Preferred Id: 17730

Interest Name: Charlie Brown Station

Address1: 335 Lowell Ave

City: Elk River

State: MN Zip: 55330

Phone: NO CORE PI PH.

Interest Remarks

Date and Time Printed: 10/28/2009 14:37:18

9/14/09: 4k diesel UST abandoned in place, contamination found. Site has registered T# 13906 which lists 1k kerosene UST, 12k, 6k, and 1k gas USTs, and a 1k diesel UST- all active. Also, 2- 4k diesel USTs and 12k and 6k gas USTs rem'd 11/97. Prev. L# 10983 was open 11/97 and closed 6/99. New release discovered, new L# assigned. Sandy soils, muni, depth to ge unknown, no staining or odors, 0.031 ppm benzene in soil. (KAF)

10/5/09 KAF: Rec'd call from Jeff Neisse at Carlson. They will be completing an exrep and submiting it. 10/22/09 KAF: Rec'd EXREP recommending closure from Carlson Prof. Services.

10/28/09 KAF: Review of Excavation Report from Carlson. The site is an active gas station. A 4k diesel UST was closed in place, as it was no longer being used. During the abandonment of the tank, no soil staining or petroleum odors were observed. One soil sample was collected from below each end of the tank- 2 samples were taken. The nearest surface water is the Mississippi River, which is 900' to the south. GW flow direction is assumed to be southerly, towards the river. The active tank system is located east of the now closed in place diesel UST. There are 4 active USTs and a diesel AST. Site is almost entirely covered by impervious surfaces- asphalt and concrete. Site is a closed leaksite- closed L# 10983. Sandy soils. GW is est at 25-30' bgs, based on previous investigations. High vapor hit of 2.2 ppm. Below lab detect for DRO, ethylbenzene, toluene, xylenes, and MTBE. Benzene was detected at 0.031 ppm and 0.030 ppm in the 2 soil bottom samples, just slightly above the lab reporting limit. Minimal contaminatin remains. There is a separation distance of 17-22' between the impacted area and gw. Agree with consultant to close site. (KAF)

10/28/09 ACM - site spatial data entered.

10/29/09 KAF: Sent out closure letter.

Department of Public Safety - Bureau of Criminal Apprehension 1430 Maryland Ave. East St. Paul, MN 55106

MINNESOTA DUTY OFFICER

1 V 5	Bureau of Criminal Apprehen	sion Operations Center		
Report #: 106186	Report Date: 9/14/200	9 Repo	ort Time: 14:58	DO #: 50
1 0	CALLER IN	FORMATION		
Contact: Jeff Miesse		Company: Carlson	n Professional Ser	rvices Inc - Lino Lake
Address: 248 Apollo Drive /	Suite 100			
City: Lino Lakes		State: MN Zip: 5	55014-	
Phone: (763) 489-7900	Ext:	Alt phone:	Ext	
Have local police and/or fire	e been notified?			
	NAR	RATIVE		
Caller reporting soil results	from tank that was abando	ned in place.	4.400	
T# 13906 - Charle			L=10983	11/97 + 2 lused 6/9
	1x, 6K, +1KgasusTs, +1K	ditsel AST-all acti	ve open	11/97 + 2 lused 6/9
2-4K diesel ustereni	11/97			*
2-4K diesel Wolston	-11/97			
12 K+6K gas usis re	no 17 17			
	INCIDENT F	REPORT: TANI	K	
RESPONSIBLE PARTY	/PROPERTY OWNER	s	ITE LOCATION	<u>a</u>
Name:		Name: Charlie Bro	wn Station	
Company: Ken Beaudry		Address: 335 Low	ell Avenue	
Address: 630 Proctor Ave N	W	City: ELK RIVER		
City: Elk River	State MN Zip 55330-	County SHERBU	RNE	Zip: 55330-
Phone: (763) 218-3607	Ext			
Alt. phone:	Ext		ENTERED	SEP 15 MAR
	SITE INFO	ORMATION		
Discovery date: 9/14/2009	Discovery time:	Previously reported	site? YES	Leak #: 10983
Is E85 on site? No	DEI EACE II	JEODMATION		
Number/Size of Tank(s)	Tank Contents	NFORMATION Age of Tank(s)		Type of Tank
1 @ 4000	diesel	unk	υ	.S.T Steel
Native soil type: sand		Surface water ne	arby2 No	
Source of Release: UST Fa	acility		ource: Municipal	
Contaminated soil excavate			to dig out conta	mination2
Ground water encountered		n to ground water:	_	milation.
Free product found? No	Stained soils			odors? No
Highest vapor reading:	An	alytical results:03		<u> </u>
		1		
If not tank related, specify F	Release Source and Product	Type:		
MPCA Project Manager:	XAF	Look Normalism	#1773N	

Method of Contact: County: Time: Agency: Out: Link: Date: In: Fax 15:07 MPCA Metro **V** 9/14/2009 Narrative:

October 29, 2009

Mr. Ken Beaudry 630 Proctor Avenue NW Elk River, MN 55330

RE: Petroleum Tank Release Site File Closure

Site: Charlie Brown Station, 335 Lowell Avenue, Elk River, Sherburne County, 55330

Site ID#: LEAK00017730

Dear Mr. Beaudry:

We are pleased to let you know that the Minnesota Pollution Control Agency (MPCA) staff has determined that your investigation and/or cleanup has adequately addressed the petroleum tank release at the site listed above. Based on the information provided, the MPCA staff has closed the release site file.

Closure of the file means that the MPCA staff does not require any additional investigation and/or cleanup work at this time or in the foreseeable future. Please be aware that file closure does not necessarily mean that all petroleum contamination has been removed from this site. However, the MPCA staff has concluded that any remaining contamination, if present, does not appear to pose a threat to public health or the environment under current conditions.

The MPCA reserves the right to reopen this file and to require additional investigation and/or cleanup work if new information, changing regulatory requirements or changed land use make additional work necessary. If you or other parties discover additional contamination (either petroleum or nonpetroleum) that was not previously reported to the MPCA, Minnesota law requires that the MPCA be immediately notified.

You should understand that this letter does not release any party from liability for the petroleum contamination under Minn. Stat. ch. 115C (2002) or any other applicable state or federal law. In addition, this letter does not release any party from liability for nonpetroleum contamination, if present, under Minn. Stat. ch. 115B (2002), the Minnesota Superfund Law.

Please note that as a result of performing the requested work you may be eligible to apply to the Petroleum Tank Release Compensation Fund (Petrofund) for partial reimbursement of the costs you have incurred in investigating and cleaning up this petroleum tank release. The Petrofund is administered by the Petroleum Tank Release Compensation Board (Petro Board) and the Minnesota Department of Commerce. To learn more about who is eligible for reimbursement, the type of work that is eligible for reimbursement, and the amount of reimbursement available, please contact Petrofund staff at 651-297-1119 or 1-800-638-0418.

Mr. Ken Beaudry Page 2 October 29, 2009

If future development of this property or the surrounding area is planned, it should be assumed that petroleum contamination may still be present. If petroleum contamination is encountered during future development work, the MPCA staff should be notified immediately.

For specific information regarding petroleum contamination that may remain at this leak site, please call the Petroleum Remediation Program File Request Program at 651-757-2799 or 651-757-2309. The MPCA fact sheet *Request to Bill for Services Performed* must be completed prior to arranging a time for file review.

Thank you for your response to this petroleum tank release and for your cooperation with the MPCA to protect public health and the environment. If you have any questions regarding this letter, please call me at 651-757-2374.

Sincerely,

Kate Funk

Project Manager

Petroleum and Closed Landfill Section

Remediation Division

KF:tf

cc:

Tina Allard, City Clerk, Elk River Bruce West, Fire Chief, Elk River

David Lucas, Sherburne County Solid Waste Officer

Jeff Neisse, Carlson Professional Services, Inc., Lino Lakes

Minnesota Department of Commerce Petrofund Staff

September 18, 2009

Mr. Ken Beaudry 630 Proctor Ave. NW Elk River, MN 55330

RE:

Storage Tank Release Investigation and Corrective Action

Site: Charlie Brown Station, 335 Lowell Ave., Elk River, Sherburne County 55330

Site ID#: LEAK 17730

Dear Mr. Beaudry:

Notice of Release

The Minnesota Pollution Control Agency (MPCA) has been informed that a release has occurred or contamination has been encountered from storage tanks and/or storage tank facilities that you own and/or operate. The MPCA appreciates your timely notification so this site can be handled in an efficient manner.

Legal Obligations

State laws require that persons legally responsible for storage tank releases notify the MPCA of the release and/or discovery of contamination, investigate and, if necessary, clean up the release(s) and/or contamination. A person is considered legally responsible for a petroleum tank release if the person owned or operated the tank either during or after the release, unless specifically exempted under the law. See Minn. Stat. § 115C.021 (2008). For releases of other substances, a person is considered legally responsible if the substance discharged was under the control of the person at the time of the discharge or release. If you believe that you are not legally responsible for this storage tank release, please contact the project manager listed below.

If development of this property or the surrounding area is planned, State laws require that persons properly manage contaminated soil and/or water uncovered or disturbed even if they are not legally responsible for the storage tank release(s). Developers and other interested parties must also incorporate appropriate response actions to prevent the further spreading of contamination. To receive MPCA review and approval of proposed response actions, please contact the Petroleum Brownfields Program (PBP), http://www.pca.state.mn.us/programs/vpic. If petroleum contamination is encountered during development work, the Minnesota State Duty Office should be notified immediately.

Request to Take Corrective Action

The MPCA requests that you take steps to investigate and, if necessary, clean up the release(s)/contamination in accordance with MPCA guidance documents. The site investigation must fully define the extent and magnitude of the soil and/or groundwater contamination caused by the release(s)/contamination. Unless your site is considered "high priority" (see below), you must submit a report to the MPCA which details the results of the investigation or concludes that excavation was sufficient to clean up the release, within 10 months of the date of this letter. The MPCA reserves the right to reject proposed corrective actions if the requirements of the site investigation have not been fulfilled. Guidance documents and related information are located at the following web site: http://www.pca.state.mn.us/programs/lust_p.html. For sites contaminated by pollutants other than petroleum, contact the MPCA project manager listed below to discuss the investigation and reporting timeline that will be required for your site.

The MPCA considers certain site conditions as high priority, including sites with "free product" (free-floating petroleum) that have affected or that threaten to affect drinking water supplies, sites where pollutants are being released to surface waters such as lakes or wetlands, and sites where petroleum or other vapors have been detected within structures or that pose fire or explosion hazards. If one or more of these situations apply to your site, you must submit an Investigation Report Form (refer to guidance documents) to the MPCA within 90 days. The MPCA reserves the right to reject proposed corrective actions if the requirements of the site investigation have not been fulfilled. In addition, if you know or discover that there is free product in a well, excavation, or borehole, you must notify the MPCA immediately of such a release and as rapidly and thoroughly as possible begin interim free product recovery (refer to guidance documents). If you have any question as to whether your site is high priority, please contact the MPCA project manager listed below.

Mr. Ken Beaudry Page 2

Please review your insurance plan and contact your insurance carrier immediately after receiving this letter. Your insurance may cover this release. However, your insurance coverage may be affected by how quickly you notify your carrier.

Reimbursement for petroleum sites:

In 1987, the legislature established the Petroleum Tank Release Compensation Fund (Petrofund) to reimburse some responsible persons and volunteers (i.e., property owners not responsible for releases) who take corrective action for a portion of their costs. The Petrofund is administered by the Petroleum Tank Release Compensation Board (Petro Board), which is part of the Minnesota Department of Commerce. To learn more about the Petrofund reimbursement program contact Petrofund staff at 651/215-1775 or 1/800-638-0418 (in greater Minnesota only), or review the information available at the following website, http://www.pca.state.mn.us/programs/lust_p.html. Please be aware that Petrofund reimbursement determinations are made by Petrofund staff at the Department of Commerce. The determinations are based on whether or not the work performed at a leaksite was necessary for investigation and corrective action, which is determined by MPCA staff, and whether or not the costs for that work were reasonable, which is determined by Petrofund staff.

If you have not already done so, the MPCA recommends that you hire a qualified environmental consulting firm to help you investigate and clean up the contamination on your site. A qualified consulting firm should have experience in performing investigations of contaminated sites and in developing and implementing corrective actions. For petroleum investigations, the consultant must be registered with the Petro Board if you wish to have your costs considered for reimbursement. A list of registered contractors is available from the Petrofund staff. Please note that, under the Petro Board's rules, (see Minn. R. ch. 2890), you must solicit a minimum of two written competitive consultant proposals on a form prescribed by the Petro Board to incur costs eligible for reimbursement, and a minimum of two written competitive contractor bids must also be obtained for each contractor service. Again, the MPCA strongly encourages you to contact Petrofund staff for answers to all of your questions about bidding and the other Petrofund reimbursement program requirements.

Required Response

Please provide notification to the MPCA by submitting the enclosed Leaksite Ownership Form to the MPCA project manager listed below. The Leaksite Ownership Form must be completed and submitted within 30 days of your receipt of this letter to indicate whether you intend to proceed with the requested investigation and/or corrective action. If you do not respond within this time frame, the MPCA will assume that you do not intend to comply. In this case, the MPCA Commissioner may issue an enforceable order that will require you, as responsible party, to take corrective action. Failure to cooperate with the MPCA in a timely manner may result in reduced reimbursement from the Petro Board, see Minn. R. ch. 2890. If you do not cooperate, the MPCA has the option of taking the corrective actions on your behalf and recovering its costs from you.

If you have any questions concerning this letter or need additional information, please contact me at 651-757-2374. Please reference the above LEAK # in all correspondence. If you are calling long distance, you may reach the MPCA by calling 1-800/657-3864.

Sincerely,

Kate Funk

Project Manager

Petroleum and Closed Landfill Section

Remediation Division

KAF:ls Enclosures

Tina Allard, City Clerk, Elk River Bruce West, Fire Chief, Elk River

David Lucas, Sherburne County Solid Waste Officer

Jeff Niesse, Carlson Professional Services, Lino Lakes



October 20, 2009



Ms. Kate Funk Minnesota Pollution Control Agency 520 Lafayette Road North St. Paul, MN 55155-4194

Re: Charlie Brown Station 335 Lowell Avenue Elk River, MN 55330 Leak No.: 17730

Dear Kate,

Please find enclosed the Minnesota Pollution Control Agency (MPCA) General Excavation Report Worksheet (Guidance Document 3-02) for the diesel fuel leak at the above mentioned site located in Elk River, Minnesota.

The attached report summarizes the sampling activities conducted at the Site. The release was notified to the Minnesota State Duty Officer subsequent to review of laboratory analytical data. Carlson is recommending site closure.

If you have any questions please feel free to contact me at (763)-489-7908 or jneisse@carlsonpsi.com.

Sincerely,

Carlson Professional Services, Inc.

Jeff Neisse

Staff Hydrogeologist



General Excavation Report Worksheet

Guidance Document 3-02

Complete the worksheet below to document excavation and treatment of petroleum contaminated soil removed **prior to** a Site Investigation and/or during tank removals and/or upgrades. If soil is excavated as an MPCA-approved corrective action **after** a Site Investigation is conducted, complete Guidance Document 3-02a Corrective Action Excavation Report Worksheet. Conduct excavations in accordance with Guidance Document 3-01 Excavation of Petroleum Contaminated Soil. Please type or print clearly. Do not revise or delete text or questions from this report form.

The excavation worksheet 3-02 deadline is 10 months from the date of receipt of the MPCA "Petroleum Storage Tank Release Investigation and Corrective Action" letter. MPCA staff may establish a shorter deadline for high priority sites.

PART I: BACKGROUND

A. Site:

MPCA Site ID#: LEAK00017730

Street: 335 Lowell Avenue City, Zip: Elk River, 55330

County: Sherburne

C. Excavating Contractor: Dean's Tank

Contact: **Dean Nething** Telephone: 763-535-0194

Tank Contractor Certification Number: 475

B. Tank Owner/Operator: Mr. Ken Beaudry

Mailing Address:

630 Proctor Avenue NW

Street/Box:

City, Zip: Elk River 55330 Telephone: 763.218-3607

D. Consultant: Carlson Professional Services,

Inc.

Contact: Jeff Neisse

Street/Box: 248 Apollo Drive City, Zip: Lino Lakes 55014 Telephone: 763-489-7900

- E. Others on-site during site work (e.g., fire marshal, local officials, MPCA staff, etc.): Jeff Smith, Elk River Fire Department; Denny Anderson, City of Elk River
- F. Site Location Information: Attach Guidance Document 1-03a Spatial Data Reporting Form if it has not already been submitted or will not be submitted as part of Guidance Document 4-06 Investigation Report Form.

General Excavation Report Worksheet Page 2

Note: If person other than tank owner and/or operator is conducting the cleanup, provide name, address, and relationship to site on a separate attached sheet.

PART II: DATES

- A. Date release reported to MPCA: September 14, 2009
- B. Dates site work performed (tanks removed, piping removed, soil excavation, soil borings, etc.):

Work Performed

Date

Carlson Professional Services, Inc. (Carlson), and Dean's Tank, Inc. (Dean's) were on-site for the in-place abandonment of a 4,000-gallon diesel underground storage tank (UST). The UST was abandoned as it was no longer being used. During abandonment of the UST, Carlson personnel did not observe petroleum odors or staining in the soil surrounding the UST. Carslon personnel collected one soil sample below each end of the UST (2 samples total) that were submitted to Environmental Science Corp. (ESC) for laboratory analysis. A total of two (2) soil samples were collected for field screening. Soil sampling followed MPCA procedures (Guidance Document 3.01 – Excavation of Petroleum Contaminated Soil).

September 1, 2009

Subsequent to receipt of laboratory analytical, low level benzene detections were found. Carlson notified the Minnesota State Duty Officer of the petroleum release.

September 14, 2009

PART III: SITE AND RELEASE INFORMATION

A. Describe the land use and pertinent geographic features within 1,000 feet of the site. (i.e. residential property, industrial, wetlands, etc.)

The Site currently operates as a retail petroleum service station. The Site is bordered by Highway 10 to the north, followed by commercial property. To the east, the Site is bordered by Lowell Avenue, followed by industrial property (ISD 728). To the West, the site is bordered by an alley, followed by industrial property. To the south, the Site is bordered by commercial property. The nearest surface water is the Mississippi River, located over 900 feet to the south. The regional groundwater flow direction is assumed to be southerly, towards the Mississippi River. The site is accessed from the north and east (Highway 10) and from the east (Lowell Avenue).

B. Provide the following information for all tanks removed and any remaining at the site:

Table 1.

Tank#	Tank ** Material	UST or AST	Capacity (gallons)	Contents (product type)	Year installed	Tank Status*	Condition of Tank
1	Steel	UST	12,000	Gasoline	5/01/1968	Removed	Unknown
2	Steel	UST	6,000	Gasoline	5/01/1968	Removed	Unknown
3	Steel	UST	4,000	Diesel	5/01/1968	Removed	Good
5	Steel	UST	1,000	Kerosene	9/01/1985	Active	Unknown
6	Steel	UST	12,000	Gasoline	12/06/1997	Active	Unknown
7	Steel	UST	6,000	Diesel	12/08/1997	Active	Unknown
9	Steel	UST	1,000	Gasoline	9/01/1985	Active	Unknown
11	Steel	UST	4,000	Diesel	11/28/1997 Closed in- place		Good
12	Steel	AST	1,000	Diesel	6/28/2006	Active	Good

*Indicate: removed (date), abandoned in place (date), or currently used, upgraded tank, installation of new tank. ** F for fiberglass or S for Steel Notes: Piping Material (check all that apply): Steel, Fiberglass, Flexible Plastic C. Describe the location and status of the other components of the tank system(s) (i.e., transfer locations, valves, piping and dispensers) for those tanks listed above. The active tank system components are located east of the abandoned UST, adjacent to the northeast and east sides of the Site building. There are reportedly four active USTs and one AST in this area. There are two dispensers located east of the building and one located off the northeast corner of the building. D. Identify and describe the source(s) or suspected source(s) of the release or contamination encountered, and how the release or contamination was discovered. The source of the release is suspected to be a result of spills, overfills or leakage over the life of the UST, or possibly due to cross-contamination introduced during the abandonment process. The release was discovered upon review of analytical report. Check all that apply: Piping, Tank, Dispenser, Pump/Turbine, Spill/Overfill E. Identify the cause of the release (tank and/or piping). Check all that apply:
Corrosion,
Loose Component,
Puncture, Mechanical or Physical Damage, 🛛 Unknown

F. Identify the method the release was detected.

Page	4
Į.l	Check all that apply: Removal, Line Leak Detection, Tank Leak Detection, Visual/Olfactory, Site Assessment, Other Laboratory analysis.
	dentify any surface soil contamination. Surface soil contamination was not observed. The Site is covered almost entirely by impervious surfaces (asphalt and/or concrete).
Н.	What was the volume of the release? (if known): Unknown gallons
I. H	listoric contamination present (unknown origin?). Yes, No The Site is a closed Leak Site (LEAK #10983 Beaudry Oil).
J. V	When did the release occur? (if known): Unknown
K. :	Describe source of on-site drinking water. Municipal
L.]	Has the site ever, at any point had an E-85 tank? Yes, No
	RT IV: EXCAVATION INFORMATION Dimensions of excavation(s): Length 9 ft Width 6 ft Depth 3.5 ft
В.	Original tank backfill material (sand, gravel, etc.), if applicable: Fine to medium sand
C.	Native soil type (clay, sand, etc.): Sand
D.	Quantity of contaminated soil removed for treatment (cubic yards): NA (Indicate on the site map where the petroleum contaminated soil was excavated)
	How many cubic yards of the removed soil was petroleum saturated? NA (Indicate on the site map where the petroleum saturated soil was excavated)
	[Note: If the volume removed is more than allowed in Guidance Document 3-01 Excavation of Petroleum Contaminated Soil, please document MPCA staff approval.]
E.	Were new tanks and/or piping and dispensers installed? (yes/no) If yes, what volume of contaminated soil was excavated to accommodate the installation of the new tanks and piping?
	NA
F.	If contaminated soil was removed to accommodate the installation of new tanks and/or piping, show your calculations for the amount of soil removal allowed using Table 3 in Guidance Document 3-01 Excavation of Petroleum Contaminated Soil.
	NA
G.	Was ground water encountered or a suspected perched water layer or was there evidence of a seasonally high ground water table (i.e. mottling)? (yes/no) At what depth? No

General Excavation Report Worksheet

General	Excavation	Report	Workshee
Page 5			

- H. If ground water was not encountered during the excavation, what is the expected depth of ground water? Based on previous investigations at the Site, groundwater is anticipated to exist at depths of 25-30 feet below ground surface.
- I. Additional investigation to determine the need for a Limited Site Investigation is necessary at sites with sandy or silty sandy soil, a water table within 25 feet of the ground surface, and visual or other evidence of soil remaining contamination. See Table 2 in Guidance Document 3-01 Excavation of Petroleum Contaminated Soil. If a soil boring is necessary, describe the soil screening and analytical results. Attach the boring logs and laboratory results to this report.
- J. If no soil boring was performed, explain.

The benzene detections that were reported in the soil samples collected below the UST were extremely low-level and just above the laboratory reporting limit. The Site is paved entirely with impervious surfaces and therefore the risk for vertical migration at the Site appears minimal. As stated above, the Site is also a closed Leak site. Consequently a soil boring was not advanced.

K. If ground water was encountered or if a soil boring was conducted, was there evidence of ground water contamination? (yes/no) Describe this evidence of contamination, e.g., free product (specify thickness), product sheen, ground water in contact with petroleum contaminated soil, water analytical results, etc. **Note**: If you observe free product, contact MPCA staff immediately, as outlined in Guidance Document 2-02 *Free Product: Evaluation and Recovery*.

L.	Was bedrock encountered in the excavation? (☐yes/ ☒no) At what depth?
M.	Were other unique conditions associated with this site? (yes/ no) If so, explain.

PART V: SAMPLING INFORMATION

A. Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil:

Soil samples were collected in accordance with the procedures described in the MPCA Guidance Document 4.04 - "Soil Sample Collection and Analysis Procedures". Field screening activities were conducted on-site. Soil samples were collected from the tank excavation basin bottom and sidewalls and placed in plastic zip lock bags. For each sample, a new plastic zip lock bag was half filled with soil and immediately sealed. The bag was shaken for approximately 15 seconds. The sample was then stored for a minimum of ten (10) minutes in an atmosphere of at least 700 F. After vapor headspace development, the bag was shaken for another 15 seconds. The bag was then punctured with the photoionization detector (PID) probe and the highest meter result within a time period of five seconds after insertion was then recorded for each sample. Analysis was completed with a MiniRAE PID equipped with 10.6 eV lamp. The PID was calibrated on-site with compressed isobutylene gas to read parts-permillion volume/volume of benzene vapors.

B. List soil vapor headspace analysis results collected during excavation of tanks, lines and dispensers, valves, and transfer locations. (i.e., soils left in place when excavation is complete). Code the samples with sampling depths in parentheses as follows: sidewall samples S-1 (8 feet), S-2 (4 feet), etc.; bottom samples B-1 (13 feet), B-2 (14 feet), removed soil R-1 (4 feet), R-1 (8 feet), etc.; stockpile samples SP-1, etc; line samples L-1, L2, etc.; transfer locations T-1 (4 feet), T-1 (8 feet), etc.; dispensers D-1 (4 feet), etc. Be sure the sample codes correspond with the site map in part VI, below.

Sample	Soil	Reading	Sample	Soil	Reading ppm
Code	Type	ppm	Code	Type	
N-BS	Sand	2.2	S-BS	Sand	1.9

- C. Was the "removed soil" placed back into the excavation basin? (yes/ no) If no, please complete Part VIII: Soil Treatment Information section. If yes, a Limited Site Investigation is necessary (see Guidance Document 4-01 Soil and Ground Water Assessments Performed during Site Investigations).
- D. Briefly describe the soil analytical sampling and handling procedures used:

Soil samples were collected through holes drilled through the bottom of the UST prior to abandonment and submitted for laboratory analysis. The collected soil samples were submitted to ESC for laboratory analysis of benzene, toluene, ethylbenzene and xylenes (BTEX), methyl-tert butyl ether (MTBE) and diesel range organics (DRO). The soil sampling locations are visually depicted on Figure 2, attached. Laboratory analytical reports are attached as Appendix B.

E. List below all soil sample analytical results from bottom and side wall samples collected after excavation of tanks, lines and dispensers, valves, and transfer locations (i.e., soils left in place when excavation is complete). Code the samples with sampling depths in parentheses as follows: sidewall samples S-1 (8 feet), S-2 (4 feet), etc.; bottom samples B-1 (13 feet), B-2 (14 feet), removed soil R-1 (4 feet), R-1 (8 feet), etc.; stockpile samples SP-1, etc; line samples L-1, L2, etc.; transfer locations T-1 (4 feet), T-1 (8 feet), etc.; dispensers D-1 (4 feet), etc.; Be sure the sample codes correspond to the site map required in part VI.

Sample Code	DRO	Benzene mg/kg	Ethyl- benzene mg/kg	Toluene mg/kg	Xylenes mg/kg (total)	MTBE mg/kg	Lead mg/kg
N-BS	<9.6	0.031	<0.030	<0.30	<0.091	<0.061	NA
S-BS	<9.4	0.030	<0.029	<0.29	<0.087	<0.058	NA
Tier 1	NE	6	200	107	45	NE	
SRV Tier 1 SLV	NE	0.034	4.7	6.4	45	0.027	

<u>Note</u>: Attach copies of laboratory reports and chain of custody forms.

PART VI: FIGURES

Attach the following figures to this report:

- 1. Site location map.
- 2. Site map(s) drawn to scale illustrating the following:
 - a. Location of all present and former tanks, piping, and dispensers;
 - b. Location of surface soil contamination
 - c. Location of other structures (buildings, canopies, etc.);
 - d. Adjacent city, township, or county roadways;
 - e. Dimensions of excavation(s), including contour lines (maximum 2-foot contour intervals) to represent the depths of the final excavation(s);
 - f. Location of soil screening samples (e.g. R-1), soil analytical samples (e.g., S-1 or B-1), and any soil borings (e.g., SB-1). Also, attach all boring logs.

g. North arrow, bar scale and map legend.

h. Provide location of any on-site water wells. If on-site water wells exist, please provide well logs and/or construction diagrams.

i. Locations of new tanks, piping and dispensers, if installed.

PART VII: CONCLUSIONS AND RECOMMENDATIONS

TART VIII CONCECSIONS IE IS	122001
Recommendation for site:	⊠site closure
	additional investigation

Justify the recommendations for the site. If no further action is necessary, the MPCA staff will review this report following notification of soil treatment.

Carlson is recommending Site closure. Subsequent to review of the laboratory analytical report a release was reported to the Minnesota State Duty Officer. Laboratory analysis of the collected soil samples from the tank basin bottom indicated a very low level benzene detection in both of the samples analyzed.

During the in-place abandonment of the 4,000-gallon diesel UST, holes were drilled through the bottom of the UST to provide access to the underlying soils. This procedure may have introduced low level petroleum into the sample. Petroleum impacts, such as visual staining, petroleum odors, and elevated PID responses did not indicate petroleum contamination from the collected tank basin soil samples. In addition, there is a moderate separation distance of 17 to 22 feet between the reported impacts and the apparent ground water level. The Site and adjacent properties appear to be predominantly developed and/or paved. This would appear to minimize the risk for vertical infiltration to the underlying resource aquifer. Based on this information, the detected petroleum constituents do not appear to pose a significant threat for vertical and/or horizontal petroleum contamination migration. Moreover, all sample constituents analyzed were reported to be below laboratory detection limits and also below all applicable SRV's and SLV's.

The nearest surface water is the Mississippi River, which is located over 900 feet to the south. The Site and surrounding properties are primarily commercial and/or industrial in use and are connected to the municipal water supply. Therefore, risks associated with the petroleum impacts appear minimal.

PART VIII: SOIL TREATMENT INFORMATION

- A. Soil treatment method used (thermal, land application, composting, other). If you choose "other" specify treatment method: **NA**
- B. Location of treatment site/facility: NA
- C. Date MPCA approved soil treatment (if thermal treatment was used, indicate date that the MPCA-permitted thermal treatment facility agreed to accept soil): **NA**
- D. Identify the location of stockpiled contaminated soil: NA

CONSULTANT (OR OTHER) PREPARING THIS REPORT **PART IX:**

By signing this document, I/we acknowledge that we are submitting this document on behalf of and as agents of the responsible person or volunteer for this leak site. I/we acknowledge that if information in this document is inaccurate or incomplete, it will delay the completion of remediation and may harm the environment and may result in reduction of reimbursement awards. In addition, I/we acknowledge on behalf of the responsible person or volunteer for this leak site that if this document is determined to contain a false material statement, representation, or certification, or if it omits material information, the responsible person or volunteer may be found to be in violation of Minn. Stat. § 115.075 (1994) or Minn. 7000.0300 (Duty of Candor), and that the responsible person or volunteer may be liable for civil penalties.

MPCA staff are instructed to reject unsigned excavation reports or if the report form has been altered.

Name and Title:

Jeff Neisse Staff Geologist Barb Ryan, P. G. Senior Geologist

Company and mailing address:

Signature:

Date signed:

10/20/09

Carlson Professional Services, Inc.

248 Apollo Drive, Suite 100 Lino Lakes, MN 55014

Telephone

763.489.7900

Fax: 763.489.7959

If additional investigation is not necessary, please mail this form and all necessary attachments to the MPCA project manager. If additional investigation is necessary, include this form as an appendix to Guidance Document 4-06 Investigation Report Form. MPCA staff will not review excavation reports indicating a limited site investigation is necessary unless the limited site investigation has been completed.

Webp	ages	and	phone	numbers
------	------	-----	-------	---------

MPCA staff

http://pca.state.mn.us/pca/staff/index.cfm

MPCA toll free

1-800-657-3864

Petroleum Remediation Program web page

http://www.pca.state.mn.us/programs/lust_p.html

MPCA Infor. Request

http://www.pca.state.mn.us/about/inforequest.html

MPCA Petroleum Brownfields Program

http://www.pca.state.mn.us/programs/vpic_p.html

PetroFund Web Page

http://www.state.mn.us/cgi-bin/portal/mn/jsp/content.do?id=-

536981377 Pragoncy Commerce

PetroFund Phone

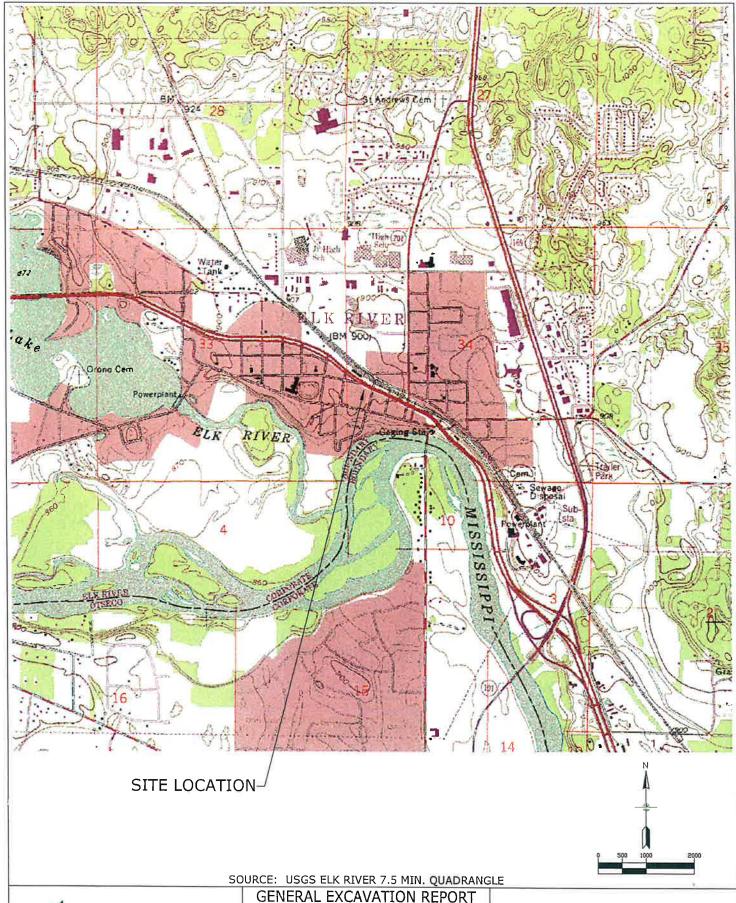
651-297-1119, or 1-800-638-0418

State Duty Officer

651-649-5451 or 1-800-422-0798

Upon request, this document can be made available in other formats, including Braille, large print and audio tape. TTY users call 651/282-5332 or 1-800-657-3864 (voice/TTY).

Printed on recycled paper containing at least 10 percent fibers from paper recycled by consumers.

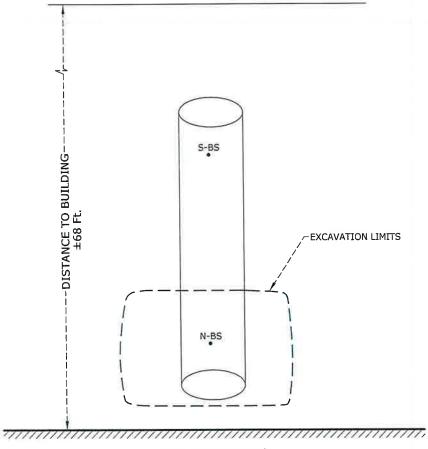




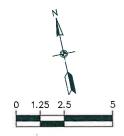
GENERAL EXCAVATION REPORT
Charlie Brown Station
335 Lowell Avenue
Elk River, MN 55330
Carlson Project No.: 2641-00
Leak # 17730

FIGURE 1 SITE LOCATION MAP

HIGHWAY NO. 10



EXISTING BUILDING





GENERAL EXCAVATION REPORT
Charlie Brown Station
335 Lowell Avenue
Elk River, MN 55330
Carlson Project No.: 2641-00
Leak # 17730

FIGURE 2 SITE MAP





Petroleum Remediation Program

Minnesota Pollution Control Agency

http://www.pca.state.mn.us/programs/lust_p.html

Spatial Data Reporting Form

Guidance Document 1-03a (For complete instructions, see Guidance Document 1-03.)

Part 1. Background

Has a site location data point been submitted for this site (circle/highlight)? YES or NO If yes, you do not need to complete Part 2 of this form but should complete Part 3 if there are additional site features to report. This form can be submitted electronically if desired (e.g., as an e-mail attachment to the project manager).

MPCA Site ID: LEAK00000017730
Site Name: Charlie Brown Station
Data Collection Date: October 15, 2009

Name of Person Who Collected Data: Jeff Neisse

Organization Name: Carlson Professional Services, Inc.

Organization Type: Environmental Consultant

Part 2. Site Location (use one of the three spatial data reporting formats provided)

Point Description: Former UST Basin

Collection Method: Google Earth

Datum (circle/highlight): WGS84 NAD83

1) Longitude (dd mm ss.ss): **5,016,967.13 N** Latitude (dd mm ss.ss): **455,273.86**E

2) Longitude (dd.dddddd): Latitude (dd.dddddd):

3) UTM - X (Easting): UTM - Y (Northing):

UTM Zone:

Part 3. Other Site Features

2) Longitude (dd.ddddd):

3) UTM - X (Easting):

UTM Zone:

Point Description: Collection Method: Datum (circle/highlight): WGS84 NAD83 1) Longitude (dd mm ss.ss): Latitude (dd mm ss.ss): Latitude (dd.dddddd): 2) Longitude (dd.ddddd): 3) UTM - X (Easting): UTM - Y (Northing): UTM Zone: Point Description: Collection Method: Datum (circle/highlight): WGS84 NAD83 1) Longitude (dd mm ss.ss): Latitude (dd mm ss.ss): 2) Longitude (dd.dddddd): Latitude (dd.dddddd): UTM - Y (Northing): 3) UTM - X (Easting): UTM Zone: Point Description: Collection Method: Datum (circle/highlight): WGS84 <u>NAD83</u> 1) Longitude (dd mm ss.ss): Latitude (dd mm ss.ss): 2) Longitude (dd.ddddd): Latitude (dd.dddddd): 3) UTM - X (Easting): UTM - Y (Northing): UTM Zone: Point Description: Collection Method: Datum (circle/highlight): WGS84 NAD83 1) Longitude (dd mm ss.ss): Latitude (dd mm ss.ss):

> Guidance Document c-prp1-03a: April 2005 Petroleum Remediation Program

> > Minnesota Pollution Control Agency

Latitude (dd.dddddd):

UTM - Y (Northing):

Point Description:

Collection Method:

Datum (circle/highlight): WGS84 NAD83

1) Longitude (dd mm ss.ss):

Latitude (dd mm ss.ss):

2) Longitude (dd.ddddd):

Latitude (dd.dddddd):

3) UTM - X (Easting):

UTM - Y (Northing):

UTM Zone:



Tax I.D. 62-0814289

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Jeff Neisse Carlson Professional Services, Inc. 248 Apollo Dr: Suite 100

Lino Lakes, MN 55014

Report Summary

Monday September 14, 2009

Report Number: L420342 Samples Received: 09/02/09 Client Project:

Description: Charlie Brown

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to calt.

Entire Report Reviewed By: John Howkins, HSC Representative

Entire Report Reviewed By:

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140 NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from Environmental Science Corp. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

> 2 Samples Reported: 09/09/09 16:26 Revised: 09/14/09 10:06 Page 1 of 6



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REPORT OF ANALYSIS

September 14,2009

Jeff Neisse Carlson Professional Services 248 Apollo Dr: Suite 100 Lino Lakes, MN 55014

ESC Sample # : L420342-01

Date Received : September 02, Description : Charlie Brown

September 02, 2009

Site ID :

Sample ID

: N-BS 8FT

Project # 😨

Collected By Bob Ryan Collection Date: 09/01/09 11:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	83.7		윰	2540G	09/04/09	1
PVOCGRO						
Benzene	0.031	0.030	mg/kg	8021	09/05/09	51
Toluene	U	0.30	mg/kg	8021	09/05/09	51
Ethylbenzene	Ū	0.030	mg/kg	8021	09/05/09	51
m&p-Xylene	Ŭ	0.061	mg/kg	8021	09/05/09	51
o-Xylene	U	0.030	mg/kg	8021	09/05/09	51
Methyl tert-butyl ether	U	0.061	mg/kg	8021	09/05/09	51
Surrogate recovery-%						
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	09/05/09	51
TPH (GC/FID) High Fraction Surrogate recovery(%)	BDL	9.6	mg/kg	DROWM/8015M	09/08/09	1
Triacontane	113.		% Rec.	DROWM/8015M	09/08/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:
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REPORT OF ANALYSIS

September 14,2009

Jeff Neisse Carlson Professional Services 248 Apollo Dr: Suite 100 Lino Lakes, MN 55014

ESC Sample # : L420342-02

Date Received : September 02, 2009

Site ID :

Description : Charlie Brown

S-BS 8FT

Project # :

Sample ID

Collected By : Bob Ryan Collection Date : 09/01/09 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.0		96	2540G	09/04/09	1
PVOCGRO						
Benzene	0.030	0.029	mg/kg	8021	09/05/09	49.5
Toluene	U	0.29	mg/kg	8021	09/05/09	49.5
Ethylbenzene	U	0.029	mg/kg	8021	09/05/09	49.5
m&p-Xylene	U	0.058	mg/kg	8021	09/05/09	49.5
o-Xylene	U	0.029	mg/kg	8021	09/05/09	49.5
Methyl tert-butyl ether	U	0.058	mg/kg	8021	09/05/09	49.5
Surrogate recovery-%			5. 5			
a,a,a-Trifluorotoluene(PID)	101.		% Rec	8021	09/05/09	49.5
TPH (GC/FID) High Fraction Surrogate recovery(%)	BDL	9.4	mg/kg	DROWM/8015M	09/08/09	1
Triacontane	109.		% Rec.	DROWM/8015M	09/08/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:
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Page 3 of 6

Summary of Remarks For Samples Printed 09/14/09 at 10:06:58

TSR Signing Reports: 341 R5 - Desired TAT

Sample: L420342-01 Account: PROSOUMMN Received: 09/02/09 09:00 Due Date: 09/10/09 00:00 RPT Date: 09/09/09 16:26 Sample: L420342-02 Account: PROSOUMMN Received: 09/02/09 09:00 Due Date: 09/10/09 00:00 RPT Date: 09/09/09 16:26



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Carlson Professional Services, Inc.

Jeff Neisse 248 Apollo Dr: Suite 100

Lino Lakes, MN 55014

Quality Assurance Report Level II

L420342

September 14, 2009

nalyte	Result		boratory Bl nits	ank % Rec		Limit	Batcl	+פת ו	e Analyz
maryte	Result	U:	HITCR	7 REC		DINTE	Balti	ı Dat	Miaryz
otal Solids	< .1	8					WG439	346 09/	04/09 10
enzene	< .0005	i m	g/kg				WG439	9600 09/	05/09 09
thylbenzene	< .0005	i m	g/kg						05/09 09
&p-Xylene	< .001		g/kg						05/09 09
ethyl tert-butyl ether	< .001		g/kg						05/09 09
-Xylene	< .0005		g/kg						05/09 09
oluene	< .005		g/kg						05/09 09
,a,a-Trifluorotoluene(PID)		%	Rec.	101.7		80-120	WG43	9600 09/	05/09 09
PH (GC/FID) High Fraction	< 4	ים	pm				WG439	9631 09/	08/09 22
riacontane			Rec.	103.2		50-150			08/09 22
			Duplicate	:					
malyte	Units	Result	Duplio	ate	RPD	Limit	Ref	Samp	Batch
otal Solids	8	89.5	89.4		0.102	5	L42	0373-04	WG439
		Labora	tory Contro	1 Sampl	е				
malyte	Units	Known	Val	Resu	lt	% Rec	Limi	t	Batch
Cotal Solids	8	50		50.0		100.	85-1	15	WG439
enzene	mg/kg	. 405		0.04	50	90.0	76-1	13	WG439
thylbenzene	mg/kg	.05		0.04	49	89.8	78-1	15	WG439
&p-Xylene	mg/kg	.1		0.09	29	92.9	81-1	20	WG439
Methyl tert-butyl ether	mg/kg	.05		0.04	42	88.3	37-1	45	WG439
o-Xylene	mg/kg	.05		0.04	54	90.7	79-1	15	WG439
Coluene	mg/kg	.05		0.04	45	89.1	76-1	14	WG439
,a,a-Trifluorotoluene(PID)						100.7	80-1	20	WG439
TPH (GC/FID) High Fraction	mg/kg	40		31.4		78.5	70-1	20	WG439
Triacontane						119.6	50-1	50	WG439
own acceptance.			Control Sam		licate				
malyte	Units	Result	Ref	*Rec		Limit	RPD	Limit	Batch
enzene	mg/kg	0.0423	0.0450	85.0		76-113	6.28	20	WG439
thylbenzene	mg/kg	0.0447	0.0449	89.0		78-115	0.571	20	WG439
n&p-Xylene	mg/kg	0.0944	0.0929	94.0		81-120	1.62	20	WG439
Methyl tert-butyl ether	mg/kg	0.0433	0.0442	87.0		37-145	2.00	24	WG439
-Xylene	mg/kg	0.0455	0.0454	91.0		79-115	0.309	20	WG439
Coluene	mg/kg	0.0463	0.0445	93.0		76-114	3.83	20	WG439
(,a,a-Trifluorotoluene(PID)				101.1		80-120			WG439
TPH (GC/FID) High Fraction	mg/kg	31.7	31.4	79.0		70-120	0.910	20	WG439
Triacontane				126.8		50-150	C 01		WG439
Draluto.	IIn i = -		Matrix Spi)		9- Da -	T 22.25 H	n - 5		Det -1
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref	samp	Batch
Benzene	mg/kg	2.08	0.0260	.05	80.6	32-137		342-01	WG439
Sthylbenzene	mg/kg	1.96	0.00	.05	77 • 0	10-150		342-01	WG439
<pre>%p-Xylene * Performance of this Analyte</pre>	mg/kg	4.02	0.00	. 1	78.9	14-143	L L420	342-01	WG439



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Lino Lakes, MN 55014

Quality Assurance Report Level II

L420342

September 14, 2009

			Matrix S	pike					
Analyte	Units	MS Res	Ref Re	s TV	% Rec	Limit		Ref Samp	Batch
Methyl tert-butyl ether	mg/kg	2.00	0.00	.05	78.3	24-151		L420342-01	WG4396
o-Xylene	mg/kg	1.99	0.00	.05	78.0	10-157		L420342-01	WG4396
Toluene	mg/kg	2.01	0.00	.05	78.8	20-142		L420342-01	WG4396
a,a,a-Trifluorotoluene(PID)		540.451			100.4	80-120			WG4396
		Mat	rix Spike	Duplicate					
Analyte	Units	MSD	Ref	*Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	1.98	2.08	76.6	32-137	5.12	39	L420342-01	WG4396
Ethylbenzene	mg/kg	1.44	1.96	56.3	10-150	31.0	44	L420342-01	WG4396
m&p-Xylene	mg/kg	2.88	4.02	56.6	14-141	33.0	44	L420342-01	WG4396
Methyl tert-butyl ether	mg/kg	2.02	2.00	79.4	24-151	1.37	37	L420342-01	WG4396
o-Xylene	mg/kg	1.52	1.99	59.6	10-157	26.8	44	L420342-01	WG4396
Toluene	mg/kg	1.72	2.01	67.6	20-142	15.3	42	L420342-01	WG4396
a,a,a-Trifluorotoluene(PID)	5. 5			100.2	80-120				WG4396

Batch number /Run number / Sample number cross reference

WG439346: R888908: L420342-01 02 WG439600: R890648: L420342-01 02 WG439631: R893288: L420342-01 02

 $[\]star$ * Calculations are performed prior to rounding of reported values $% \left(1\right) =\left(1\right) \left(1$

^{*} Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Carlson Professional Services, Inc. Jeff Neisse 248 Apollo Dr: Suite 100

Lino Lakes, MN 55014

Quality Assurance Report Level II

L420342

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 14, 2009

Time of the Condition: OT - Other Samples returned vie: Dec Signature) Dec Signature) Dec Signature) OT - Other OTHERONA Samples returned vie: OTHERONA Science of 12065 Lebrano Att July The Condition: OT - Other Ot	any Name/Address:	Alt	Alternate billing information:	information:			Analysi	Analysis/Container/Preservative	reservative	Dranarad by:	Chain of Custody Page of
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ults Needed: No	<u> </u>	200	City/Sate Collected	SYN		0	034			Phone (6	15) 758-5858
ults Needed: NoYes	Client Project #: ES	ES	C Key:	1						FAX (6	15) 758:5859
Ints Needed: No. <	Site/Facility ID#: P.O.#:	P.O	#			10/					
No_Yes	<u></u> %	Jotified		Date Result	s Needed:	1	w,			CoCode	(lab use only)
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01-Other	*	Dept	£	Date	1	375			E .	emarks/Contaminant	Sample # (lab only)
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Chromatograms



Mon Sep 07 15:24:58 2009

PDF Generated On: 09/07/2009 -- By: Elisha Morris

PV14H16I.M

0904 23.D

Page 2

123

```
Signal #2 : C:\MSDCHEM\1\DATA\090409\0904 24.D\ELC2B.CH
              : 05 Sep 2009 10:02 am
                                                               Operator: 241
                : L420342-02 49.5x WG439600 PVOCGRO
                                                               Inst
                                                                       : VOCGC14
                                                               Multiplr: 49.50
     Misc
                : soil SURIS09G21880
     IntFile Signal #1: EVENTS.E
                                     IntFile Signal #2: EVENTS2.E
     Quant Time: Sep 7 15:25 2009 Quant Results File: PV14H16I.RES
     Quant Method : C:\MSDCHEM\1\METHODS\PV14H16I.M (Chemstation Integrator)
     Title
                   : WIS GRO VOCGC14
     Last Update : Mon Aug 17 09:17:57 2009
     Response via : Multiple Level Calibration
     DataAcq Meth : BTEX7.M
     Volume Inj.
     Signal #1 Phase :
                                             Signal #2 Phase:
     Signal #1 Info
                                             Signal #2 Info :
                                       Signal: 0904_24 D\FID1A.CH
   Response_
    1.4e+07
    1.2e+07
     1e+07
    8000000
    6000000
    4000000
    2000000
   Time
             1.00
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    1.5e+07
     1e+07
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                                                                        13.00
                                                                             14.00
0904 24.D
            PV14H16I.M
                             Mon Sep 07 15:37:15 2009
                                                              123
                                                                                 Page 2
```

Data File : C:\MSDCHEM\1\DATA\090809\0908_67.D Vial: 45 Operator: 287 Acq On : 08 Sep 2009 11:09 pm : L420342-01 1x WG439631 25.65-1 9/04/09 Sample Inst : SVGC17 : soil sur09I08755/spk09H02592 Multiplr: 0.04 Misc : events.e Quant Time: Sep 9 9:09 2009 Quant Results File: WM17I07I.RES Quant Method: C:\MSDCHEM\1\METHODS\WM17I07I.M (Chemstation Integrator) Title Last Update : Tue Sep 08 10:57:46 2009 Response via : Multiple Level Calibration DataAcq Meth : WISCON03.M Volume Inj. Signal Phase : Signal Info : Response_ Signal: 0908 67.D\FID1A.CH 2.8e+07 2.6e+07 2.4e+07 2.2e+07 2e+07 1.8e+07 1.6e+07 1.4e+07 1.2e+07 1e+07 8000000 6000000 4000000 2000000 0 -2000000

Time

0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00

Quantitation Report (QT Reviewed) Data File : C:\MSDCHEM\1\DATA\090809\0908 68.D Vial: 46 : 08 Sep 2009 11:23 pm Operator: 287 Sample : L420342-02 1x WG439631 28.41-1 9/04/09 Inst : SVGC17 Misc : soil sur09I08755/spk09H02592 Multiplr: 0.04 IntFile : events.e Quant Time: Sep 9 9:09 2009 Quant Results File: WM17I07I.RES Quant Method : C:\MSDCHEM\1\METHODS\WM17I07I.M (Chemstation Integrator) Title Last Update : Tue Sep 08 10:57:46 2009 Response via : Multiple Level Calibration DataAcq Meth : WISCON03.M Volume Inj. : Signal Phase : Signal Info : Signal: 0908_68.D\FID1A.CH Response_ 2.8e+07 2.6e+07 2.4e+07 2.2e+07 2e+07 1.8e+07 1.6e+07 1.4e+07 1.2e+07 1e+07 8000000 6000000 4000000 2000000 0 -2000000

Time

0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00