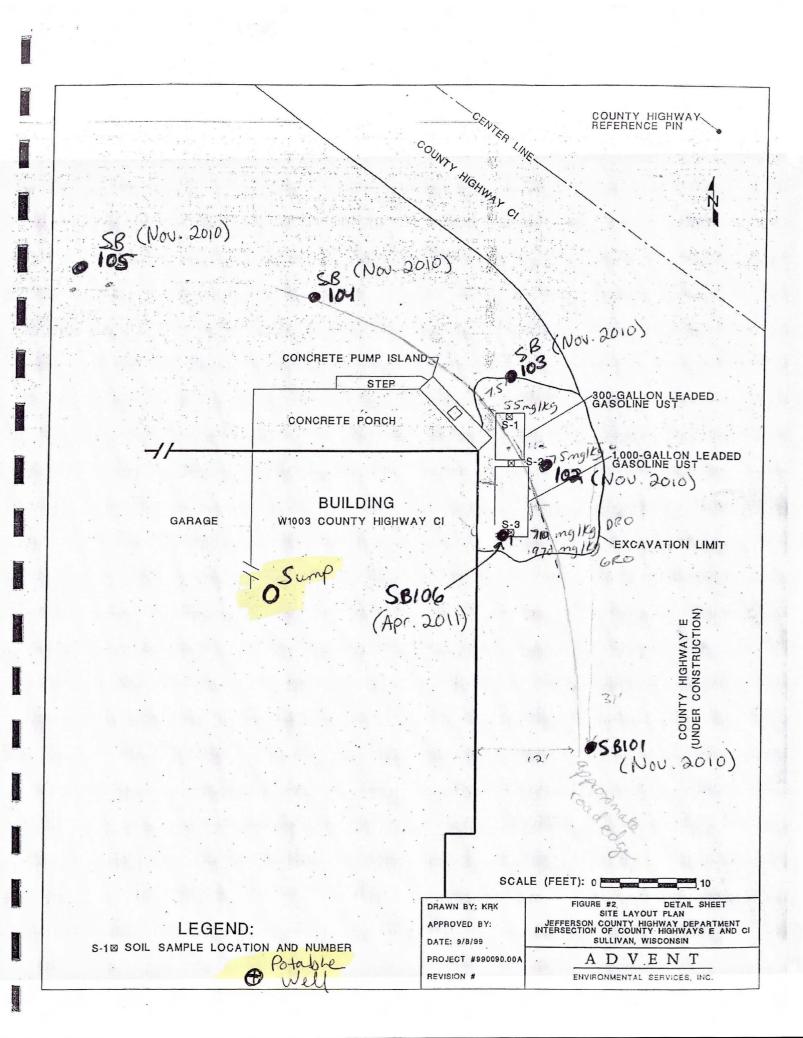
Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (608) 261-5401.

Sincerel

Shawn A. Wenzel Senior Hydrogeologist

Site Review Section

cc: Paula Richardson, Saga Environmental & Engineering, Inc.



# TABLE 1 GROUNDWATER ANALYTICAL SUMMARY JEFFERY PROPERTY PALMYRA, WI

Concentrations in µg/L

		Volatile Organic Compounds (VOCs; μg/L)								
Sample ID	Date	Benzene	Ethylbenzene	Toluene	Xylenes	Methyl tert-butyl ether	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	Lead, Dissolved (µg/L)
			Wisconsin A	dministrative	Code NR 140	Groundwater	Standards			
	40 PAL	0.5	140	160	400	12	9	6	10	1.5
NR <sup>*</sup>	140 ES	5	700	800	2,000	60	480		100	15
					Monitoring We					
SB101	11/15/2010	0.42	<0.41	0.85	<1.3	<0.38	<0.43	<0.40	<0.40	-
SB102	11/15/2010	<0.39	<0.41	0.62	<1.3	<0.38	<0.43	<0.40	<0.40	<1.7
SB103	11/15/2010	<u>0.50</u>	0.45 J	1.4	<1.3	<0.38	<0.43	<0.40	<0.40	<1.7
SB104	11/15/2010	<0.78	17.3	<0.76	21.4	<0.76	14.1	7.1	4.9	<u>2.0</u>
SB105	11/15/2010	0.45	2.8	1.0	<1.3	<0.38	<0.43	<0.40	<0.40	<1.7
Potable Well Sample										
PW-1	12/9/2010	<0.39	<0.41	<0.42	<1.3	<0.38	<0.43	<0.40	<0.40	<1.4
				Sum	np Water Sam	ple				
Sump	4/11/2011	<0.39	<0.41	<0.42	<1.3	<0.38	<0.43	<0.40	<0.40	<1.7

### Notes:

<u>0.50</u>: Concentration meets or exceeds NR 140 PAL.

μg/L: Micrograms per liter.
PAL: Preventive Action Limit.
ES: Enforcement Standard.

<0.20 : Analyte not detected above limit of detection shown.



Hello Ms. GREVE.

I SINCERCY APOLOGIZE FOR NOT RESPONDING SOONER ON ADDRESSING THIS PRIBLEM.

I WOULD LIKE VERY MUCH TO HIRE SOMEONE TO TEST THE SOIL AND PLAN TO DO SO. DUE TO MONEY ISSUES, I WAS HOPING THAT YOU COULD GIVE ME A 6 MONTH EXTENSION ON THE TESTING DATE.

IF NOT, I UNDERSMAND - SORPY FOR THE DELAY.

THANK YOU.



Jim Doyle, Governor Matthew J. Frank, Secretary Lloyd L. Eagan, Regional Director South Central Region Headquarters 3911 Fish Hatchery Road Fitchburg, Wisconsin 53711-5397 Telephone 608-275-3266 FAX 608-275-3338 TTY Access via relay - 711

December 29, 2009

Mr. Thomas Jeffery W1003 County Highway CI Palmyra, WI 53156

Subject: Notice of Non-compliance - ch. 292, Wis. Statutes; Jeffery Property, W1003 County Highway CI, Palmyra; Jefferson County; BRRTS# 03-28-228585

Dear Mr. Jeffery:

On May 4, 2000, the Department of Natural Resources sent you a letter informing you that contamination had been discovered during the removal of two underground storage tanks from your property. That letter explained your responsibilities under the hazardous substances spill law, s. 292.11 (3) Wisconsin Statutes to "take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state." Having not received verification that the requirements of its 2000 letter had been met, the Department sent letters on July 12, 2007 and July 15, 2009, reminding you of your continuing responsibility to address the contamination on your property.

To date, the Department has not received correspondence indicating that you have taken any action regarding this matter. The Department interprets your failure hire an environmental consultant as a failure to complete investigation/remediation activities at the Site. Therefore, the Department alleges that you are in violation of s. 292.11(3), Wis. Statues.

The requirement to hire an environmental consultant to complete a site investigation and, if necessary, remediation of the site remains in effect and must be complied with within 30 days of the date of this letter. Failure to respond in writing within 30 days of the date of this letter will be viewed as a negative response and will result in further enforcement action. Be advised that the Department has the ability to record an affidavit on the property deed for the site, pursuant to s. NR 728.11, Wis. Adm. Code. The intent of the affidavit is to give notice of contamination on the property, and, in particular, to alert potential purchasers of the property of the contamination.

If you have questions about this letter or how you need to proceed, please contact me at the address listed above, by phone at (608)275-3220, or at the email address listed below.

Sincerely,

Rachel Greve

Hydrogeologist - South Central Region Bureau for Remediation and Redevelopment

rachel.greve@wisconsin.gov

Kachel Cyreve





Jim Doyle, Governor Matthew J. Frank, Secretary Lloyd L. Eagan, Regional Director South Central Region Headquarters 3911 Fish Hatchery Road Fitchburg, Wisconsin 53711-5397 Telephone 608-275-3266 FAX 608-275-3338 TTY Access via relay - 711

January 20, 2010

Mr. Tom Jeffery W1003 County Highway CI Palmyra, WI 53156

Subject:

Site Cleanup Next Steps

Jeffery Property, W1003 County Highway CI, Palmyra, Jefferson County

BRRTS #03-28-228585

Dear Mr. Jeffery:

Thank you for your reply to my December 29, 2009 letter. I appreciate the financial difficulties that can result from a site investigation and cleanup effort.

Many of the costs for the needed work may be reimbursed by Wisconsin's Petroleum Environmental Cleanup Fund Award (PECFA) program. For information on initial site eligibility, please contact Renee Dickey of the Department of Commerce at 608-264-8765. Depending on your financial situation, you may qualify for a reduced PECFA deductible, thereby relieving you of more of the long-term costs for this work. Please contact Dorothy White of the Department of Commerce at 608-266-3713 if you wish to discuss the possibility of a reduced deductible.

Your responsibilities under Section 292.11 of the Wisconsin Statutes (also known as the "spills law") require you to determine the extent of contamination and, if necessary, clean up and properly dispose of contaminants. To get the case closed, you will need to hire a qualified environmental consultant to perform an environmental investigation in compliance with Wisconsin Administrative Code NR 700 series. I've attached a list of environmental consultants that work in the PECFA program to aid you in hiring a consultant.

By <u>April 30, 2010</u>, you must provide the Department with an update on the status of your efforts to begin a cleanup at this site. When you have contracted with an environmental consultant to complete this work, you will need to inform the Department, in writing, of their name and address. That correspondence must also include the date by which your consultant will begin the site investigation field work and a schedule for completing that investigation. Within forty-five (45) days of completing the site investigation field work, your consultant will need to submit a report on the results of the investigation. The report should include recommendations for additional work or case closure, as appropriate.



If you have questions about how you need to proceed, feel free to call me at 608-275-3220.

Sincerely,

Rachel Greve

Rachel Greve

Hydrogeologist - South Central Region Bureau for Remediation and Redevelopment

rachel.greve@wisconsin.gov

cc:

Renee Dickey, DCOMM (via email)

file

**Enclosures** 

If you have questions about how you need to proceed, feel free to call me at 608-275-3220.

Sincerely,

Kachel Greve Rachel Greve

Hydrogeologist - South Central Region

Bureau for Remediation and Redevelopment

rachel.greve@wisconsin.gov

RECEIVED

APR 27 2010

DNR R&R SOUTH CENTRAL REGION

cc:

Renee Dickey, DCOMM (via email)

file

Enclosures

Ms. GREVE,

ON APRIL 20th I MET WITH PAULA RICHARDSON FROM RSV ENGINEERING TO DISCUSS THE TESTING OF MY PROPERTY.

MS. RICHARDSON IS PUTITATE TO GETHER A CONTRACT
THAT I WILL DISCUSS (WITH HER) IN THE NEXT WEEK
OF SO. I ANTICIPATE I WILL CONTRACT RSV TO
COMDUCT ALL INVESTIGATION AND CLEANUP IF NECESSAMY.

WILL NOTIFY YM.

Tom Juffy



Jim Doyle, Governor Matthew J. Frank, Secretary Lloyd L. Eagan, Regional Director South Central Region Headquarters 3911 Fish Hatchery Road Fitchburg, Wisconsin 53711-5397 Telephone 608-275-3266 FAX 608-275-3338 TTY Access via relay - 711

January 20, 2010

Mr. Tom Jeffery W1003 County Highway CI Palmyra, WI 53156



Subject:

Site Cleanup Next Steps

Jeffery Property, W1003 County Highway CI, Palmyra, Jefferson County

BRRTS #03-28-228585

Dear Mr. Jeffery:

Thank you for your reply to my December 29, 2009 letter. I appreciate the financial difficulties that can result from a site investigation and cleanup effort.

Many of the costs for the needed work may be reimbursed by Wisconsin's Petroleum Environmental Cleanup Fund Award (PECFA) program. For information on initial site eligibility, please contact Renee Dickey of the Department of Commerce at 608-264-8765. Depending on your financial situation, you may qualify for a reduced PECFA deductible, thereby relieving you of more of the long-term costs for this work. Please contact Dorothy White of the Department of Commerce at 608-266-3713 if you wish to discuss the possibility of a reduced deductible.

Your responsibilities under Section 292.11 of the Wisconsin Statutes (also known as the "spills law") require you to determine the extent of contamination and, if necessary, clean up and properly dispose of contaminants. To get the case closed, you will need to hire a qualified environmental consultant to perform an environmental investigation in compliance with Wisconsin Administrative Code NR 700 series. I've attached a list of environmental consultants that work in the PECFA program to aid you in hiring a consultant.

By <u>April 30, 2010</u>, you must provide the Department with an update on the status of your efforts to begin a cleanup at this site. When you have contracted with an environmental consultant to complete this work, you will need to inform the Department, in writing, of their name and address. That correspondence must also include the date by which your consultant will begin the site investigation field work and a schedule for completing that investigation. Within forty-five (45) days of completing the site investigation field work, your consultant will need to submit a report on the results of the investigation. The report should include recommendations for additional work or case closure, as appropriate.



Phone Log Rachel Greve

Date:

4/22/2010

Site Name:

Jeffery Property

03-28-228585

Contact Name:

Paula Richardson, RSV Engineering

Subject:

PECFA Eligibility

Tom Jeffery contacted RSV Engineering about conducting a site investigation at his property. They do not have a contract yet but will in the near future. The site is listed in BOTW as not PECFA eligible, but this is probably because the tanks were never registered. Paula wanted to know if they could register the tanks now. PECFA does allow after-the-fact tank registration. I mentioned the agent process and PECFA deductible deferment as possible ways to help finance the cleanup.

#### BRRTS Treeview Details

SELECTED RECORD

LOCATION: JEFFREY PROPERTY

ADDRESS: W1003 CNTY HWY CI

MUNICIPALITY: PALMYRA

COUNTY: JEFFERSON

REGION: SC

FID: 268568190

SITE GEO

PLSS: None 1/4 of None 1/4 of Section None, TNoneN, RNo

LAT/LONG: None° None' None° None' None"

RR ACTIVITIES [1]

03-28-228585 JEFFREY PROPERTY

TYPE: LUST

START: 08/27/1999

END: None

ADDL ADDRESS: None

COMMENT: None

FILE LOCATION: NW 1/4, SE 1/4, Section 34, Tn 6N, Range

DCOM NUMBER: None

CREATED 09/01/1999 11:00:43 BY BROWNBJ

UPDATED 02/15/2007 13:40:03 BY WEIHEW

ACTIONS [4]

08/27/1999 - 1 Notification:

10/25/1999 - 2 RP Letter Sent :

11/01/1999 - 33 Tank Closure/Site Assessment Report Rec

05/04/2000 - 2 RP Letter Sent/2 :

**ACTIVITY GEO** 

PLSS: NW 1/4 of SE 1/4 of Section 34, T06N, R16E

LAT/LONG: None° None' None° None' None"

CHANGE HISTORY [0]

NO CHANGES FOUND

ELIGIBILITY [0]

None

**EXCEEDENCES** [0]

NO EXCEEDENCES

FLAGS [0]

NO FLAGS

IMPACTS [1]

Soil Contamination

PHANTOM CONTAMINATION [0]

NO PHANTOM CONTAMINATION

PRIORITY [1]

09/01/1999 PRIORITY: Unknown

RISK [1]

12/01/1999 Unknown

SCORING [0]

NONE

Printed on: 02/15/2007 14:20

Site name and addiess changed 2-15-07

#### **BRRTS** Treeview Details

FINANCIAL TRANSACTIONS [0]

NO SL EXPENDITURES

SUBSTANCES [1]

PETROLEUM: GASOLINE

**COMMENT: None** 

OTHER DESC: Gasoline

RELEASED: None None

RECOVERED: None None

PHYSICAL CHAR: None

COLOR: None

ODOR: None

#### WHO [2]

Responsible Party

THOMAS JEFFERY

W1003 CTH CI

PALMYRA, WI 53156

**UNITED STATES** 

Project Manager

RANDALL MAASS

HYDROGEOLOGIST

3911 FISH HATCHERY RD

**FITCHBURG** 

SHWIMS ACTIVITIES [0]

None



Jim Doyle, Governor Scott Hassett, Secretary Lloyd L. Eagan, Regional Director South Central Region Headquarters 3911 Fish Hatchery Road Fitchburg, Wisconsin 53711-5397 Telephone 608-275-3266 FAX 608-275-3338 TTY Access via relay - 711

File Ref: 03-28-228585

July 11, 2007

Thomas Jeffery W1003 CTH CI Palmyra, WI 53156

Subject: Contamination at the Jeffrey Property, southwest corner of Highway CI & E, Sullivan.

Dear Mr. Jeffery:

On May 4, 2000, the Department of Natural Resources sent you a letter informing you that contamination had been discovered during the removal of two underground storage tanks from your property. That letter explained your responsibilities under the hazardous substances spill law, s. 292.11 (3) Wisconsin Statutes to "take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state."

The Department has not received a reply from you about your plans to address the contamination on your property. Unfortunately, due to an oversight, the Department did not follow up with you in a timely manner. It has recently come to our attention that no action has been taken to clean up the contamination identified on your property in 1999.

We regret the time lapse that has occurred between our first letter to you and this follow-up. When contamination is discovered, it is important to begin investigation and cleanup as soon as possible in order to prevent contamination from spreading. However, despite the delay, the investigation and cleanup of contamination on your property remains your responsibility. The first step toward complying with spill law requirements is to hire an environmental consultant to investigate and remediate the contamination on your property. Please contact the Department within 60 days regarding your plans for hiring a consultant.

It appears from our records that you did not receive the Site Assessment Report regarding the contamination at this site. Because Advent, the company that conducted the initial site investigation, is no longer in business, I am enclosing the pertinent portions of that report for your information.

If you have any questions about this letter, please feel free to contact me at (608) 275-3220.

Sincerely,

Rachel Greve

Rachel Greve

Hydrogeologist - South Central Region

Bureau for Remediation and Redevelopment

rachel.greve@wisconsin.gov

Enclosure: Site Assessment Report for Underground Storage Tank Closure





Jim Doyle, Governor Matthew J. Frank, Secretary Lloyd L. Eagan, Regional Director South Central Region Headquarters 3911 Fish Hatchery Road Fitchburg, Wisconsin 53711-5397 Telephone 608-275-3266 FAX 608-275-3338 TTY Access via relay - 711

July 15, 2009

Mr. Thomas Jeffery W1003 County Highway CI Palmyra, WI 53156

Subject: Status of Required Actions to Address Contamination at the Jeffery Property, W1003 County Highway CI, Palmyra; Jefferson County; BRRTS# 03-28-228585

Dear Mr. Jeffery:

On May 4, 2000, the Department of Natural Resources sent you a letter informing you that contamination had been discovered during the removal of two underground storage tanks from your property. That letter explained your responsibilities under the hazardous substances spill law, s. 292.11 (3) Wisconsin Statutes to "take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state." Having not received verification that the requirements of its 2000 letter had been met, the Department sent a letter on July 12, 2007 reminding you of your continuing responsibility to address the contamination on your property. The Department has received no response to that letter.

The first step toward complying with spill law requirements is to hire an environmental consultant to investigate and remediate the contamination on your property. Please submit verification that you have hired an environmental consultant and also submit information on any actions that have been taken to address the contamination at the site. This information must be submitted to me by **September 15, 2009**. Not responding to this letter will be viewed as a negative response and may result in additional enforcement actions.

If you have any questions or comments, please contact me at (608) 275-3220 or at the address noted above. If I am unavailable, please contact Randy Maass at (608) 275-3224.

Sincerely,

Rachel Greve

Hydrogeologist - South Central Region Bureau for Remediation and Redevelopment

rachel.greve@wisconsin.gov





Jim Doyle, Governor Matthew J. Frank, Secretary Lloyd L. Eagan, Regional Director South Central Region Headquarters 3911 Fish Hatchery Road Fitchburg, Wisconsin 53711-5397 Telephone 608-275-3266 FAX 608-275-3338 TTY Access via relay - 711

December 29, 2009

Mr. Thomas Jeffery W1003 County Highway CI Palmyra, WI 53156

Subject: **Notice of Non-compliance** - ch. 292, Wis. Statutes; Jeffery Property, W1003 County Highway CI, Palmyra; Jefferson County; BRRTS# 03-28-228585

Dear Mr. Jeffery:

On May 4, 2000, the Department of Natural Resources sent you a letter informing you that contamination had been discovered during the removal of two underground storage tanks from your property. That letter explained your responsibilities under the hazardous substances spill law, s. 292.11 (3) Wisconsin Statutes to "take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state." Having not received verification that the requirements of its 2000 letter had been met, the Department sent letters on July 12, 2007 and July 15, 2009, reminding you of your continuing responsibility to address the contamination on your property.

To date, the Department has not received correspondence indicating that you have taken any action regarding this matter. The Department interprets your failure hire an environmental consultant as a failure to complete investigation/remediation activities at the Site. Therefore, the Department alleges that you are in violation of s. 292.11(3), Wis. Statues.

The requirement to hire an environmental consultant to complete a site investigation and, if necessary, remediation of the site remains in effect and must be complied with within 30 days of the date of this letter. Failure to respond in writing within 30 days of the date of this letter will be viewed as a negative response and will result in further enforcement action. Be advised that the Department has the ability to record an affidavit on the property deed for the site, pursuant to s. NR 728.11, Wis. Adm. Code. The intent of the affidavit is to give notice of contamination on the property, and, in particular, to alert potential purchasers of the property of the contamination.

If you have questions about this letter or how you need to proceed, please contact me at the address listed above, by phone at (608)275-3220, or at the email address listed below.

Sincerely.

Rachel Greve

Hydrogeologist - South Central Region Bureau for Remediation and Redevelopment

rachel.greve@wisconsin.gov

Kachel Greve





Tommy G. Thompson, Governor George E. Meyer, Secretary Ruthe E. Badger, Regional Director South Central Region Headquarters 3911 Fish Hatchery Road Fitchburg, Wisconsin 53711-5397 Telephone 608-275-3266 FAX 608-275-3338 TTY 608-275-3231

May 4, 2000

File Ref: 03-28-228585

Thomas and Dorothy Jeffery W1003 CTH CI Sullivan WI 53178

Subject: Jefferson County ROW, southwest corner of Highway CI & E, Sullivan

Dear Mr. & Mrs. Jeffery:

In August 1999, we notified the Jefferson County Highway Department that an investigation was needed at the above property location. Two underground storage tanks had been removed and contamination was encountered. We have since been contacted by the county regarding property ownership. After reviewing the property records, the county has advised us that the tanks in question were on your property, and thus, responsibility for investigation the contamination is yours.

The spill law authorizes the Department of Natural Resources to enforce cleanup of contaminated sites, under s. 292.11 of the Wisconsin Statutes. As the owner of the property where a hazardous substance discharge has occurred, you are required to determine the horizontal and vertical extent of contamination and clean-up/properly dispose of the contaminants.

Your legal responsibilities are defined both in statute and in administrative rules. The hazardous substance spill law, s. 292.11 (3) Wisconsin Statutes, states:

RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Code NR 700 through NR 728 establishes requirements for interim actions, public information, site investigation, design and operation of remedial action systems, and case closure. Wisconsin Administrative Code NR 140 establishes groundwater standards.

It is important that an investigation begins at your site as soon as possible. The longer contamination is left in the environment, the farther it can spread and the more difficult and costly it becomes to cleanup. Since this cleanup must comply with Wisconsin laws and rules, professional engineering and hydrogeologic experience is necessary. Therefore, you should hire a professional environmental consultant who can assure you that Department policies and guidelines are being followed.

Your consultant will help you in providing the Department with the following:

 Submit written verification (such as a letter from the consultant) that you have hired an environmental consultant. Please submit this information within 30



#### days of the date of this letter.

- Submit an investigation workplan explaining what work will be performed to identify the extent of contamination. This workplan should include a time schedule. Also, please provide documentation of any previous work performed related to this release.
- Submit the investigation report defining the degree and extent of any soil and/or groundwater contamination.
- Provide a remedial action plan outlining the remedy selected.
- Provide a remedial action report with data supporting your consultant's conclusions and recommendations for future work or site closure.

In addition, you will be required to keep the Department informed on site progress by submitting 60 day updates. You will be notified when to provide the status reports at the time you submit your investigation workplan.

There are times when staffing levels do not allow us to keep current with workload demands. However, to maintain your compliance with the spill law and chs. NR 700 through NR 728, investigation and cleanup actions should not be unnecessarily delayed waiting for DNR responses. In the event that you experience delays, please refer to NR 716.09(3) regarding Department review of sites.

Your correspondence and reports regarding this site should be sent to Marilyn Jahnke, Department of Natural Resources, 3911 Fish Hatchery Road, Fitchburg WI 53711. Unless otherwise requested, please send only one copy of all plans and reports. Correspondence should be identified with the site name and address which is listed in the subject of this letter.

I have enclosed a list of environmental consultants and some important tips on selecting one. If you are eligible for Wisconsins' PECFA program (see end of letter), you will need to compare at least three consultant's proposals before making your selection. Also enclosed are materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method. Please read this information carefully.

Reimbursement from the Petroleum Environmental Cleanup Fund (PECFA) is available for the costs of cleaning up the contamination from eligible petroleum storage tanks. The fund is administered by the Department of Commerce. Please contact DCOM at (608) 266-2424 for more information on eligibility and regulations for this program.

If you have any questions about this letter or your responsibilities, please call me at (608) 275-3212.

Sincerely,

Marilyn Jahnke, Program Assistant Remediation & Redevelopment

Telephone: (608) 275-3212 jahnkm@dnr.state.wi.us

#### Bureau for Remediation and Redevelopment Activity Detail Report - Case Tracking

fe	E
----	---

	02.20.20.505	VDI I	. Con Pro		t to make the make th	0
Activity Number:		VPLE		لسنا	ivity Type: LUST FID: 268568190	
_	South Central R	_	County: Jefferson	n	EPA ID:	
		OUNTY RIGHT OF		,		E ID ( OPEN
		OF CTY HWY CI &	E		Start Date: 08/27/1999	End Date: OPEN
Municipality:				Project	Manager:	
Legal Description:					Priority: Unknown	
	None Found				Score:	RECEIVED
	None Found		_	LUST Tr	ust Eligible:	FEB 1 6 2011
Transferred DCom:		Pecfa Eligible:				
Tracked by DCom:		Pecfa 80k: Pecfa 80k Failure:				ERS DIVISION
		recia sok ranure:				
Who:						
Contact Type: RP COI				Phone: (920) 674-7391	Ext:	
Name: RAND) Title:	KUHL			Fax: 9207231391 E-Mail:		
Company:				E-Mail.		
Address:						
JEFFER	RSON, WI 53549					
Contact Times CONST	II ጥልእነጥ			Phone: (414) 371-5026	Ext: 3028	
Contact Type: CONSU Name: KEN K				Fax:	Ext: 3026	
Title:				E-Mail:		
Company:						
Address: P.O. Bo		<del></del>				
MEQUI	ON, WI 53092027	,,				
Contact Type: RESPO	NSIBLE PARTY			Phone: (920) 674-7391	Ext:	
Name:				Fax: 9207231391		
Title:	and an initial			E-Mail:		
Company: JEFFEI Address:	RSON COUNTY					
	RSON, WI 53549					
Contact Type: CONSU	JLTANT BRANC	CH OFFICE		Phone: (414) 371-5026	Ext: 3028	
Name: Title:				Fax: E-Mail:		
	NT ENVIRONME	ENTAL SERVICES		L-Iviali.		
Address: P.O. B						
MEQU	ON, WI 5309202	77				
Impacts: Soil Contamination						
Substances: Leaded Gas						
ERP Substances:						
Treatment Flag: Disposal City:	Disposal Flag:	Landfill Flag	:			
Actions:						
1 Notification			08/27/99			

268568/90

Wisconsin Department of Natural Resources 13-28-22885

Notification of Petroleum Contamination from Underground / Aboveground Storage Tank Systems

	discovery of a release from (CIRCLE ONE): UST / AST system.
TO:	WDNR, Attn://Pat chung
	0 (3 0 (7 0 2
	FAX#: 265-8905
PLEA	ASE TYPE OF PRINT LEGIBLY:
1.	Name, company, mailing address and phone number of person reporting the discharge:
	Name, company, mailing address and phone number of person reporting the discharge:  Ken Kuchw  Advent Environmental Services  Services
	POBOX 277 NEQUON, WI 53092-0277 Ph# 371-5026 EXT#3028
2.	Site Information
-	
	Name of site at which discharge occurred (local name of site/business not responsible party name, unless a residence):  50 For Son County Right-07-60-1
	Intersection of County Highways CI and E
	Location (actual street address, not PO box; if no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60): Southwest Corner of
ount	4 Highway CI and E (Intersection)
	Municipality (city, village, township in which the site is located not mailing address):
	Town of Sullivan
	County:
	Jefferson
	Legal Description: $N\omega_{1/4}$ , $SE_{1/4}$ , Section $34$ , $Tn_{6N}$ , Range $16(E)W$
	· ·
3.	Responsible Party (RP) and/or RP Representative Information
	RP/Business Name: Jefferson County
	contact Person (if different): Mr. Randy Kuhl
	Mailling Address (with the ands).
	Mailing Address (with zip code): 631 N. Wartertown Road Jefferson, WZ 53549
	Jefferson, WZ 53549
	Telephone Number:
	920-674-739/ or 920-723-139/(mobil)
4.	Identity, physical state and quantity of the hazardous substance discharged (check all that apply):
	Unleaded gasolineFuel oil
	Leaded gasolineWaste oil Other

5. Impacts to the environment (enter "K" for known/confirmed or "P" for potential for all that apply):
Fire/explosion threat Contaminated private wells (# of wells) Contaminated public wells Groundwater contamination  Soil contamination Surface water impacts Floating product Other
6. Contamination was discovered as a result of:
Tank closure assessmentSite assessment(other)
On what date: 400057 12, 1888
On what date: # HUSUSTIA, 1988 #ANACYTICAL Results Recieved 8/26/99
Additional Commenter
Scripted Texen at approximately 7,5 feet below ground Surface. Groundwate
below ground surface. Order
encountared at approximately 8.0 feet billow 8 round water
below & round water.
See enclosed analytical Result.
FAX numbers to report leaking tank sites in DNR's five regions are as follows:
Northeast Region (920-492-5859) Underground Tanks: Attention - Janis DeBrock Aboveground Tanks: Attention - Roxanne Chronert Brown, Calumet, Door, Fond du Lac (except City of Waupun - see South Central Region), Green
Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano,
Waupaca, Waushara, Winnebago Counties Northern Region (715-365-8932); Attention - Janet Kazda:
Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk,
Price, Rusk, Sawyer, Taylor, Vilas, Washburn Counties
South Central Region (608-275-3338); Attention - Marilyn Jahnke: Columbia, Crawford, Dane, Dodge, Fond du Lac (City of Waupun only), Grant, Green, Iowa,
Jefferson, Lafayette, Richland, Rock, Sauk Counties Southeast Region (414-229-0810); Attention - Mike Farley: Pot chung 263-8/83
Southeast Region (414-229-0810); Attention - Mike Farley: 100 Chung 06 5 07 00

Adams, Buffalo, Chippewa, Clark, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood Counties

Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Walworth, Washington, Waukesha Counties

Rev. 9/97

West Central Region (715-839-6076); Attention - John Grump:



Email; info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Advent Environmental Services
P.O. Box 277
Vequon, WI 53092-0277

Attention: Ken Kuehn

Client Project ID: Sample Descript: Analysis for:

Jefferson County Highway Soil

Percent Solids, EPA 7.3.3.1.5

Sampled: Received: Aug 12, 1999 Aug 13, 1999

First Sample #: B908210-01

Analyzed: Aug 19, 1999 Reported: Aug 25, 1999

LABORATORY ANALYSIS FOR:

Percent Solids, EPA 7.3.3.1.5

Sample Number	Sample Description	Detection Limit %	Sample Result %
B908210-01	S-1 (Nonh)	0.10	80
B908210-02	S-2 (Middle)	0.10	83
B908210-03	S-3 (South)	0.10	82

**GREAT LAKES ANALYTICAL** 

Kevin V. Keeley Laboratory Director

8908210-01.ADV <1>

Certhications: AALA 461.01, Phonic EPA 100261; New York 05P-54001; New York 00H 11407; Propagytymmic DEP 58 500, 3d inclines BOM-02804, Tennessee DEC, Wisconsin DNR-089917160.



Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Advent Environmental Services P.O. Box 277 Mequon, WI 53092-0277

Attention: Ken Kuehn

Client Project 10. Matrix Descript: Analysis Method:

First Sample #:

Jefferson County Highway Soil

WONR DRO B908210-01

Sampled: Aug 12, 1999 Aug 13, 1999 Aug 17, 1999 Received: Extracted: Analyzed: Aug 24, 1999

Reported: Aug 25, 1999 The state of the s

### DIESEL RANGE ORGANICS

Sample Number	Sample Description	<b>Detection Limit</b> mg/kg, Dry Weight (ppm)	High B.P. Hydrocarbons mg/kg, Dry Weight (ppm)	Chromatogram Description
B908210-01	S-1 (North)	6.2	8.9	Diesel Range, Late Gas Range, Early Peaks, Non-Characteristic Diesel Pattern
B908210-02	S-2 ( Middle)	6.0	76	Diesel Range, Diesel Pattern, Early Peaks
B908210-03	5-3 (South)	61	970	Diesel Range, Early Peaks, Non-Characteristic Diesel Pattern

High Bolling Point Hydrocarbons is performed as described in Leaking Underground Storage Tank Analytical Guidance, July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL** 

Kevin W: Keeley **Laboratory Director** 

B908210-01.ADV <2>

Certifications: AALA-ABT 61, Rithols FPA 100221; New Jossey DEP-54001, New York DOH-11487; Pennsylvagia DEP-58-500. Certificases DOH-02801; Temporase DEC, Wisconsin DNP 988017160.



Email: info@glalabs.com (847) 808-7768 FAX (847) 808-7772

Advent Environmental Services P.O. Box 277

Mequon, WI 53092-0277 Attention: Ken Kuehn

Client Project ID. Matrix Descript:

First Sample #:

Jeffcrson County Highway Soll

Analysis Method: **WDNR GRO** B908210-01

Sampled: Received:

Aug 12, 1999 Aug 13, 1999

Analyzed: Aug 18, 1999 Aug 26, 1999 Reported: 

#### **GASOLINE RANGE ORGANICS**

Sample Number	Sample Description	Datection Limit mg/kg, Dry Weight (ppm)	Low/Medium B.P. Hydrocarbons mg/kg, Dry Weight (ppm)	Chromatogram Description
B908210-01	S-1 (North)	6.3	55	Gas Range, Several Large Peaks, Elevated Baseline
B908210-02	S-2 (Middle)	6.0	75	Gas Range, Several Large Peaks, Elevated Baseline
B908210-03	S-3 (South)	61	710	Gas Range, Several Large Peaks, Elevated Baseline

Low to Medium Bolling Point Hydrocarbons is performed as described in Leaking Undergound. Storage Tank Analytical Guidance July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL** 

Kavin W. Keeley Caboratory Director

B908210-01,ADV <3>

Committations. AALA-461 O1: Blingis FPA-1002C1; New Hetsey DEP-54001; New York DOH-114B/: Permsylvania DEP 68 5/0 - termisser DOH 0/304; Tennessee DEC; Windonsin DNR 9/9917160



Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Advent Environmental Services P.O. Box 277

ୁ Mequon, WI 53092-0277 Attention: Ken Kuehn

Client Project ID: Matrix Descript: Analysis Method:

First Sample #:

Jefferson County Highway Liquid

WONR GRO B908210-04

Sampled: Received: Aug 12, 1999 Aug 13, 1999

Analyzed: Aug 18, 1999 Aug 26, 1999 Reported: 

#### GASOLINE RANGE ORGANICS

Sample Numb <del>e</del> r	Sample Description	Detection Limit µg/L (ppb)	Low/Medium B.P. Hydrocarbons  µg/L (ppb)	Chromatogram Description
B908210-04	Methenol Blank	5,000	N.D.	

Low to Medium Boiling Point Hydrocarbons is performed as described in Leaking Undergound Storage Tank Analytical Guidance July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection.

**GREAT LAKES ANALYTICAL** 

Kevin W. Keeley aboratory Director

B908210-01.ADV <4>

Dertifications: AALA 461,01; Binoid FPA 10/9/61+ New Jersey DEP-64001, New York DOH 11487. Pennsylvania DEF 68-560. Tempisses DOH 92904: Tahingpien DEC: Wisconsis ONR-9909-7160

# CHAIN OF CUSTODY REPORT

1380 Busch Parkway Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772

20725 Watertown Road Brookfield, Wi 53501 (414) 798-1030 FAX (414) 798-1056

	CHON: Hoyent Env. Sevices	BIII To:	Adv	RA	7	Env			7.4	5 DAY	DAY	3 DAY 2	DAY 1 DAY < 24 HAS.
90/	Address: Po Box 277	   Addres:	s: 5	· - •	ڡ				DAT	RESULT	S NEEDEL	× 1	iomal
90	MEQUON, CUZ 53092-0277			S=	کسید	2			TEM	PERATURI	UPON A	ECEPT:	ontro!
14	Report to: Key   webs   Phone #: (500) 880 -1995	State & Program	n wit	-رس	1	Phone Fax #:	· (823)	830-699	8 AR	BILL MO.	C + 1	JPH	
0.0	Project 5 effers on County Hydrosyt				/6/	8		7//	7	77	11	SAMP	E /
Ž	Sampler Kew Kiehn	$\mathcal{J}_{+}$		? / <u>\$</u>			() 3°		//			CONTR	ior /
17:1	PO/Quote *: 950050.00  FIELD ID, LOCATION	A STATE OF THE STA		2/2/	Se S	Si	100 J	///	1	//		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	LABORATORY ID NUMBER
, 66	[ C- ] ( almost) [2/1], a		And						++	<del></del>	<del></del>		DO O O O
ž vo		<u> </u>	J. Comment	01		$\nabla \nabla$	X	<del></del>	- <del>                                     </del>				10,019100
8/2	1 5-2 (mode) 11 1:day	4	i ir	3	41	XX	$\mathbf{X}_{i}^{i}$		+ ;	!		i Di	À
0	3 S-3 (South) 1/112d	ر}	L	3	41	YX	<b>X</b>		1	1	1	1	5
	" Methonal Blank		<u> </u>				<del></del>	<del></del>	1		i		
	1 lan	٠,	11	¦ <b>L</b> ;	4		<del></del>		1 1	<del></del> -			
	1		1		} 1	i ;	i !	1				lll	). 1
2%	61		1	<del>                                     </del>	1	<del></del>	<del></del>				\		•
į	5		ļ	<del>                                     </del>	¦	- ;			+ 1			ļ <del> </del>	
1			ì	i 1	\ 1	:	; i	: •	: !	•	1	{	1
i	5:		1	1	1			• :	i i		1	1 1	
			<del> </del>	1-		<del></del>	<del></del>	<del></del>	1 T	<del></del>	<del></del> -		
	<u> </u>		1	1	1		· i		: !	•	1		į
	A		1	j	<b>-</b>		:	1 :	:		1	1 1	
	A PROSPETED ALL TOO TRECEIVED A	<del></del>	als-	3/9	BET W.	X.ASHIA	  -	<u>a</u>	3/99	PEGEN	į.		714
	on contestant 8/12/59 / Cott	Var	6 OIL	7/9		5 JA	AMILLY	D 111	J[[[	111	DM	12	someth
	4. INDUSTRIC			į	HELMA	XUSHED /	_			RECEIVE	9 (	•	
	EMIENTS Placed and 1628 (res	olis	و م	101	7	),es.	06	ie-ge	-		MC	<u> 7</u>	
	5 Pe STLOPWISCON	210	Cuo		6	Vog	Den	0		<u> </u>	Per	Œ /	O#
						O					·		

#### Bureau for Remediation and Redevelopment Activity Detail Report - Case Tracking

hr	No
	kr

Activity Number:	03-28-228585	VPLE:	Gen Prop:	Activ	ity Type: LUST	
Region:	South Central Re	gion C	ounty: Jefferson		FID: 268568190	
		UNTY RIGHT OF V	VAY		EPA ID:	
Address:	SW CORNER OF	F CTY HWY CI & E		St	art Date: 08/27/1999	End Date: OPEN
Municipality:				Project M		Zana Batter Of Bax
Legal Description:					Priority: Unknown	
Latitude:	None Found				Score:	
Longitude:	None Found			LUST Trus	st Eligible:	
Transferred DCom:		Pecfa Eligible:				
Tracked by DCom:		Pecfa 80k:				
	P	ecfa 80k Failure:				
Who:	· · · · · · · · · · · · · · · · · · ·					
Contact Type: RP CON	TACT/AGENT			Phone: (920) 674-7391	Ext:	
Name: RANDY				Fax: 9207231391		
Title:				E-Mail:		
Company:						
Address:						
JEFFER	SON, WI 53549					
Contact Type: CONSU	LTANT			Phone: (414) 371-5026	Ext: 3028	
Name: KEN KI				Fax:		
Title:				E-Mail:		
Company:						
Address: P.O. BO	X 277					
MEQUO	ON, WI 53092027	7				
Contact Type: RESPO	NSIRLE PARTY			Phone: (920) 674-7391	Ext:	
Name:	NOIDEE I ARTI			Fax: 9207231391	LAU	
Title:				E-Mail:		
Company: JEFFER	SON COUNTY					
Address:						
JEFFER	RSON, WI 53549					
Contact Type: CONSU	በ ጥል እነጥ <b>ወ</b> ወ ል እነ <i>ሮ</i> ፤	N OFFICE		Phone: (414) 371-5026	Ext: 3028	
Name:	LIANI BRANCI	n office		Fax:	Ext. 3026	
Title:				E-Mail:		
Company: ADVEN	NT ENVIRONME	NTAL SERVICES				
Address: P.O. BO	OX 277					
MEQU	ON, WI 53092027	7				
Impacts: Soil Contamination						
Substances: Leaded Gas						
ERP Substances:						
Leaded Gas						
Treatment Flag:	Disposal Flag:	Landfill Flag:				
Disposal City:						
Actions:						
1 Notification			08/27/99			
2 RP Letter Sent	t		09/02/99			

Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Date: August 25, 1999

Advent Environmental Services - Mequon

P.O. Box 277

Mequon, WI 53092-0277 Attention: Ken Kuehn

Project: Jefferson County Highway

Enclosed are the results from 3 soil samples and 1 liquid sample received at Great Lakes Analytical on August 19, 1999. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
B908210-01	Soil, S-1 (North)	8/12/99	Percent Solids, EPA 7.3.3.1.5 WDNR DRO WDNR GRO
B908210-02	Soil, S-2 (Middle)	8/12/99	Percent Solids, EPA 7.3.3.1.5 WDNR DRO WDNR GRO
B908210-03	Soil, S-3 (South)	8/12/99	Percent Solids, EPA 7.3.3.1.5 WDNR DRO WDNR GRO
B908210-04	Liquid, Methanol Blank	8/12/99	WDNR GRO

This report may not be reproduced, except in full, without the written approval of the laboratory.

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

**GREAT LAKES ANALYTICAL** 

Kevin W. Keeley Laboratory Director

B908210-01.ADV <1>



Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Advent Environmental Services

P.O. Box 277

Mequon, WI 53092-0277 Attention: Ken Kuehn Client Project ID: Sample Descript: Jefferson County Highway Soil

ipe, C

Percent Solids, EPA 7.3.3.1.5

Analysis for: First Sample #:

B908210-01

Sampled. Received: Aug 12, 1999 Aug 13, 1999

Analyzed: Reported: Aug 19, 1999 Aug 25, 1999

#### LABORATORY ANALYSIS FOR:

### Percent Solids, EPA 7.3.3.1.5

Sample Number	Sample Description	Detection Limit %	Sample Result %
B908210-01	S-1 (North)	0.10	80
B908210-02	\$-2 (Middle)	0.10	. 83
B908210-03	S-3 (South)	0.10	82

**GREAT LAKES ANALYTICAL** 

Kevin VV. Keeley Laboratory Director

B908210-01.ADV <1>



Jefferson County Highway

Email: info@glalabs.com (847) 808-77766 FAX (847) 808-7772

Advent Environmental Services
P.O. Box 277

Mequon, WI 53092-0277 Attention: Ken Kuehn Client Project ID: Matrix Descript:

Entropy and the control of the contr

Matrix Descript: Soil
Analysis Method: WDNR DRO
First Sample #: B908210-01

Sampled: Received: Extracted:

Aug 12, 1999 Aug 13, 1999 Aug 17, 1999

Analyzed: Reported:

Aug 24, 1999 Aug 25, 1999

#### DIESEL RANGE ORGANICS

Sample Number	Sample Description	Detection Limit mg/kg, Dry Weight (ppm)	High B.P. Hydrocarbons mg/kg, Dry Weight (ppm)	Chromatogram Description
B908210-01	S-1 (North)	6.2	8.9	Diesel Range, Late Gas Range, Early Peaks, Non-Characteristic Diesel Pattern
B908210-02	S-2 ( Middle)	6.0	76	Diesel Range, Diesel Pattern, Early Peaks
B908210-03	S-3 (South)	61	970	Diesel Range Early Peaks, Non-Characteristic Diesel Pattern

High Boiling Point Hydrocarbons is performed as described in Leaking Underground Storage Tank Analytical Guidance, July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL** 

Kevin W: Keeley Laboratory Directo

B908210-01.ADV <2>



Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Advent Environmental Services

P.O. Box 277

Mequon, WI 53092-0277 Attention: Ken Kuehn

Client Project ID: Matrix Descript:

Şoll

Analysis Method: First Sample #:

Jefferson County Highway

WDNR GRO B908210-01

Sampled: Received:

Aug 12, 1999 Aug 13, 1999

Aug 18, 1999

Analyzed: Reported:

Aug 26, 1999

#### **GASOLINE RANGE ORGANICS**

Sample Number	Sample Description	Detection Limit	Low/Medium B.P. Hydrocarbons mg/kg, Dry Weight	Chromatogram Description	
		mg/kg, Dry Weight (ppm)	(ppm),		
B908210-01	S-1 (North)	6.3	55	Gas Range, Several Large Peaks, Elevated Baseline	
B908210-02	S-2 (Middle)	6.0	75	Gas Range, Several Large Peaks, Elevated Baseline	
B908210-03	S-3 (South)	61	710	Gas Range, Several Large Peaks, Elevated Baseline	

Low to Medium Boiling Point Hydrocarbons is performed as described in Leaking Undergound Storage Tank Analytical Guidance July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

Kevin W. Keeley Laboratory Director

B908210-01.ADV <3>



Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Advent Environmental Services P.O. Box 277 Meguon, WI 53092-0277

Attention: Ken Kuehn

Client Project ID: Matrix Descript: Analysis Method: First Sample #:

Jefferson County Highway Liquid

WDNR GRO B908210-04 Sampled: Aug 12, 1999 Received: Aug 13, 1999

Analyzed: Aug 18, 1999 Reported: Aug 26, 1999

**GASOLINE RANGE ORGANICS** 

Sample Number			Low/Medium B.P. Hydrocarbons µg/L (ppb)	Chromatogram Description
B908210-04	Methanol Blank	5,000	N.D.	

Low to Medium Boiling Point Hydrocarbons is performed as described in Leaking Undergound Storage Tank Analytical Guidance July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection.

**GREAT LAKES ANALYTICAL** 

Kevin W. Keeley Łaboratory Director

B908210-01 ADV <4>

Advent Environmental Services, Inc.

October 28, 1999

Mr. Randy Kuhl 631 N. Watertown Road Jefferson, WI 53549 FEB 1 6 2011

FRS DIVISION

Re:

Site Assessment Report for Underground Storage Tank (UST) Closure, Jefferson County Highway Department Project, Intersection of County Highways E and CI (right of way),

Sullivan, Wisconsin

Advent Project No. 990090.00.

Dear Mr. Kuhl:

Advent Environmental Services, Inc., has prepared a Site Assessment Report for Underground Storage Tank Closure for the Jefferson County Highway Department project located at the intersection of County Highways E and Cl. Gasoline range organic (GRO) and diesel range organic (DRO) concentrations were detected in soil samples collected from beneath the 1,000-gallon and 300-gallon leaded gasoline underground storage tanks (USTs). Laboratory analysis revealed GRO and DRO concentrations in excess of the Wisconsin Department of Natural Resources (WDNR) site investigation guideline of 10 ppm. Advent notified the WDNR of this release on August 27, 1999. Advent recommends investigating the extent of this petroleum release.

Advent has submitted this report to the Wisconsin Department of Natural Resources (WDNR) at the following address:

Ms. Marilyn Jahnke
Remediation and Redevelopment Program
WDNR – South Central District
3911 Fish Hatchery Road
Fitchburg, WI 53711-5397

If you have any questions or concerns, please call me at (414) 371-5026, ext. 3028.

Sincerely.

Ken Kuehn

Geologist — Mequon Office

CC: Ms. Marilyn Jahnke, WDNR Remediation and Redevelopment Program

990090r0a.doc



### Site Background Information

The underground storage tank (UST) systems were located in the Jefferson County Highway right of way and fall under the jurisdiction of the Jefferson County Highway Department. The UST systems were located at the southwest corner of the intersection of County Highways E and Cl, Sullivan, Wisconsin (NW¼, SE¼, Sec. 34, T.6N., R.16E.). The area is located in the Jefferson County right of way adjacent to a residential/commercial building. (See Figure 1.) The site is surrounded by residential and commercial properties.

One 1,000-gallon leaded gasoline UST and one 300-gallon leaded gasoline UST were located in the Jefferson County right of way. These USTs were used for retail sales of gasoline in the past, at the adjacent property. (See Figure 2.) The USTs were not registered with the Wisconsin Department of Commerce (WDCOM).

#### Tank Activities and Excavations

Advent provided closure assessment services for the removal of one 1,000-gallon leaded gasoline UST and one 300-gallon leaded gasoline UST on August 12, 1999. Copies of the Checklist for Tank Closure (Form ERS-8951) and the Underground Flammable/Combustible Liquid Storage Tank Inventory (Form ERS-7437) are included in Appendix A. The original forms were submitted to WDCOM by Inspector Bill Shane of the Wisconsin Department of Commerce-Area 4. The certified site assessor was Mr. Ken Kuehn (certification number 41561) of Advent. The certified remover/cleaner was Mr. Ricky Klebenow (certification number 41650) of Advent.

### Tank Cleaning and Disposal

The USTs were cleaned on-site by removing the side portion of the tanks and scraping the inside of the tanks. All tank sludge material generated was transferred into one 55-gallon drum. After cleaning, the USTs were labeled and and left on-site for the Jefferson County Highway Department to dispose of as scrap.

### Surplus Product Management

No surplus water or petroleum product was encountered during the UST cleaning process.

### Tank Sludge Management

Approximately 25 gallons of waste sludge material consisting of leaded gasoline, water, and inorganic solids was generated at the site from cleaning the USTs. This material was placed into one 55-gallon drum and is pending approval for disposal by WRR Environmental Services Co., Inc., Eau Claire, Wisconsin. (See Appendix B.)

#### Site Location

See Figure 1.

#### Site Layout Plan

See Figure 2.

#### Visual Inspection

The ambient air temperature was 83<sup>D</sup>F with partly cloudy skies at the time of the USTs' closure assessment. The USTs were located in a common tank bed beneath sand and gravel in the Jefferson County right of way near the southwest corner of the intersection of County Highways E and Cl. (See Figure 2.) No unanticipated USTs were encountered in the excavation.

The depth of the UST excavation was approximately 6 feet below ground surface (bgs). One to two feet of overburden was removed from above the USTs. Petroleum soil odor and staining were observed in soil samples collected from beneath the USTs. The native soil type encountered was brown fine to medium silty sand with some gravel. Freestanding water was observed in the excavation at a depth of approximately 8 feet bgs.

There were numerous holes observed in the USTs ranging from 1 millimeter to 6 centimeters in size. The 1,000-gallon leaded gasoline UST was 3.5 feet in diameter by 7.5 feet long. The 300-gallon leaded gasoline UST was 3 feet in diameter by 5 feet long.

The piping consisted of fill pipes directly above the USTs. The product feed pipes went to a concrete pump island located approximately 2 feet from the 300-gallon UST. The pump dispenser was not present at the time of the UST closures. The piping was in good condition, and no holes were observed.

#### Soil Sampling and Field Screening Results

To assess the leaded gasoline USTs systems, Advent collected a total of three soil samples from beneath the USTs. All soil samples collected were analyzed for gasoline range organics (GROs) and diesel range organics (DROs). A description of standard sampling and field screening techniques is included in Appendix C. The results of laboratory analyses are summarized in Table 1.

#### Lab Results

GROs and DROs were detected in all three of the soil samples (S-1 to S-3) analyzed. The concentrations ranged from 8.9 parts per million (ppm) to 970 ppm. Laboratory reports and chain of custody are included in Appendix D.

#### Conclusion and Recommendations

Gasoline range organic (GRO) and diesel range organic (DRO) concentrations were detected in soil samples collected from beneath the 1,000-gallon and 300-gallon leaded gasoline underground storage tanks (USTs). Laboratory analysis revealed GRO or DRO concentrations in excess of the Wisconsin Department of Natural Resources (WDNR) site investigation guideline of 10 ppm in all three samples. Advent notified the WDNR of this release on August 27, 1999. Advent recommends investigating the extent of this petroleum release.

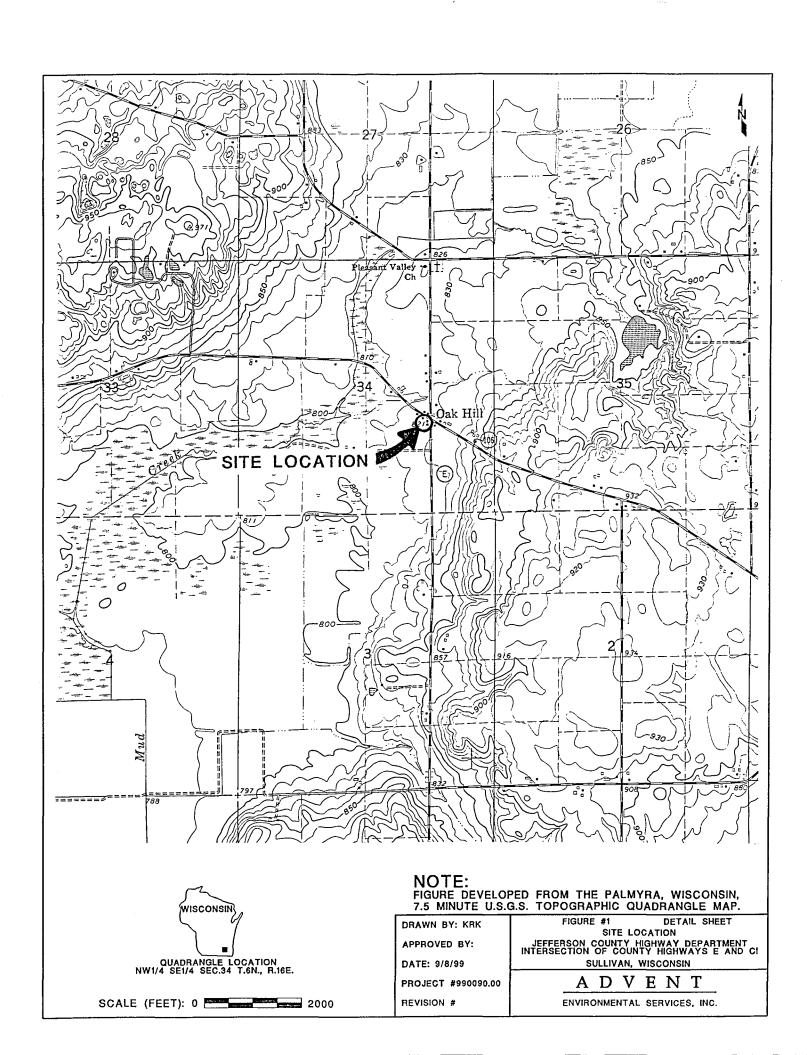
#### TABLE 1 JEFFERSON COUNTY HIGHWAY DEPARTMENT INTERSECTION OF COUNTY HIGHWAYS E AND CI LABORATORY RESULTS Sample **UST Sample Location** Sample Depth Soil **GROs DROs** ID (feet) Type (ppm) (ppm) S-1 300-gallon Leaded Gasoline UST, 7.5 Silty Sand 55 8.9 North Between 1,000-gallon and 300-gallon Leaded Gasoline USTs 1,000-gallon Leaded Gasoline UST, S-2 7.5 Silty Sand 75 76 7.5 Silty Sand S-3 710 970

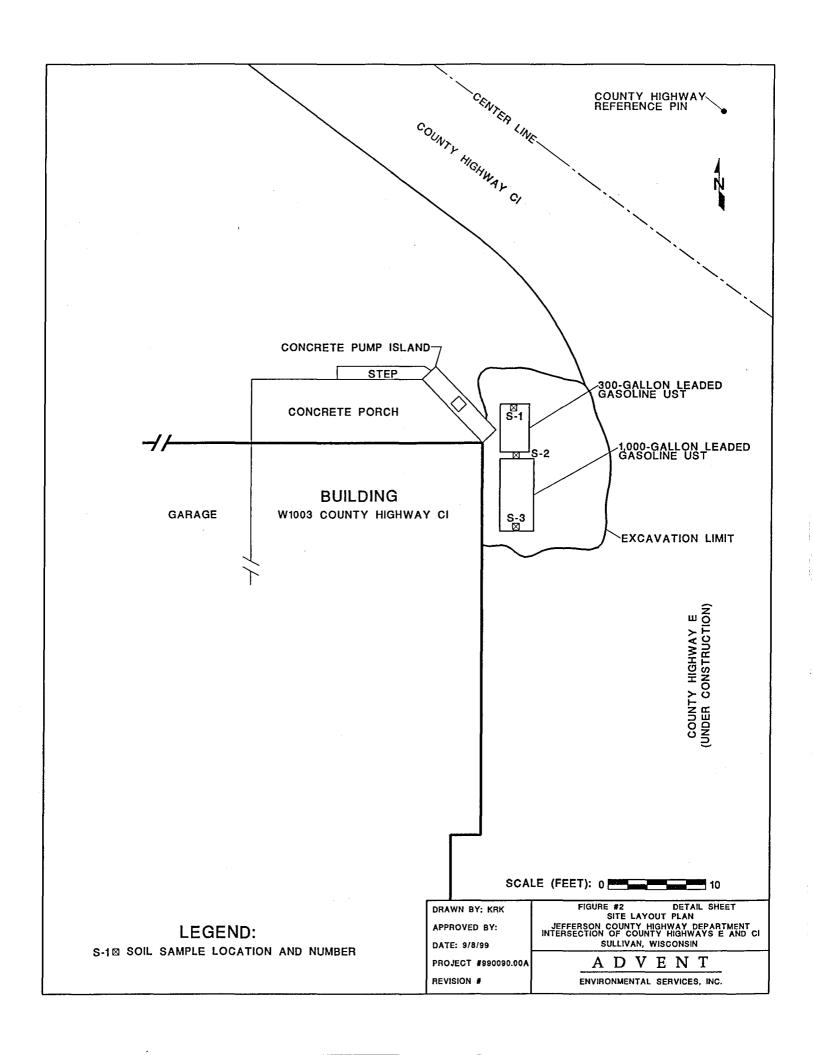
GRO = gasoline range organics

DRO = diesel range organics

ppm = parts per million

Shaded areas indicate concentrations above the WDNR investigative guideline of 10 ppm.





## APPENDIX A

Checklist for Tank Closure (Form ERS – 8951) and Underground Flammable/Combustible Liquid Storage Tank Inventory (Form ERS – 7437)

### Complete one form for each site closure.

The information you provide may be used for secondary purposes [Privacy Law, s.15.04 (1)(m)].

### CHECKLIST FOR TANK CLOSURE

THE PARTY OF THE P

### CHECK ONE: **YUNDERGROUND**

**ABOVEGROUND** FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE N/A BOX BELOW

### RETURN COMPLETED CHECKLIST TO:

Wisconsin Department of Commerce **ERS Division** Bureau of Storage Tank Regulation

P.O. Box 7837 Madison, WI 53707-7837

A. IDENTIFICATION:	(Please Print	t) Indicate wheth	ier closure i	s for:	Tank Syst	em 🔲 Tank O	nly 🔲 P	iping Only
1. Site Name 2. Owner				wner Name			· ·	
INTERSECTION OF COUNTY RUADS ESCT			<i>U</i>	Crraison	COUNTY H	16H NUA	4 DEPT	
Site Street Address (not P.O. Box)  N 1003 CXXVIY HWY CI  West Wool Cock ST						in the state		
☐ City	☐ Village	Ş≰Town	of:	ΣK.	City Village	Town of:	State	Zip Code 53549
State WT	Zip Code	County	ENSON	Coun		Telephone No.	include area	11111
3. Closure Company Nan	ne (print)	OFF			Street Address	(920)	123-1	39/
DUENT ENU		ITAL SELVIGI				egles er egenetigter a	Situate de Atolica	and the state of t
Closure Company Telepho	one No. (include a	area code)		pany C	ity, State, Zip Code			1
<u>(414) 371</u>					WI	53092-	0271	· .
1. Name of Company Per					any Street Address, C		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
Telephone No. (include ar	ea code) Ce	ertified Assessor Nam	e (print)	Asse	ssor Signature		ر کور <i>ن - کو</i> or Certification	
(4/4) 37/		CONKije	Liji	1	Tour North		1561	
Tank ID#	Closure	Temp. Closure	Closure in P	lace	Tank Capacity	Contents*	Closure	Assessment
<del>1. /4</del>	JSK				300	LEADED	XY	□ N
2. P	₩.				1000	LEADED	QΥ	□N
3							Y	□N
4.				. 6. 11		153413 . V	_	□ N
Indicate which produc	ct: Diesel: Lea	ded: Unleaded: F					te/Used Mot	3 · · · · · · · · · · · · · · · · · · ·
Flammable/Combusti								and
CAS number(s)	<u> </u>		; 0	ther _				·
■Vritten notification was	provided to the	local agent 15 day	s in advance	of clos	sure date		XY [	]N □NA
All local permits were o	btained before l	beginning closure.			•••••			]N □NA
Check applicable box			nents in Sect	ions E	3-E. 10 4 5 5 5 7 1 1 1	<del></del>		spector ∴ NA
B. TEMPORARILY OL			ماماط بينامام			<u>V</u>	erified <u>V</u>	<u>rerified</u>
Written inspector a is effective until (pr		orary closure obtai	nea, which				ΥΠN	
Product Remove	-					Щ	, [] <sub>14</sub>	
. a. Product lines	drained into tan	k (or other contain					Y $\square$ N	
b. All product rea	moved to botton	n of suction line, O	R				$\mathbf{Y}_{i}$ $\mathbf{\overline{\square}}$ $\mathbf{N}$	
· · · · · · · · · · · · · · · · · · ·							Y ∐N	
2. Fill pipe, gauge p							Y UN	
<ol> <li>All product lines a</li> <li>Dispensers/pump</li> </ol>							Y IIN Y N	
							·· <del>-</del>	·
5. Vent lines left open.								
CLOSURE BY REMOVAL     Product from piping drained into tank (or other container).								
Product from pipi	ing drained into	tank (or other cont	ainer)		***************************************		Ý· □N	ПП
2. Piping disconnected from tank and removed.								
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps								
4. All pump motors and suction hoses bonded to tank or otherwise grounded.								
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.								
NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.								
6. Vent lines left connected until tanks purged.  7. Tank openings temporarily plugged so vapors exit through vent.								
Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.								
9. Tank removed from excavation after PÜRGING/INERTING; placed on level ground and blocked to								
The provent mayament in the control of the control								
10! Tank cleaned before being removed from site.								
LAS-8951 (R.5/98)		- C	ONTINUE OF	I NEY	r PAGE			
LHO-0931 (R.3/90)	500	ori da la companya da la companya 🗕 🔾	つい こいりしに ひい	11/EV	I TAGE * ;	1. 多数		

TO THE PLANT OF THE PROPERTY O	Control of the Contro
CLOSURE BY REMOVAL (continued)	Remover Inspector NA Verified Verified
11. Tank labeled in 2" high letters after removal but before being moved from site.  NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.	MY DN D
12. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site:  13. Form ERS-7437 or ERS-8731 filed by owner with the Dept. of Commerce Indicating closure by removal.	
14. Site security is provided while the excavation is open.	
D. CLOSURE IN PLACE	
NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF COMMERCE OR LOCAL AGENT.  1. Product from piping drained into tank (or other container).  2. Piping disconnected from tank and removed.	· Vaji EY-∏N - FI - ∏
2. Piping disconnected from tank and removed.	
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	И Т
A. All pump motors and suction hoses bonded to tank or otherwise grounded.	
<ul> <li>75. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed</li> <li>NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT. ABOVE GRADE.</li> <li>6. Vent lines left connected until tanks purged</li> </ul>	
7. Tank openings temporarily plugged so vapors exit through vent.	
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) see Section F.	
9. Tank properly cleaned to remove all sludge and residue.	
10. Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled	
11. Vent line disconnected or removed.	
12. Inventory form filed by owner with the Department of Commerce indicating closure in place	· Nation and Days
L. CLOSURE ASSESSMENTS	
NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO COMM 10.	
Individual conducting the assessment has a closure assessment plan (written) which     is used as the basis for their work on the site.	
2. Do points of obvious contamination exist?	
3. Are there strong odors in the soils?	
4. Was a field screening instrument used to pre-screen soil sample locations?	
5. Was a closure assessment omitted because of obvious contamination?	
6. Was the DNR notified of suspected or obvious contamination?	
Agency, office and person contacted:	
7. Contamination suspected because of: Odor Soil Staining Free Product Sheen on Groundwa	iter Field Instrument Test
METHOD OF ACHIEVING 10% LEVEL DESCRIPTION	· 1997年中国 - 1997年中央 11 - 14 基格
Eductor Or Diffused Air Blower	
Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12	feet above ground.
Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.	
☐ Dry Ice Dry Ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the	no grantast manaible tault avec
Dry ice evaporated before proceeding.	ile greatest possible talik area.
☐ Inert Gas (CO/2 or N/2) NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.	THE TANK MAY NOT BE
Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opportunity. Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device	
Izank atmosphere monitored for flammable or combustible vapor levels.	co grounded.
Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space mon upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removed.	
3. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW	
I the Inscritter our Lite.	
REMOVER/CLEANER/INFORMATION	
RICKY KKLEBENEW Wil & Rleb 41650	8-12-99
Remover Name (print) Remover Signature Remover Certification No. INSPECTOR INFORMATION	Date Signed
. INDRECTOR INFORMATION	
KIN SHANE DUIL WINN	36265
Aspector Name (print) Inspector Signature	Inspector Certification No.
2803	000000
DID # For Location Where Inspection Performed Inspector Telephone Number	Date Signed

	II		UNDER					leted Form To:	
l	eg Cbj #:	FLAM	MABLE/CO	<b>MBUSTIB</b>	LE LIQU	סונ	Department Bureau of S	of Commerce torage Tank Regulation	_
L	1.09 00,11		ORAGE TA			-	P.O. Box 78	iorage rank Regulation 137	п
		Informatio	n Required By :	Section 101	142 Wis	Stats.	Madison, W	1 53707-7837	
	nderground tanks in Wisconsin that ha	ave stored or a	currently store a	petroleum or	regulated	! substance	s must be regio	stored A separate	
	_m is reeded for each tank. Send eac	on completed	torm to the age	ncv desiona	ted in the	top right co	ther Have you	Loroviouely	
•	registered this tank by submitting a form	1? Ll Yes	∕Nolfves.a	re vou corre	ctina/unda	ating inform	ation only?	Yes No	
ĺ	rsona information you provide may be use	ed for secondar	y purposes. (Priv	acy Law. s. 1	5.04 (1)(m)]	<u> </u>			
ļ	his registration applies to a tank that is (c)	ieck one):					Fire Depar	tment providing fire	_
	In Use	Closed -	Tank Removed			Change (Indi		where tank is located:	
	Newly Installed Abandoned with Product		Filled with Inert M		ew owner r	name in block	(2) City	XI Village	
	Abandoned without Product (empty)		ry Out of Service with Water	- Provide Dat	e:		Town o	Lan	Q
	. IDENTIFICATION (Please Print)		with Anatel	<del></del>					_
	1. Tank Site Name In La Sea	- a.s. 1	Site Address			•	I Che Telent		
		SCI		2	-11	1		none Number	,
			<b>₩ 100</b>	3 (001	~ / \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	thurs C	(700)	723-137	_
		Town of:	-		ZIP Code	3,77	County	- 00	
	SULLVen		WISCOM	sin		3137	<u> </u>	effecton	
	Jank Owner Name	1 1	Mailing Address	_	, ,		Telephone		
	etrenson (ounty High	rich tell	141 W	1. Was		<u> </u>	19201	723-138/	_
	City Village	Towks of:	State	•	Zip Code	100	County	20	
	Dertason		CUISCOL	514	<u>533</u>	549		tterson	
	3. Frevious Name	-	Previous site ad-	dress if differe					_
	NH	1			N	7			
	Site 0 # NA		Facility ID #	NA	<del></del>	T	Customer ID #:	11 A	-
ı		<u> </u>		107		ink Capacity		7071	
	4 Tank Age (age or date installed).	Onch	OWN	<del></del>	J. 1a	nik Capacity	(galions):	000	_
	D. LAND OWNER TYPE (check one)	l l aggod	Federal Own	- 4	C Advanta	inal	[] Other C		
	Court	Leased	☐ Tribal Nation	ea	Munici	ıpaı	Other Gove	mment	
	OCCUPANCY TYPE (check one)		C) Trical Nation				<del></del>		
		☐ Utility	/ □ Mei	rcantile/Comn	nercial	☐ Industrial	☐ School	ol Residential	
	Agricultural Backup or Eme			er (Specify:)					
	Tank Construction:			Catho	dic Protec	tion   Ove	erfill Protection?	Yes No	_
	Bare Steel		Urknown		crificial And		Il Containment?	Yes No	-
		_	ed Plastic Comp			rrent Tar	k Double Walled		
	■ Primary Tank leak detection method	ну)		itomatic tank				water monitoring	_
	inventing control and tightness testing			terstitia! monit			√ Vapor m	vater morntoning ionitoring	
	Manual tank gauging (only for tanks of 1)	.000 gallons or	less) 🔲 St	atistical Inven		ciliation (SIR	Vapor m Unknow	n	
	- Piping Construction:			Cathod	lic Protecti	on	Pine Double Wal	lled? ☐ Yes No	
	Bare Stee! Coated		Unknown		rificial Anod		i ipe boodie via:	led! [] reszgito	
	Finerg ass Flexible		□N/A	X N/A	ressed Curi	rent		•	
	Other specify)	esurgad pinig	with ™ A. 🔲		alarm	Or C C Roy	v rastrictor 1	Jnknown	-
	Primary Piping System Type: Pre- Suction piping with check valve at tank		on piping with ch					Not needed if waste oil	
	Piping Leak Detection Method (used it					ightness test		onic line leak monitor	_
	Groundwater monitoring		Interstitial m		□ N	ot required	Unkno		
	1 Vapor Recovery/Stage II CARB #:						7-		_
	Fiberglass Other (specify				tional - Pro	vide Date (π	io/day/yr):		
	TANK CONTENTS (Gurrent, or previo		tank now empty)				E 01	Carabal	
	Diesel	Leaded			leaded nd/Gravel/S	=	Fuel Oil	Gasohol Premix	
	Other (Specify):	Chemical		==	rosene	• =	Aviation	Hazardous Waste*	
	Waste Used Motor Oil		ical name and nur			<u>.</u>			
	If chosen, this tank is NOT PECFA eligible	•		Geo Latitud	ie:	NIA	Geo Longitud	de: 1077	_
	1 #! Tank Closed, Abandoned or Out of	Service, give o	late	Has a site a	ssessmen	t been com	oleted (see reve	rse side for details)	_
	/day/yr):	, n	$\sim$	W	- No		-3	·	
	HOZOER 1	21 D	2.7	Yes	No	I India-ta	hatha-		_
	Owner or Operator Name (please print):	Jerra	son H	khuo	8	Indicate v			
	122 av Cover	Kondo	- Kuhl	1	U	Owne		tor	_
	They'or Operator Signature:	A	h	7		Date Sign	ed 0/,_	100	
	County rep. Kan	ly Kin	<u> </u>			<u> </u>	0//2	477	_
	: Refer to comments on reverse	side of form.	,						
								the state of the s	

=437 (R 04/99)

		GROUND		Send Completed Form To: Department of Commerce
Reg Obj #: Bureau of Storage Tank Regulation				Bureau of Storage Tank Regulation
		NK INVENTORY		P.O. Box 7837 Madison, WI 53707-7837
Inderground tanks in Wisconsin that he	Information Required By ave stored or currently store	petroleum or reculate	d substances me	ust he registered. A senarate
orm is needed for each tank. Send each	ch completed form to the age	ncy designated in the	e top right corner	Have you previously
egistered this tank by submitting a forn ersonal information you provide may be us	1? Yes No If yes, a	re you correcting/upo	dating information	n only? 🗌 Yes 🔲 No
This registration applies to a tank that is (ci	heck one):	day 2011, 3. 13.04 (1)(III	,,	Fire Department providing fire
☐ In Use	Closed - Tank Removed	Ownership	Change (Indicate	coverage where tank is located:
Newly Installed Abandoned with Product	Closed - Filled with Inert N Temporary Out of Service	laterials new owner	name in block 2)	City Village
Abandoned without Product (empty)	Abandon with Water	, tottee bute.	***************************************	Town of RomE
A. IDENTIFICATION (Please Print)	GCI   Site Address			
1. Tank Site Name WTU SECTION OF CTY AD		anty HWY	CT	Site Telephone Number
City Village	Nown of: State	Zip Code		(920) 723-119/ County
SULLIVAN	UL	53/	'3フ	JEST ENSON
2. Tank Owner Name	Mailing Address			Telephone Number
EFFENSON CTY HWY DE		ST Wookco		1920 1723-1391
Village Village	Town of: State	Zip Code	C49	JEFFENSON
3 Previous Name		dress if different than #		DAIA
3 Pievods Marine	Trevious site au	areas ir amerem train #	•	
=. Site ID #.	Facility ID #.	<del> </del>	Cus	itomer ID #;
_ 4 Tank Age (age or date installed)	UNKNOW	5. 1	ank Capacity (gall	ons): 300
D. LAND OWNER TYPE (check one)				
County Federa		ed 🔲 Muni	cipa!	Other Government
Private State  CCUPANCY TYPE (check one)	☐ Tribal Nation		<del></del>	
Gasifieta I Sales Bulk Storage		rcantile/Commercial	Industrial	☐ School ☐ Residential
	ergency Generator	ner (Specify:)  ! Cathodic Prote	ation   Overtil	Protection? Yes No
Tank Construction.  Eare Steel		Sacrificial Ar	nodes Spill Co	intainment? Yes No
Fiber ; ass Steel - Fiber	erglass Reinforced Plastic Comp	osite     Impressed C	turrent L.	ouble Walled? Yes No
Primary Tank leak detection method		utomatic tank gauging		☐ Groundwater monitoring
Invertory control and tightness testing Manual tank gauging (only for tanks of 1		terstitial monitoring atistical Inventory Reco	incitiation (SIR)	☐ Vapor monitoring ☐ Unknown
Piping Construction:	,ees ganons of less;	Cathodic Protect	.:	Double Walled? Yes No
Bare Stee! Coated		Sacrificial And	, , ,	Double Walled? Yes
Fiberglass Flexible Other/specify)	□N/A	Impressed Cu	irrent	•
Primary Piping System Type: Pr.	essurized piping with A			trictor Unknown
Suction piping with check valve at tank Piping Leak Detection Method. (used i	Suction piping with ch	eck valve at pump and i	inspectable Tightness testing	Not needed if waste oil  Electronic line leak monitor
Groundwater monitoring	nonitoring		Not required	Unknown
Vapor Recovery/Stage II CARB #: Other (specify	): Flexible	Operational - P	rovida Data (molda	NA
TANK CONTENTS (Current, or previous			TOVICE Date (MO/Ga	19191).
Diese!	Leaded	Unleaded	☐ Fuel	
Other /Specify):	Empty Chemical	☐ Sand/Gravel	/Slurry* ∐ Unkr ☐ Avia	nown* Premix
WasterUsed Motor Oil	(Indicate chemical name and nu	. —	LI Avia	tion Hazardous Waste*
"If chosen, this tank is NOT PECFA eligible	3.	Geo Latitude:		Seo Longitude:
If Tank Closed, Abandoned or Out of	Service, give date	Has a site assessme	ent been complete	d (see reverse side for details)
5/day/yr): 8-12.	-99	Yes No		
imper or Operator Name (please print):	/	<u> </u>	Indicate wheth	ner:
EFFERSON CTY HWY DA	EPT. (RANDY K	UHL)	Owner or	☐ Operator
mer or Operator Signature:	1 V. 10	and the same of th	Date Signed	3-17-99
- COUNTY - CSP*	<del></del>			-101
: Refer to comments on reverse	Side Of FORM.	2.3		
12-1-21 (11 0-110)				

## APPENDIX B

WRR Profile Sheet For UST Program (UST form 4/95)





5200 State Road 93, Eau Claire, Wisconsin 54701

"Dedicated to Providing Quality Service into the 21st Century"

DATE: August 17, 1999

TO: ADVENT/mq

CUSTOMER: Jefferson County Highway Dept

RE: PROFILE ID#: 99080184-1FA221

MATERIAL: Leaded Gasoline

WRR is pleased to inform you that your material can be processed at WRR. See current *UST PRICING SCHEDULE* for estimated cost of disposal. <u>Off-specification material will result in a price adjustment.</u>

Transportation of this material requires special licenses and paperwork. WRR will handle all necessary paperwork for the transportation of your material.

In order for you to have a pick-up of your material or delivery of a product, you must call our Dispatch Office at 715-836-8771.

If you have any questions concerning this proposal, please call. Thank you.

Mel Eu Rendy Kuhl
Mel Eu Rendy Kuhl
Mel Eu Rendy Kuhl
Mel Eu Rendy Kuhl

Tefferson, wI 53549

Tefferson, wI 53549

Trequested Junita, (MPG)

Mel Phimork For

Pre-Signiture



715-834-9624 5200 State Road 93, Eau Claire, Wisconsin 54701

## PROFILE SHEET FOR UST PROGRAMMed to Providing Quality Service into the 21st Century"

			_	•	
A. GENERAL INFO	RMATI(	DN	•	. (	
Generator Name (Ta	ınk Own	er) Defferson	Count	Etterway De	7
Site Address W			tishwa	Ex 220	_
City, State, Zip		of Sullivan	, wI	(153137	_
Contact	1. 60	ande Kruh	7		_
Phone (920)_	1211	3 - 439/	<del>\</del>		_
EPA ID#	UFF	(V, S, Q, O	<del>//</del>	<u> </u>	
Contractor: 1		:	Distributor		
Name / HOU	ent a	inv. Jervices	Name	N 84	-
Address fo		(A7)	Contact_		<b>-</b> .
	en k	100, at 53092	<del></del>		
Phone (Phone	8	20-1998	· · · · · · · · · · · · · · · · · · ·		
800					
Bill to: Gener	ator	☐ Contracto	or 🗵	Distributor	
B. UNDERGROUND	TANK II	NFORMATION ;	200 a l		
0		1,0			
Capacity (Gal.)  Date Tank was Taker	Out of	Service S	112 700	04	
Date Talk was Taker	out of a	Scrvice	12/3/	1	
Material Tank Last Contain	ed:				
Description	Please	# of Gallons to be	Profile ID# (	Assigned by WRR)	7
	Check	disposed of at WRR		,	
Unleaded Gasoline	One	<u> </u>			$\mathbf{I}$
		a d			ł
Leaded Gasoline	X	25 gellous			1
Diesel Fuel					-
Heating Oil #1, #2		·			
Heating Oil #5, #6 Waste Oil					
Other					
			L_/		
Physical Description of M	aterial		, d S		
		90-97% US	loid?		
Does the sludge contain F Will the tank be disposed of		YES □ RR? YES □	NO A	XĮ. √	
Sample Provided?		YES $\square$	NO 4	<b>X</b>	
Transportation (of sludge) Material to be Shipped In?	will be		WRR Bulk	DISTRIBUTOR I	
interested to be pullbed III.		Drums 1X	Duik ()	- 1X55 gallan Ori	ilu
Certification: I, the undersigned, the				and the standard tracks and the	
	of the was	te. I have examined and am familiar	with the information su	bmitted on this form. To the best of my	
knowledge it is true and correct, and that a	of the wast all known a	te. I have examined and am familiar	with the information su	bmitted on this form. To the best of my	

## APPENDIX C

Sampling and Field Screening Procedures

#### SAMPLING AND FIELD SCREENING PROCEDURES

### Soil Sample Collection

We collected soil samples from native soil within the UST excavation using a backhoe bucket. We sampled soils by removing a minimum of 6 inches of soil from the backhoe bucket with a stainless steel trowel. Soil samples that could be acquired at shallow depths (less than 4 feet) were obtained by removing a minimum of 6 inches of soil with a stainless steel trowel and collecting the sample. Adequate soil was collected and split into two samples: one for field screening and one for laboratory analysis. Soil sampling locations were determined in accordance with WDILHR 10 Appendix B, Part IV, Letter C, "Soil Sample Locations" and applicable soil sampling and WDNR guidelines.

## Soil Samples Submitted for Laboratory Analysis

After collection, we put the soil samples into the appropriate containers as follows:

ANALYTE	CONTAINER TYPE	FIELD PRESERVATIVE
GRO	2-Ounce jar	Methanol
DRO	4-Ounce jar	None

#### TLC = Teflon-lined cap

Samples were then sealed and cooled to 4°C for transport to the laboratory. All samples were labeled with the following information:

- Site name
- Sample number
- Sample location
- Date and time of collection
- Analysis requested
- Name of sampler
- Other applicable information (i.e., PID readings, odors)

#### Field Screening Procedures

We field screened samples with a PID using the headspace procedure. Results from this screening survey were used to select samples for laboratory analysis. The PID calibration was checked daily with isobutylene gas and at appropriate time intervals according to WDNR guidelines. The headspace procedure was conducted as follows:

- Headspace samples were collected in clean 4-ounce glass jars and filled half-full with the sample material.
- The mouth of the headspace jar was then covered with heavy-gauge aluminum foil and sealed with the lid of the jar.
- The sample was then agitated for at least 30 seconds to break soil clods and release headspace vapors.

- When ambient air temperatures were below 70°F, the headspace samples were placed in a warm environment out of direct sunlight and allowed to equilibrate to approximately 70°F. When ambient air temperatures were above 70°F, samples were placed in a cooler environment out of direct sunlight and allowed to equilibrate to approximately 70°F.
- Following equilibration, the sample headspace was analyzed by inserting the PID probe through a single, small hole in the foil seal to a position halfway between the seal and sample surface and then recording the highest instrument readings.
- New headspace jars were used for each site. After use, the headspace jars were cleaned with an Alconox<sup>TM</sup> and water solution and allowed to dry. If no VOC carryover was identified with a PID, the jars were reused; if VOC carryover was identified, the sample jars were discarded.

#### Chain of Custody Procedures

Advent completed a chain of custody record in triplicate immediately after sample collection. The chain of custody record was kept with the samples during transport to the laboratory. When transferring sample custody, the individuals relinquishing and receiving the samples signed, dated, and noted the time on the chain of custody record. A designated sample custodian accepted custody of the shipped samples and verified that the sample identification numbers matched those on the chain of custody record. A copy of the chain of custody record was then retained by the laboratory until analyses were completed. The record was then transferred to Advent with the analytical results and maintained in the project file.

## APPENDIX D

Laboratory Results and Chain of Custody



Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Date: August 25, 1999

Advent Environmental Services - Mequon

P.O. Box 277

Mequon, WI 53092-0277 Attention: Ken Kuehn

Project: Jefferson County Highway

Enclosed are the results from 3 soil samples and 1 liquid sample received at Great Lakes Analytical on August 19, 1999. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
<u>В</u> 908210-01	Soil, S-1 (North)	8/12/99	Percent Solids, EPA 7.3.3.1.5 WDNR DRO WDNR GRO
B908210-02	Soil, S-2 (Middle)	8/12/99	Percent Solids, EPA 7.3.3.1.5 WDNR DRO WDNR GRO
B908210-03	Soil, S-3 (South)	8/12/99	Percent Solids, EPA 7.3.3.1.5 WDNR DRO WDNR GRO
B908210-04	Liquid, Methanol Blank	8/12/99	WDNR GRO

This report may not be reproduced, except in full, without the written approval of the laboratory.

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

**GREAT LAKES ANALYTICAL** 

Kevin W. Keeley Laboratory Director



Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Advent Environmental Services -

P.O. Box 277

Mequon, WI 53092-0277 Attention: Ken Kuehn

Client Project ID: Sample Descript:

Jefferson County Highway Soil

Percent Solids, EPA 7.3.3.1.5 Analysis for: First Sample #: B908210-01

Sampled: Received:

Aug 12, 1999 Aug 13, 1999<sub>II</sub>

Aug 19, 1999

Analyzed: Reported:

Aug 25, 1999

## LABORATORY ANALYSIS FOR:

Percent Solids, EPA 7.3.3.1.5

Sample Number	Sample Description	Detection Limit %	Sample Result %
B908210-01	S-1 (North)	0.10	80
B908210-02	S-2 (Middle)	0.10	83
B908210-03	S-3 (South)	0.10	82

**GREAT LAKES ANALYTICAL** 

Ḱevin∜√ν. Keeley Laboratory Director



Jefferson County Highway

Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Advent Environmental Services P.O. Box 277

Mequon, WI 53092-0277 Attention: Ken Kuehn Client Project ID: Matrix Descript:

Matrix Descript: Soil
Analysis Method: WDNR DRO
First Sample #: B908210-01

Sampled: Aug 12, 1999
Received: Aug 13, 1999
Extracted: Aug 17, 1999
Analyzed: Aug 24, 1999
Reported: Aug 25, 1999

### DIESEL RANGE ORGANICS

Sample Number	Sample Description	<b>Detection Limit</b> mg/kg, Dry Weight (ppm)	High B.P. Hydrocarbons mg/kg, Dry Weight (ppm)	Chromatogram Description
B908210-01	S-1 (North)	6.2	8.9	Diesel Range, Late Gas Range, Early Peaks, Non-Characteristic Diesel Pattern
B908210-02 .	S-2 ( Middle)	6.0	76	Diesel Range, Diesel Pattern, Early Peaks
B908210-03	S-3 (South)	61	970	Diesel Range,Early Peaks, Non-Characteristic Diesel Pattern

High Boiling Point Hydrocarbons is performed as described in Leaking Underground Storage Tank Analytical Guidance, July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL** 

Kevin W. Keeley Laboratory Director



Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Advent Environmental Services Client Project ID: Jefferson County Highway Sampled: Aug 12, 1999 Matrix Descript: Received: P.O. Box 277 Soil Aug 13, 1999 Analysis Method: Mequon, WI 53092-0277 WDNR GRO First Sample #: Attention: Ken Kuehn B908210-01 Analyzed: Aug 18, 1999 Reported: Aug 26, 1999

#### **GASOLINE RANGE ORGANICS**

	Sample Number	Sample Description	Detection Limit mg/kg, Dry Weight (ppm)	Low/Medium B.P. Hydrocarbons mg/kg, Dry Weight (ppm)	Chromatogram Description
-	B908210-01	S-1 (North)	6.3	55	Gas Range, Several Large Peaks, Elevated Baseline
	B908210-02	S-2 (Middle)	6.0	75	Gas Range, Several Large Peaks, Elevated Baseline
	B908210-03	S-3 (South)	61	710	Gas Range, Several Large Peaks, Elevated Baseline

Low to Medium Boiling Point Hydrocarbons is performed as described in Leaking Undergound Storage Tank Analytical Guidance July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley Laboratory Director



Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

Advent Environmental Services P.O. Box 277

Meguon, WI 53092-0277 Attention: Ken Kuehn

Client Project ID: Matrix Descript:

Jefferson County Highway

Liquid

Analysis Method: **WDNR GRO** First Sample #: B908210-04

Sampled: Received:

Aug 12, 1999 Aug 13, 1999

Analyzed:

Aug 18, 1999

Reported: Aug 26, 1999

### **GASOLINE RANGE ORGANICS**

Sample Number	Sample Description	Detection Limit μg/L (ppb)	Low/Medium B.P. Hydrocarbons µg/L (ppb)	Chromatogram Description
B908210-04	Methanol Blank	5,000	N.D.	·

Low to Medium Boiling Point Hydrocarbons is performed as described in Leaking Undergound Storage Tank Analytical Guidance July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley Laboratory Director

B908210-01.ADV <4>



# CHAINOFCUSTODY REPORT

138 h P. \_\_\_/ Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772

Drookfield, WI 53501 (414) 798-1030 FAX (414) 798-1066

Client: Holyest Env. Services	BILL TO: Advect Env. TAT: 5 DAY A DAY 3 DAY 2 DAY 1 DAY < 24 HRS
Address: Po Box 277	Address: Sewe DATE RESULTS NEEDED: Normal
160 QUANT 607 53092-0877	
Me Quan, CI 53092-0277  Report to: Ken kucky Fax #: (850)  Report to: Ken kucky Fax #: (850)	State & OF WS (Phone #: (80) 880-698 AIR BILL NO. W. PIU
Project Sefferson County Highwoff	/ / / / / / / / / / / / / / / / / / /
PO/Quote #: 990000 FIELD ID, LOCATION	SAMPLE CONTROL
FIELD ID, LOCATION	LABORATORY ID NUMBER
15-1 (North) 8/12/09/2012	1 5 Method 3 G XXX 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
25-2 (mode) 11/1:08m	
3 5-3 (South)	
U 1:24M	. 4 4 3 4 8 8 8 8
4 Notice of Blank 11 Washy	,   '(   11     '(   X
5	
6	
7	
8	
9	
10]	
RELINQUISHED A LONG RECEIVED	SI 3 DELINDUSHIA 1 DAIL )
Load X mell 8 12157 & Vita	MATA OF THE MEANAGEAN OF THE TOTAL TOTAL OF A STATE OF THE TOTAL OF TH
RELINQUISHED DATE RECEIVED	IME RELINQUISHED DATE RECEIVED DATE
COMMENTS: PLASE SINGLE GES	solve and Diesel Range ornance.
De SELLE OF Wiscon	nsin Cust Ovogram PAGE OF
V	

## Wisconsin Department of Natural Resources

Notification of Petroleum Contamination from Underground / Aboveground Storage Tank Systems

	ase complete this form and FAX it to the appropriate WDNR contact person (see list on back page) immediately on discovery of a release from (CIRCLE ONE): UST / AST system.
то	: WONR, Attn: Pot chong Brenda Brown
	FAX#: 263 - 8483
PL	EASE TYPE or PRINT LEGIBLY;
1.	Name, company, mailing address and phone number of person reporting the discharge:
	Advent Environmental Services
	POBOX 277 Meauon, WI 53092-0277 Ph# 371-5026  EXE#30
	Meacon, wi 33092-02/7 [1 3/1-3003
2.	Site Information
	Name of site at which discharge occurred (local name of site/business not responsible party name, unless a residence): 5efferson County (Right-Of-Woy)  Tuthsection of County Highways CI and E
000	Location (actual street address, not PO box; if no street address, describe as precisely as possible, i.e., 1/mile NW of CTHs 60 & 123 on E side of CTH 60): Southwest Corner of If the way CI and E CINTAL Section)
<u>_</u>	Municipality (city, village, township in which the site is located not mailing address):
	Town of Sullivan
i.	Sounty: Jefferson
Č	ggal Description: $N\omega_{1/4}$ , $SE_{1/4}$ , Section $34$ , $Tn_{6N}$ , Range $16(E)$ W
3.	Responsible Party (RP) and/or RP Representative Information
	RP/Business Name: Jefferson County Highway Dept.
	Contact Person (if different): Mr. Randy Kuhl
	Mailing Address (with zip code): 631 N. Watertown Road Jefferson, WZ 53549 Telephone Number:
	920-674-739/ or 920-723-139/(mobil)
4.	Identity, physical state and quantity of the hazardous substance discharged (check all that appty):
	Unleaded gasolineFuel oil  Leaded gasolineWaste oil  DieselOther

	•
5. Impacts to the environment (enter "K" for known/confirmed or '	'P" for potential for all that apply):
Fire/explosion threat	Soil contamination
Contaminated private wells (# of wells)	Surface water impacts
Contaminated public wells	Floating product
Groundwater contamination	Other
6. Contamination was discovered as a result of:  Tank closure assessmentSite assessment	_(other)
*1000	
On what date: HUS UST 12, 1998 HANALYTICAL BRESUTTS Decre	ved 8/26/99
Additional Comments	
Scripted Taken at approximated below ground Surface. Gr	notes 7,5 feet
below ground Surface. Or	ound water
encountered of offroxinel	ely 8.01-eel
	· · · · · · · · · · · · · · · · · · ·
See enclosed o	nolghical ICESUIT-
	· :
FAX numbers to report leaking tank sites in DNR's five regions a	are as follows:
Northeast Region (920-492-5859) Underground Tanks: Attention - Janis DeBrock Aboveground Tanks: Attention - Roxanne Chronert Brown, Calumet, Door, Fond du Lac (except City of Waupun	- see South Control Paging) Green
Lake, Kewaunee, Manitowoc, Marinette, Marquette, Men Waupaca, Waushara, Winnebago Counties	ominee, Oconto, Outagamie, Shawano,
Northern Region (715-365-8932); Attention - Janet Kazda: Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence,	Iron, Langlade, Lincoln, Oneida, Polk,
Price, Rusk, Sawyer, Taylor, Vilas, Washburn Counties South Central Region (608-275-3338); Attention - Marilyn Jahnke	<u>.</u>
Columbia, Crawford, Dane, Dodge, Fond du Lac (City of Wau	
Joffgrenn Lafavetto Richland Dock Coult Counting	
Southeast Region (414-229-08-10); Attention - Mike Farley:	tchung 263-8483
Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Walwortl	n, Washington, Waukesha Counties

Adams, Buffalo, Chippewa, Clark, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe,

Portage, St. Croix, Trempealeau, Vernon, Wood Counties

Rev. 9/97

West Central Region (715-839-6076); Attention - John Grump:

Pepin, Pierce,

# **Bureau for Remediation and Redevelopment**

29
----

•	Activity Detail Rep	oort - Case Tracking		$\mathcal{L}$
Activity Number: 03-28-228585 VPL	E:  Gen Prop:		Гуре: LUST	,
Region: South Central Region	County: Jefferson	_	FID: 268568190	
Location: JEFFERSON COUNTY RIGHT OF			A ID:	
Address: SW CORNER OF CTY HWY CI &		Start I	Date: 08/27/1999	End Date: OPEN
Municipality: SULLIVAN		Project Mana		Laid Dite. Of Liv
Legal Description: None Found			ority: Unknown	
Latitude: None Found			core:	
Longitude: None Found		LUST Trust Eli	igible:	
Transferred DCom: Pecfa Eligible:  Tracked by DCom: Pecfa 80k:	_			
Tracked by DCom: Pecfa 80k:  Pecfa 80k Failure:				
1 eda ook Fahure.				
Who:				
Contact Type: RP CONTACT/AGENT		` '	Ext:	
Name: RANDY KUHL		Fax: 9207231391		
Title: Company:		E-Mail:		
Address:				
JEFFERSON, WI 53549				
			_	
Contact Type: CONSULTANT Name: KEN KUEHN		Phone: (414) 371-5026 I	Ext: 3028	
Title:		E-Mail:		
Company:				
Address: P.O. BOX 277				
MEQUON, WI 530920277				
Contact Type: RESPONSIBLE PARTY		Phone: (920) 674-7391	Ext:	
Name:		Fax: 9207231391		
Title:		E-Mail:		
Company: JEFFERSON COUNTY				400
Address: JEFFERSON, WI 53549				· licates
JEITERSON, WI 33349				2012
Contact Type: CONSULTANT BRANCH OFFICE		Phone: (414) 371-5026	Ext: 3028	1/10
Name:		Fax:	1	1'
Title:		E-Mail:		MIN
Company: ADVENT ENVIRONMENTAL SERVICES Address: P.O. BOX 277			$\mathcal{O}(\mathcal{O})$	
MEQUON, WI 530920277			SP NI	IL J 100
		- 9	J' LITT	r, 199.0
Impacts:		4		alali K
Soil Contamination		1	$\cap \cup$	CA F. ther
Substances:		(	$\langle \cdot \rangle$	1 JULIA
Leaded Gas		·	1	of Man
ERP Substances:				er itte
Leaded Gas  Treatment Flag: Disposal Flag: Landfill Fla	a. C		1,700	$\sim 10^{10}$
Disposal City:	·6·		IM	1100 1251
- v-L			Al v	41 01/101/1
Actions:	00/07/00		1. Un'	100 more
1 Notification 2 RP Letter Sent	08/27/99 09/02/99		1' N JU	
Wednesday, Sep 1, 1999 11:09am	,	t of Natural Resources		Page 1 of 2
	•			110



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary Ruthe E. Badger, Regional Director South Central Region Headquarters 3911 Fish Hatchery Road Fitchburg, Wisconsin 53711-5397 Telephone 608-275-3266 FAX 608-275-3338 TDD 608-275-3231

October 25, 1999

file Ref: 03-28-228585

Mr Randy Kuhl Jefferson County Highway Dept 631 N Watertown Rd Jefferson 53549

Subject: Jefferson County Right-of-way, Southwest corner of Highway CI

and E, Sullivan

Dear Mr. Kuhl:

On August 27, 1999, the Department received notification that two underground tanks had been found in the right-of-way, soil samples had been collected, and contamination had been found. As a result of this discovery, further work will be needed to determine the extent of the contamination.

The spill law authorizes the Department of Natural Resources to enforce cleanup of contaminated sites, under s. 292.11 of the Wisconsin Statutes. As the owner of the property where a hazardous substance discharge has occurred, you are required to determine the horizontal and vertical extent of contamination and clean-up/properly dispose of the contaminants.

Your legal responsibilities are defined both in statute and in administrative rules. The hazardous substance spill law, s. 292.11 (3) Wisconsin Statutes, states:

RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Code NR 700 through NR 728 establishes requirements for interim actions, public information, site investigation, design and operation of remedial action systems, and case closure. Wisconsin Administrative Code NR 140 establishes groundwater standards.

It is important that an investigation begins at your site as soon as possible. The longer contamination is left in the environment, the farther it can spread and the more difficult and costly it becomes to cleanup. Since this cleanup must comply with Wisconsin laws and rules, professional engineering and hydrogeologic experience is necessary. Therefore, you should hire a professional environmental consultant who can assure you that Department policies and guidelines are being followed.

Your consultant will help you in providing the Department with the following:

• Submit written verification (such as a letter from the consultant) that you have hired an environmental consultant. Please submit this information within 30 days of the date of this letter.



- Submit an investigation workplan explaining what work will be performed to identify the extent of contamination. This workplan should include a time schedule. Also, please provide documentation of any previous work performed related to this release.
- Submit the investigation report defining the degree and extent of any soil and/or groundwater contamination.
- Provide a remedial action plan outlining the remedy selected.
- Provide a remedial action report with data supporting your consultant's conclusions and recommendations for future work or site closure.

In addition, you will be required to keep the Department informed on site progress by submitting 60 day updates. You will be notified when to provide the status reports at the time you submit your investigation workplan.

There are times when staffing levels do not allow us to keep current with workload demands. However, to maintain your compliance with the spill law and chs. NR 700 through NR 728, investigation and cleanup actions should not be unnecessarily delayed waiting for DNR responses. In the event that you experience delays, please refer to NR 716.09(3) regarding Department review of sites.

Your correspondence and reports regarding this site should be sent to Marilyn Jahnke, Department of Natural Resources, 3911 Fish Hatchery Road, Fitchburg WI 53711. Unless otherwise requested, please send only one copy of all plans and reports. Correspondence should be identified with the site name and address which is listed in the subject of this letter.

I have enclosed a list of environmental consultants and some important tips on selecting one. If you are eligible for Wisconsins' PECFA program (see end of letter), you will need to compare at least three consultant's proposals before making your selection. Please read this information carefully.

Reimbursement from the Petroleum Environmental Cleanup Fund (PECFA) is available for the costs of cleaning up the contamination from eligible petroleum storage tanks. The fund is administered by the Department of Commerce. Please contact DCOM at (608) 266-2424 for more information on eligibility and regulations for this program.

If you have any questions about this letter or your responsibilities, please call me at (608) 275-3212.

Sincerely,

Marilyn Jahnke, Program Assistant

Remediation & Redevelopment Telephone: (608) 275-3212

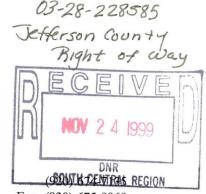
jahnkm@dnr.state.wi.us

cc: Ken Kuehn, Advent Environmental Services, PO Box 277, Mequon WI 53092

## JEFFERSON COUNTY CORPORATION COUNSEL

Courthouse, Room 209 320 South Main Street Jefferson, Wisconsin 53549-1799

PHILIP C. RISTOW Corporation Counsel



Fax: (920) 675-0068

November 23, 1999

Ms. Marilyn Jahnke Wisconsin Dept. of Natural Resources 3911 Fish Hatchery Road Fitchburg, WI 53711-5397

Re: Jefferson County Right-of-way,

Southwest corner of Highway CI and E, Sullivan

Dear Ms. Jahnke:

In response to your October 25, 1999 letter addressed to Randy Kuhl, I have had the opportunity to review ownership of the property in question. Jefferson County does not own the property, but merely has a highway easement in that location. The owners of the property are Dorothy and Thomas Jeffery, W1003 County Trunk CI, Sullivan, WI.

Some preliminary paperwork (Form LRS 8591) was filed with the Department of Commerce concerning potential registration of these tanks as belonging to Jefferson County. I am sending a copy of this letter to the Department of Commerce, Bureau of Storage Tank Regulation, to advise that agency that Jefferson County is not the owner of the real estate nor the tanks involved at this site and that any registration to that effect has been made in error.

If you need further information concerning documentation of ownership, please advise. Otherwise, I would appreciate correspondence indicating that Jefferson County will not be considered a potentially responsible party in this matter.

Sincerely,

Philip C. Ristow Corporation Counsel (WI State Bar #1016697)

PCR:rgh

Dept. of Commerce, Bureau of Storage Tank Regulation pc:

## DEPARTMENT OF NATURAL RESOURCES BRRTS TRACKING FORM 1/99 53156-968-63 PMN: 1 6 2011 UID: FID: 13-28-228585 Programs: LUST ERP VP\_\_\_\_\_\_GP\_\_\_\_ Notification Date 8-27-99County J 24 RP letter Date <u>10-25-99</u> Closure Date \_\_\_\_\_ Municipality Sulficano Palmyra Reported by: Legal Desc: \_\_\_\_1/4 \_\_\_1/4 s\_\_\_\_ t\_\_\_N r\_\_\_E/W Lat: \_\_\_\_º \_\_\_\_' Long. \_\_\_\_º \_\_\_\_' \_\_\_\_" Phone: \_\_\_\_\_ Priority Factors Funding \_\_Free Product HIGH \_\_Surface Water Impact \_\_\_\_LTF MED EF LOW \_\_Expanding plume \_\_Bedrock contamination \_\_\_\_OTHER\_ UNK \_\_Private/Potable well Impacts RESPONSIBLE PARTY Name \_\_\_\_\_ Cont. Private Well Cont. Public Well Company ( Groundwater Contamin. Soil Contamination Address \_ Surface Water Impacts Direct Contact Substances X Gasoline Pb Diesel Fuel Oil Waste Oil VOCs Unknown Ag Chem Leachate

Metals