

January 17, 2023

Wisconsin Department of Natural Resources
Bureau for Remediation and Redevelopment
Attn: Alice Egan
1027 W. St. Paul Avenue
Milwaukee, WI 53233

RE: SITE STATUS UPDATE – MILLIS TRANSFER – 3001 W HOLY HILL ROAD, RICHFIELD, WI

Dear Ms. Egan:

Cedar Corporation (Cedar) is providing this site status update for Millis Transfer located at 3001 W Holy Hill Road, Richfield, Wisconsin (Site), reference Figure 1 – Site Location Map, attached).

Background:

On June 3, 2022, a 15,000-gallon diesel underground storage tank (UST) and associated piping was closed by removal. A total of 12 Tank System Site Assessment (TSSA) soil samples were collected following tank and piping removal. Base samples were not obtained from the tank cavity, as groundwater was encountered at approximately 13 feet below ground surface (ft bgs). Soil samples were submitted to Eurofins Analytical Laboratory in Chicago, Illinois for laboratory analysis of petroleum volatile organic compounds (PVOCs) and naphthalene. The TSSA report is included in Attachment A.

Of the 12 samples, two (2) samples, S-1 and S-12 (located at the western end of the tank cavity, closest to the associate piping and main dispenser), detected total trimethylbenzenes exceeding the Wisconsin Administrative Code (WAC) ch. NR 720 Soil to Groundwater Pathway Residual Contaminant Levels (RCLs), reference Table 1 - Soil Analytical Table and Attachment D – Laboratory Analytical Reports, attached.

Based on the analytical results from the TSSA sampling, Cedar recommended additional groundwater sampling to determine if the onsite groundwater has been impacted.

Monitoring Well Installation:

On October 28, 2022, On-Site Environmental of Sun Prairie, Wisconsin installed a 1” polyvinyl chloride (PVC) ch. NR 141 compliant monitoring well (MW-1) using dual-tube Geoprobe drilling techniques. The monitoring well was installed in the vicinity of S-1 and S-12, to a depth of 20 feet below ground surface (ft bgs), with a 10-foot screen, and riser to the surface, reference Figure 2 – Detailed Site Map, attached. The well was completed with a steel flushmount protective cover. At the time of drilling the ground surface was sand and gravel backfill from tank removal activities. The area was paved with asphalt in November 2022, and the integrity of the well and protective cover was maintained, reference Attachment C – Photo Log, attached.

Well Development and Sampling (November):

On November 2, 2022, Cedar developed the well using a peristaltic pump. Approximately 16 gallons of water was purged from the well to rid it of any sediment. All purge water was containerized in a steel 55-gallon drum staged at the Site.

Groundwater Sampling and Analytical Results:

On November 2, 2022, following well development activities, a groundwater sample was collected from MW-1, using a peristaltic pump, and submitted for laboratory analysis of PVOCs and naphthalene, reference Attachment B – Field Forms, attached.

In addition to sampling the newly installed monitoring well, the onsite private water supply well (PW-1) was also sampled. A faucet was turned on inside the facility and ran for approximately 10 minutes. A water sample was collected from the pressure tank and submitted for laboratory analysis of PVOCs and naphthalene, reference Attachment B – Field Forms, attached.

Analytical results identified the concentration of benzene exceeding the applicable WAC ch. NR 140 Preventive Action Limit (PAL) of 0.5 ug/L at MW-1. There were no other exceedances identified at MW-1 or PW-1, reference Table 2 – Groundwater Analytical Table and Attachment D – Laboratory Analytical Reports, attached.

As the concentration of benzene only marginally exceeded the PAL, at 0.53 ug/L, a second sampling round at MW-1 was recommended. On December 2, 2022, Cedar purged and sampled MW-1 using a peristaltic pump. Approximately 15 gallons of water was purged from the well to rid it of any sediment. All purge water was containerized in a steel 55-gallon drum staged at the Site. A sample was collected from the well and submitted for laboratory analysis of PVOCs and naphthalene, reference Attachment B – Field Forms, attached. Analytical results from this sampling event did not identify any WAC ch. NR 140 exceedances, reference Table 2 – Groundwater Analytical Table and Attachment D – Laboratory Analytical Reports, attached.

Conclusions:

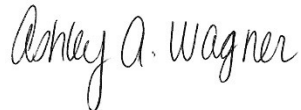
The conclusions of the investigative and remedial activities are listed below.

- Tank
 - The 15,000-gallon diesel tank and associated piping was removed from the site on June 3, 2022.
 - The tank cavity was backfilled with sand and gravel fill.
 - The area was paved with asphalt in November 2022.
- Soils
 - TSSA soil sample results identified total trimethylbenzenes WAC ch. NR 720 Soil to Groundwater Pathway RCL exceedances in two samples, S-1 (3 ft bgs), and S-12 (12 ft bgs).
- Groundwater
 - A monitoring well, MW-1, was installed in the former tank cavity, near S-1 and S-12 to a depth of approximately 20 ft bgs on October 28, 2022.
 - MW-1 was developed and sampled on November 2, 2022.
 - Benzene was detected exceeding the applicable WAC ch. NR 140 PAL.
 - A sample was collected from the onsite potable well (PW-1) on November 2, 2022.
 - There were no WAC ch. NR 140 exceedances.
 - MW-1 was re-sampled on December 2, 2022.
 - There were no WAC ch. NR 140 exceedances.

Recommendations:

Based on the review of environmental conditions completed through the course of the tank removal and investigation activities, the Site has been investigated to the extent reasonable. Low-levels of total trimethylbenzenes were detected in two adjacent samples on the western wall of the former tank cavity and beneath the associated piping, and remain onsite. Confirmation groundwater sampling did not identify any WAC ch. NR 140 exceedances. Cedar recommends that the Site be issued “No Action Required” by the WDNR as the source of the contamination (UST) was successfully removed from the Site, and the residual soil impacts are not impacting the onsite groundwater.

Sincerely,



Ashley Wagner, P.G.,
Professional Geologist



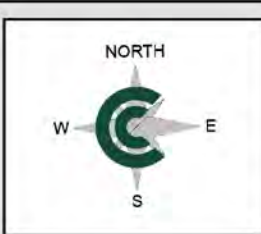
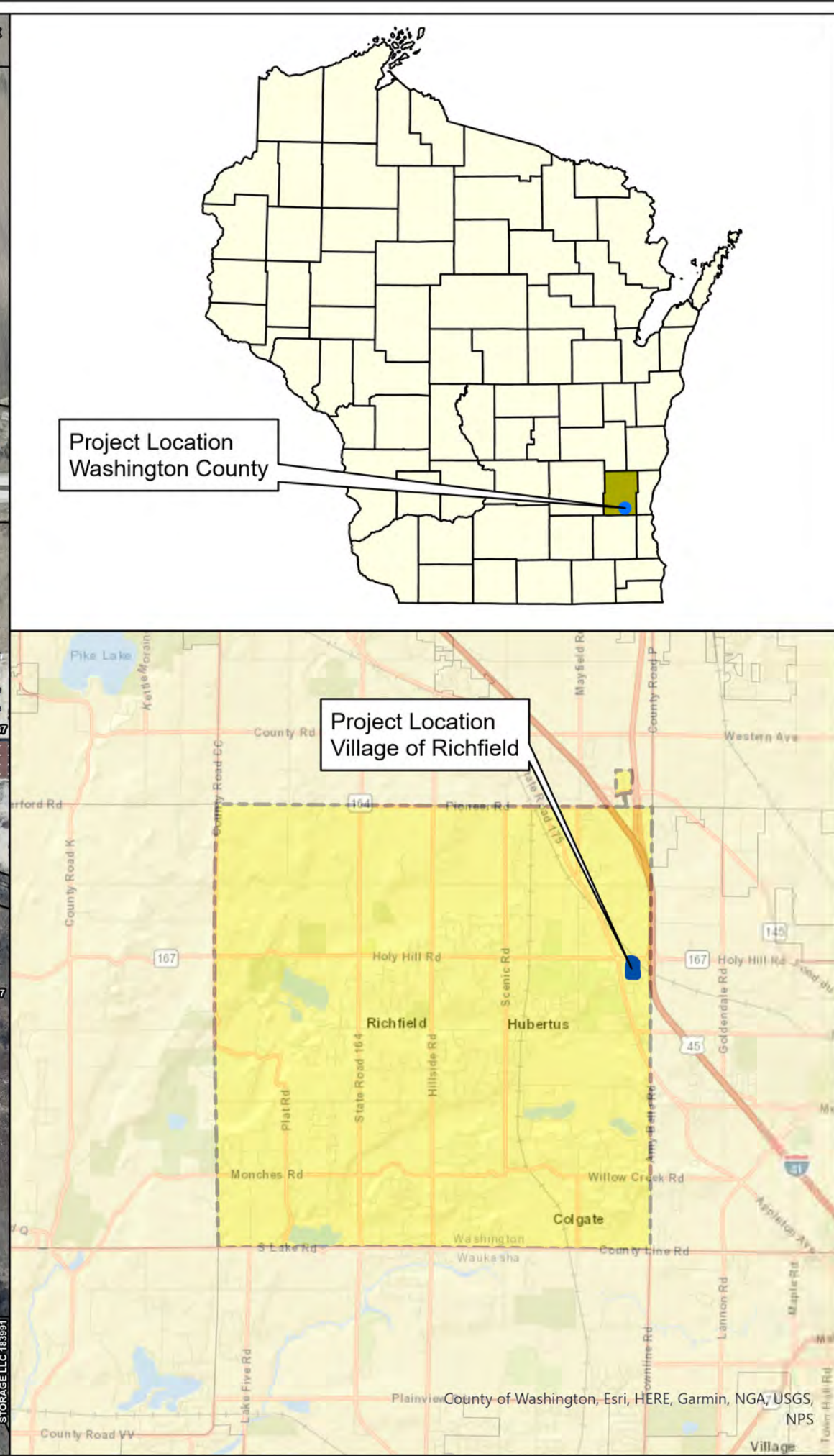
Dan O'Connell, P.G., C.P.G.,
Environmental Manager

Attachments: Figure 1 – Site Location Map
Figure 2 – Detailed Site Map
Table 1 – Soil Analytical Table
Table 2 – Groundwater Analytical Table
Attachment A – TSSA Report
Attachment B – Field Forms
Attachment C – Photo Log
Attachment D – Laboratory Analytical Reports

Figure(s)

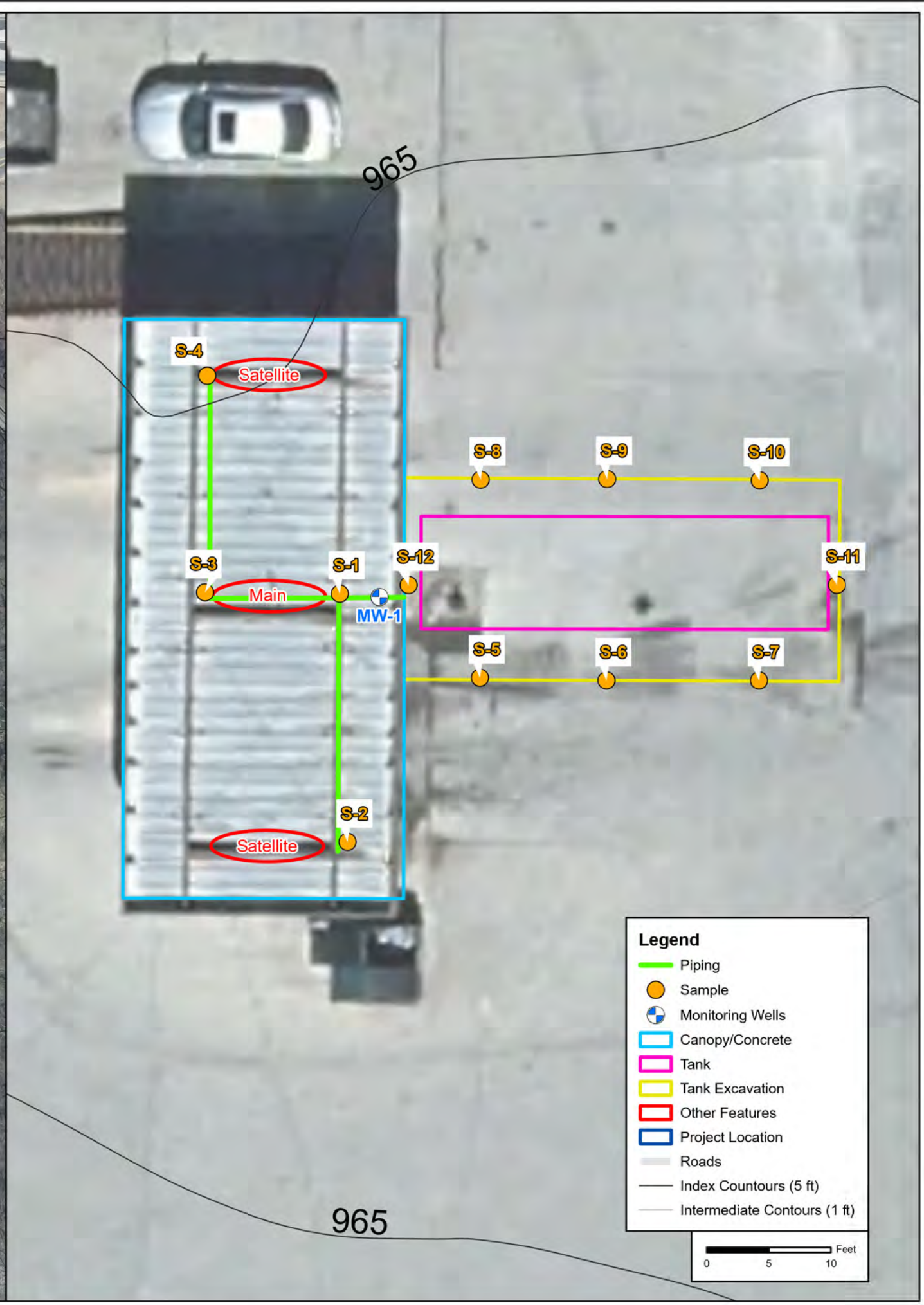
Figure 1 – Site Location Map

Figure 2 – Detailed Site Map

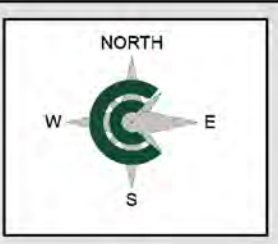
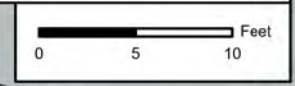


Location Map
Millis Transfer
 3001 W HOLY HILL ROAD
 VILLAGE OF RICHFIELD
 WASHINGTON COUNTY, WISCONSIN

JOB NO.	M6838
DATE	12/19/2022
FIGURE	Fig. 1



- Legend**
- Piping
 - Sample
 - ⊕ Monitoring Wells
 - Canopy/Concrete
 - Tank
 - Tank Excavation
 - Other Features
 - Project Location
 - Roads
 - Index Countours (5 ft)
 - Intermediate Contours (1 ft)



Detailed Site Map
Millis Transfer
 3001 W HOLY HILL ROAD
 VILLAGE OF RICHFIELD
 WASHINGTON COUNTY, WISCONSIN

JOB NO.
M6838

DATE
12/20/2022

FIGURE
Fig. 2

Tables

Table 1 – Soil Analytical Table

Table 2 – Groundwater Analytical Table

Table 1
Soil Analytical Results
Millis Transfer - Richfield
3001 W Holy Hill Road
Richfield, WI

Analyte	Units	Groundwater Pathway RCL	Non-Industrial Direct Contact RCL	Industrial Direct Contact RCL	Background Threshold Value	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12					
					Date	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	
					Depth (ft bgs)	3	3	3	3	12	12	12	12	12	12	12	12	12	12	12	12	12
					PID (ppmv)	130.4	0.7	0.2	0.2	0.4	0.3	0.2	0.4	0.5	1.0	1.4	171.1					
Volatile Organic Compounds (VOCs)																						
1,2,4-Trimethylbenzene ¹	µg/kg	1,378.71	219,000	219,000	--	5,700	<21.0	<21.0	<21.0	<21.0	<21.0	<21.0	<21.0	<22.0	<21.0	<22.0	9,400					
1,3,5-Trimethylbenzene ¹	µg/kg	1,378.71	182,000	182,000	--	2,500	<22.0	<22.0	<22.0	<22.0	<22.0	<22.0	<22.0	<23.0	<23.0	<23.0	3,100					
Benzene	µg/kg	5.1	1,600	7,070	--	<17.0	<8.5	<8.6	<8.6	<8.6	<8.4	<8.6	<8.5	<8.9	<8.7	<8.8	<8.6					
Ethylbenzene	µg/kg	1,570	8,020	35,400	--	670	<11.0	<11.0	<11.0	<11.0	<11.0	<11.0	<11.0	<11.0	<11.0	<11.0	1,100					
Methyl-tert-butyl ether	µg/kg	27.0	63,800	282,000	--	<45.0	<23.0	<23.0	<23.0	<23.0	<23.0	<23.0	<23.0	<24.0	<24.0	<24.0	<23.0					
Naphthalene	µg/kg	658.2	5,520	24,100	--	<38.0	<19.0	<20.0	<20.0	<20.0	<19.0	<20.0	<19.0	<20.0	<20.0	<20.0	<20.0					
Toluene	µg/kg	1,107.2	818,000	818,000	--	<17.0	<8.5	<8.6	<8.6	<8.7	<8.5	<8.6	<8.5	<8.9	<8.8	<8.9	12.0 J					
Total Xylene	µg/kg	3,960	260,000	260,000	--	3,300	<13.0	<13.0	<13.0	<13.0	<13.0	<13.0	<13.0	<13.0	<13.0	<13.0	3,100					

Notes:

* = Exceedance was observed but analytical result is below Background Threshold Value (BTV)

100

Exceedance of the NR 720 RCL for Soil-to-Groundwater Pathway

100

Exceedance of the NR 720 RCL for Non-Industrial Direct Contact

100

Exceedance of the NR 720 RCL for Industrial Direct Contact

PID = Photoionization Detector

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

ppmv = parts per million per volume

ft bgs= feet below ground surface

RCL = Residual Contaminant Level

< = analyte not detected above laboratories limit of detection

J = Analyte detected at concentrations between the limit of detection and the limit of quantification

B = Compound was found in the blank sample

NA = Not analyzed

-- = Not established

** = Not exceeded per ch. NR 720.07(2)(c) If a soil cleanup standard for a soil contaminant is between the limit of detection and the limit of quantitation, the soil cleanup standard shall be considered to be exceeded if the soil contaminant concentration is reported at or above the limit of quantitation.

¹ = Soil to Groundwater Pathway RCLs are for 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene combined.

² = Soil to Groundwater Pathway RCLs are for cis-1,2-Dichloropropene and trans-1,3-Dichloropropene combined

³ = Soil to Groundwater Pathway RCLs are for m, p and o xylenes combined (total xylenes)

Table 2
Groundwater Analytical Results
Millis Transfer - Richfield
3001 W Holy Hill Road
Richfield, WI

Parameter	Units	ch. NR 140 ES	ch. NR 140 PAL	MW-1		PW-1
				11/02/2022	12/02/2022	11/02/2022
Volatile Organic Compounds (VOCs)						
1,2,4-Trimethylbenzene ¹	ug/L	480	96	2.4	3.2	<0.36
1,3,5-Trimethylbenzene ¹	ug/L	480	96	0.82 J	0.97 J	<0.25
Benzene	ug/L	5.0	0.5	0.53	0.26 J	<0.15
Ethylbenzene	ug/L	700	140	1.7	2.9	<0.18
Methyl-tert-butyl ether	ug/L	60	12	<0.39	<0.39	0.70 J
Naphthalene	ug/L	100	10	<0.34	0.44 J	<0.34
Toluene	ug/L	800	160	0.59	0.65	<0.15
Xylenes (total) ²	ug/L	2,000	400	7.2	8.2	<0.22

Notes:

-- = No Established Standard

Bold/Red = Concentration exceeds NR 140 Enforcement Standard

Bold/Blue = Concentration exceeds NR 140 Preventive Action Limit

ug/L = Micrograms per liter

mg/L = Milligrams per liter

NA = Not analyzed

J = Reported value was between the limit of detection and the limit of quantitation.

** = Not exceeded per ch. NR 140.14(3)(c) If the preventive action limit or enforcement standard is between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or enforcement standard to be attained or exceeded if the concentration of a substance is reported at or above the limit of quantitation.

¹ = ES and PAL levels are for 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene combined

² = ES and PAL levels are for m, p and o xylenes combined (total xylenes)

³ = ES and PAL are Public Welfare (ch. NR 140 Table 2) Standards



Appendices

Attachment A – TSSA Report



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 P.O. Box 7837, Madison, WI 53707-7837
 (608) 224-4942

Wis. Admin. Code §ATCP 93.560

FOR OFFICE USE ONLY

TANK SYSTEM SERVICE AND CLOSURE ASSESSMENT REPORT

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m) Wis. Stats.).

Complete One Form for Each System Service Event

FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE 'N/A' BOX

CHECK ONE: UNDERGROUND ABOVEGROUND

Part A - To be completed by contractor performing repair or closure

A. TYPE OF SERVICE CLOSURE REPAIR/UPGRADE CHANGE-IN-SERVICE

Indicate portion of system being serviced if a repair, upgrade or change-in-service is being performed

Remote fill Tank Piping Transition/containment sump Spill bucket Dispenser

B. IDENTIFICATION

OWNER INFORMATION

OWNER NAME MILLIS TRANSFER INC	CONTACT NAME CRAIG SCHMIDT	TITLE
MAILING ADDRESS P.O. BOX 550	<input type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE BLACK RIVER FALLS	STATE ZIP WI 54615
TELEPHONE: (715) 299 - 2319	E-MAIL	

SITE INFORMATION

FACILITY NAME MILLIS TRANSFER INC		
SITE ADDRESS (Not PO Box) 3001 STATE RD 167 W	<input type="checkbox"/> CITY <input type="checkbox"/> TOWN <input checked="" type="checkbox"/> VILLAGE RICHFIELD	STATE ZIP WI 53076

SERVICE CONTRACTOR INFORMATION

PRIMARY SERVICE CONTRACTOR Section A Above ADVANCED TANK SERVICE, INC	SERVICE CONTRACTOR CERT ID # 507193	TELEPHONE: (715) 831 - 8484	CELL: (715) 579 - 8324
STREET ADDRESS P.O. BOX 1072	<input type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE EAU CLAIRE	STATE ZIP WI 54702	

C. TANK SYSTEM DETAIL (Complete for all service activities)

a	b	c	d	e	f	g	h	
Tank ID #	Type of Closure ¹	Tank Material of Construction	Piping Material of Construction	Tank Capacity (gallons)	Contents ²	Release - System Integrity Compromised (e.g. holes, cracks, loose connection,	If "Yes" to "g", Then Specify Source and Cause of Release ³	
							Source of Release ³	Cause of Release ⁴
113523	P	STEEL	FRP	15000	DL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		

- Indicate type of closure: P = Permanent, TOS = Temporarily Out-of-Service, CIP = Closure In-Place
- Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, PX = Premix, WO = Waste/Used Motor Oil, FCHZW = Flammable/Combustible Hazardous Waste, OC = Other Chemical (indicate the chemical name(s):
- CAS number(s):
- Source of release: T = tank, P = piping, D = dispenser, STP = submersible turbine pump, DP = delivery problem, O = other, UNK = Unknown
- Cause of release:
S = spill, O = overflow, POMD = physical or mechanical damage, C = corrosion, IP = installation problem, O = other, UNK = Unknown
- Has release been reported to the Department of Natural Resources? Yes No Release not evident at this time (pending sample analysis)

D. CLOSURES (Check applicable box at right in response to all statements in section D)

Written notification was provided to the local agent 5 days in advance of closure date. Yes No

All local permits were obtained before beginning closure. Yes No NA

UST Form TR-WM-137 or AST Form TR-WM-118 filed by owner with the DATCP indicating closure. Yes No NA

NOTE: TANK INVENTORY FORM TR-WM-137 or TR-WM-118 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE or CHANGE-IN-SERVICE CHECKLIST

D. CLOSURE BY REMOVAL OR IN-PLACE

1. General Requirements	Remover Verified	Inspector Verified	Inspector Not Present	NA
a. Product from piping drained into tank (or other container).	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Piping disconnected from tank and removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. All liquid and residue removed from tank using explosion-proof pumps or hand pumps prior to removing tank from excavation.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
d. All pump motors and suction hoses bonded to tank or otherwise grounded.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
e. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
f. Vent lines left connected until tanks purged.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
g. Tank openings temporarily plugged so vapors exit through vent.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
h. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section E.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Specific Closure-by-Removal Requirements				
a. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Tank cleaned before being removed from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. Tank labeled in full compliance with API 1604 after removal but before being moved from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; MONTH/DAY/YEAR OF REMOVAL

d. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. Site security is provided while the excavation is open.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

3. Specific Closure-In-Place Requirements

NOTE: CLOSURES IN-PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION (DATCP) OR LOCAL AGENT.

a. Tank properly cleaned to remove all sludge and residue.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Solid inert material (sand, cyclone boiler slag, or pea gravel recommended) introduced and tank filled.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. Vent line disconnected or removed.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
d. Inventory form filed by owner with DATCP indicating closure in-place.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

E. REPAIR, UPGRADE OR CHANGE-IN-SERVICE

Written notification was provided to the local agent 5 days in advance of service date. Y N NA

All local permits were obtained before beginning service. Y N NA

Form TR-WM-137 or 0 TR-WM-118 filed by owner with DATCP indicating change-in-service. Y N NA

F. METHOD OF VAPOR FREEING OF TANK

- Displacement of vapors by 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.
- Inert gas using dry ice or liquid carbon dioxide.
- Inert gas using CO2 or N2 **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. LEL METERS MAY NOT FUNCTION ACCURATELY. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.**
Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.
Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.
- Readings of 10% or less of the lower flammable range (LEL) or <5% oxygen obtained before removing tank from ground.
- Tank atmosphere monitored for flammable or combustible vapor levels prior to and during cleaning and cutting.
- Calibrate combustible gas indicator and/or oxygen meter prior to use. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank.

G. REMOVER/CLEANER INFORMATION

REMOVER/CLEANER NAME (PRINT): Sustin Peboorn REMOVER/CLEANER SIGNATURE: [Signature] CERTIFICATION #: 401548 DATE TANK REMOVED: 6-3-22

I attest that the procedures and information which I have provided as the tank closure contractor are correct and comply with ATCP 93.

Company expected to perform soil contamination assessment: cedar corp 401889

H. INSPECTOR INFORMATION

Jason Karczewski

INSPECTOR NAME (PRINT)

Jason Karczewski

INSPECTOR SIGNATURE

468444

INSPECTOR CERTIFICATION #

DATCP

LPO AGENCY/COMPANY NAME

6610 Richfield

FDID # FOR LOCATION WHERE INSPECTION PERFORMED

(262) 307-6440

INSPECTOR TELEPHONE NUMBER

6/3/22

DATE SIGNED

INSPECTOR NOTES:

Part B – To be completed by environmental professional - Submit original Part B to the WDNR along with a copy of Part A

I. TANK-SYSTEM SITE ASSESSMENT (TSSA)

SITE NAME - *Note: SITE NAME and address MUST MATCH with Part A Section 1.*

Millis Transfer LLC

SITE ADDRESS (Not PO Box) 3001 State HWY 167	<input checked="" type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE	STATE	ZIP
	Richfield	WI	53076

To determine if a TSSA is required, see ATCP 93 and section II part B of *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS*.

If a TSSA is required, then follow the procedures detailed in *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS*

1. Site Information

- a. Has there been a previously documented release at this site? Y N
If yes, provide the DATCP # _____ or DNR BRRT's # _____
- b. Number of active tanks at facility prior to completion of current services: USTs 1 ASTs 0
(NOTE 1: Do not include previously closed systems or system components.)
- c. Excavation/trench dimensions (in feet). (Photos must be provided.)

EXCAVATION/TRENCH #	LENGTH	WIDTH	DEPTH
Tank Bed	34	17	12
Piping	24	4	3

2. Visual Excavation/Trench Inspection (Photos must be provided for "Yes" responses, except item b.)

Do any of the following conditions exist in or about the excavation(s)?

- a. Stained soils: Yes No
- b. Petroleum odor: Yes No
- c. Water In excavation/trench: Yes No
- d. Free product in the excavation/trench: Yes No
- e. Sheen or free product on water: Yes No

3. Geology/Hydrogeology

- a. Depth to groundwater 13 feet
- b. Indicate type of geology² Silty sand

4. Receptors

- a. Water supply well(s) within 250 feet of the facility? Yes No If yes, specify: Potable well on site, specific location unknown
- b. Surface water(s) within 1000 feet of the facility? Yes No If yes, specify: _____

5. Sampling

- a. Follow the procedures detailed in *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS*.
- b. Complete Tables 1 and 2 as appropriate. (Attach chain-of-custody and laboratory analytical reports.)
- c. Attach a detailed map of site features and sample locations.

J. NOTE RELEVANT OBSERVATIONS, SPECIFIC PROBLEMS OR CONCERNS BELOW

Groundwater was encountered in the bottom of the excavation. No base samples were collected. Sidewall samples were collected approximately 12 feet below ground surface, just above the water table. Soil samples S-1 and S-12 had elevated PID readings. The western tank wall was approximately 8 feet from the master pump. Soil sample S-1 was collected approximately 3 feet below the master pump. Soil sample S-12 was collected from the west side wall at approximately 12 feet. Sample S-12 acts as a confirmation sample from beneath soil sample S-1. 1,2,4-Trimethylbenzene was detected in the trip blank at 32J micrograms per kilogram, the result was detected between the laboratory limit of detection and the limit of quantification.

TABLE 1 SOIL FIELD SCREENING & GRO/DRO LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	Sample Location & Soil/Geologic Description	Sample Collection Method				Depth Below Tank/Piping (feet)	Field Screening Result (ppm)	GRO (mg/kg)	DRO (mg/kg)
		Grab	Shelby Tube	Direct Push	Split Spoon				
S-1	East master piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	130.4		
S-2	South satellite piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	0.7		
S-3	West master piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	0.2		
S-4	North satellite piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	0.2		
S-5	Southwest wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.4		
S-6	South wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.3		
S-7	Southeast wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.2		
S-8	Northwest wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.4		
S-9	North wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.5		
S-10	Northeast wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	1.0		
S-11	East wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	1.4		
S-12	West wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	171.1		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

TABLE 2 SOIL LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	BENZENE	TOLUENE	ETHYLBENZENE	MTBE	TRIMETHYL - BENZENES (TOTAL)	XYLENES (TOTAL)	NAPHTHALENE
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
S-1	<17	<17	670	<45	8,200	3,300	<38
S-2	<8.5	<8.5	<11	<23	<22	<13	<19
S-3	<8.6	<8.6	<11	<23	<22	<13	<20
S-4	<8.6	<8.6	<11	<23	<22	<13	<20
S-5	<8.6	<8.7	<11	<23	<22	<13	<20
S-6	<8.4	<8.5	<11	<23	<22	<13	<19
S-7	<8.6	<8.6	<11	<23	<22	<13	<20
S-8	<8.5	<8.5	<11	<23	<22	<13	<19
S-9	<8.9	<8.9	<11	<24	<23	<13	<20
S-10	<8.7	<8.8	<11	<24	<23	<13	<20
S-11	<8.8	<8.9	<11	<24	<23	<13	<20
S-12	<8.6	12JB	1,100	<23	12,500	3,100	<20
Trip Blank	<7.3	<7.4	<9.2	<20	32J	<11	<17

K. TANK-SYSTEM SITE ASSESSMENT INFORMATION

- As a tank-system site assessor certified under Wis. Admin. Code section ATCP 93.240, it is my opinion that there is no indication of a release of a regulated substance to the environment.
- Sampling at the site indicates there has been a release to the environment. Pursuant to Wis. Admin. Code section ATCP 93.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter ATCP 93 shall immediately report any release of a regulated substance to the Wisconsin Department of Natural Resources. Failure to do so may result in forfeitures of a minimum of \$10 and a maximum of \$5000 for each violation under Wis. Stats. Section 168.26 (5). Each day of continued violation and each tank are treated as separate offenses.

Quin Lenz

TANK-SYSTEM SITE ASSESSOR NAME (PRINT):


TANK-SYSTEM SITE ASSESSOR SIGNATURE

494047

CERTIFICATION NO.

(920) 491 - 9081

TANK-SYSTEM SITE ASSESSOR TELEPHONE NUMBER

6/20/2022

DATE SIGNED

Cedar Corporation

COMPANY NAME



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 PO Box 7837 Madison, WI 53707-7837
 (608) 224-4942

FOR OFFICE USE ONLY

 Wis. Admin. Code §ATCP 93.140

UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZARDOUS LIQUID STORAGE TANK REGISTRATION

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m) Wis. Stats.).

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered.

A separate form is needed for each tank. Send each completed form to the agency designated above.

Have you previously registered this tank by submitting a form? Yes No If yes, are you correcting/updating information only? Yes No

This registration applies to a tank piping status that is (check one): Date of status change: 6/3/2022

In Use Abandoned with Water Abandoned with Product
 Newly Installed Closed - Removed Abandoned without Product (empty)
 Temporarily Out of Service - Provide Date: Closed - Filled with Inert Materials Change of Site/Facility Address Only (complete boxes 1.a. and b. below)
 Ownership Change (Indicate new owner name in box 2 - attach deed)

IDENTIFICATION (Please Print)

1. TANK SITE NAME: MILLIS TRANSFER INC COUNTY: WASHINGTON PHONE: () -
 a. CURRENT SITE STREET ADDRESS: 3001 STATE RD 167 W CITY: RICHFIELD STATE: WI ZIP: 53076
 b. PREVIOUS SITE STREET ADDRESS: CITY: TOWN OF: STATE: ZIP:

Fire Dept. providing fire coverage where tank is located: CITY TOWN VILLAGE of: RICHFIELD #6610

2. TANK OWNER LEGAL NAME: MILLIS TRANSFER INC COUNTY: JACKSON PHONE: Check CELL or LAND (715) 299 - 2319
 MAILING ADDRESS: P.O. BOX 550 CITY: BLACK RIVER FALLS STATE: WI ZIP: 54615

3. PROPERTY OWNER NAME (if different from Tank Owner Legal Name #2) COUNTY (if different from County #2)
 PROPERTY OWNER ADDRESS (if different from Site Street Address #1) CITY: TOWN OF: STATE: ZIP:

4. CLASS A NAME: DOB: CERTIFICATION: (Attach certificate)
 5. CLASS B NAME: DOB: CERTIFICATION: (Attach certificate)

SITE ID: FACILITY ID # 412663 CUSTOMER ID #

Tank Capacity (gallons): 15000 Tank Age (age or date installed): Vehicle fueling: Yes No

LAND OWNER TYPE (Refer to back; check one): County State Federal Leased Federal Owned Tribal Nation Municipal Other Government Private

OCCUPANCY TYPE (check one) Refer to back
 Retail Fuel Sales Mercantile/Commercial Bulk Storage Terminal Storage Industrial Residential School Government Fleet
 Agricultural (crop or livestock production) Utility Backup or Emergency Generator Other (specify):

TANK CONSTRUCTION:
 Bare Steel Coated Steel Steel - Fiberglass Reinforced Plastic Composite
 Fiberglass Unknown Other (specify): Lined (date):
 Overfill Protection? Yes No
 Spill Containment? Yes No
 Tank Double Walled? Yes No

TANK CATHODIC PROTECTION: Sacrificial Anodes Impressed Current N/A

TANK LEAK DETECTION METHOD: Automatic tank gauging Interstitial monitoring Electronic Yes No Statistical Inventory Reconciliation (SIR)
 Manual tank gauging (only for tanks of 1,000 gallons or less) Unknown

PIPING CONSTRUCTION: Single Wall Double Wall:
 Bare Steel Coated Steel Fiberglass Flexible Copper Unknown N/A Other:

PIPING CATHODIC PROTECTION: Sacrificial Anodes Impressed Current N/A

PRIMARY PIPING SYSTEM TYPE: Pressurized piping with A. Pump auto shutoff - ELLD B. Flow restrictor - MLLD Unknown
 Suction piping with check valve at tank Suction piping with check valve at pump and inspectable Not needed if waste oil

PIPING LEAK DETECTION METHOD: Interstitial monitoring Electronic Yes No Sump or cable sensor Yes No
 Tightness testing Electronic line monitor - ELLD SIR Not required Unknown

TANK CONTENTS Current, or previous product (if tank now empty) (* = NOT PECFA eligible) Leaded Unleaded Gas-ethanol blend: ___ % ethanol Diesel
 Bio-Diesel: ___ % Hazardous Waste/Interface* Kerosene Fuel Oil Premix New Oil New oil - Flash point less than 200°F
 Waste/Used Motor Oil Used for Heating Aviation Empty* Sand/Grave/Slurry* Unknown
 Other (specify): Chemical* Name: CAS#

Has a site assessment been completed? (see reverse side for details) Yes No

TANK OWNER LEGAL NAME (please print): Christopher Schwenke TANK OWNER E-MAIL:

TANK OWNER SIGNATURE (Note: By signing, signer is accepting legal and financial responsibility for the storage tank system.): DATE:

Note: Refer to comments on reverse side of form.



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 Storage Tank Regulation, PO Box 7837, Madison, WI 53707-7837
 Phone: (608) 224-4942

Wis. Admin. Code §ATCP 93.115
 §ATCP 93.350

ATCP 93 NOTIFICATION RECORD

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m), Wis. Stats.)

TO: *Darren Leone*

OFFICE LOCATION: *DATCP*

(Refer to https://datcp.wi.gov/Pages/Programs_Services/StorageTankContacts.aspx for a jurisdiction's authorized agent/department.)

Note: Only the notification form is required for non-flammable, non-combustible, hazardous liquid, or CERCLA tanks greater than or equal to 5,000 gallon capacity that are under the direct supervision of a qualified engineer. A plan review is not required. (ATCP 93.350(2)(b)).

LOCATION / IDENTIFICATION

SITE NAME <i>Millis Transfer Inc</i>		FACILITY NUMBER <i>412663</i>	FIRE DEPT. PROVIDING FIRE PROTECTION COVERAGE <i>Richfield # 6610</i>			
SITE STREET ADDRESS <i>3001 State Road 167 W</i>		<input type="checkbox"/> CITY	<input type="checkbox"/> TOWN	<input checked="" type="checkbox"/> VILLAGE	STATE <i>WI</i>	ZIP <i>53076</i>
OWNER NAME <i>Millis Transfer Inc</i>		PHONE NUMBER <i>() -</i>	TANK OWNER EMAIL			
OWNER STREET ADDRESS <i>P.O. Box 550</i>		<input type="checkbox"/> CITY	<input type="checkbox"/> TOWN	<input type="checkbox"/> VILLAGE	STATE <i>WI</i>	ZIP <i>54615</i>
CONTRACTOR NAME <i>ADVANCED TANK SERVICE, INC</i>		PHONE NUMBER <i>(715) 831 - 8484</i>	CELL NUMBER <i>(715) 579 - 8324</i>	EMAIL <i>molson@adv-tank.com</i>		
STREET ADDRESS <i>P.O. BOX 1072</i>		<input type="checkbox"/> CITY	<input type="checkbox"/> TOWN	<input type="checkbox"/> VILLAGE	STATE <i>WI</i>	ZIP <i>54702</i>
DATE WORK IS TO BEGIN	DATE/TIME REQUESTED FOR TANK INSPECTION <i>6/3 1:30pm</i>	ATCP 93 CERTIFIED INSTALLER SUPERVISOR OR QUALIFIED ENGINEER <i>Justin Peloguin</i>				

PROJECT WILL INVOLVE: (Check all that apply) Plan Approval No.: Approval Date:

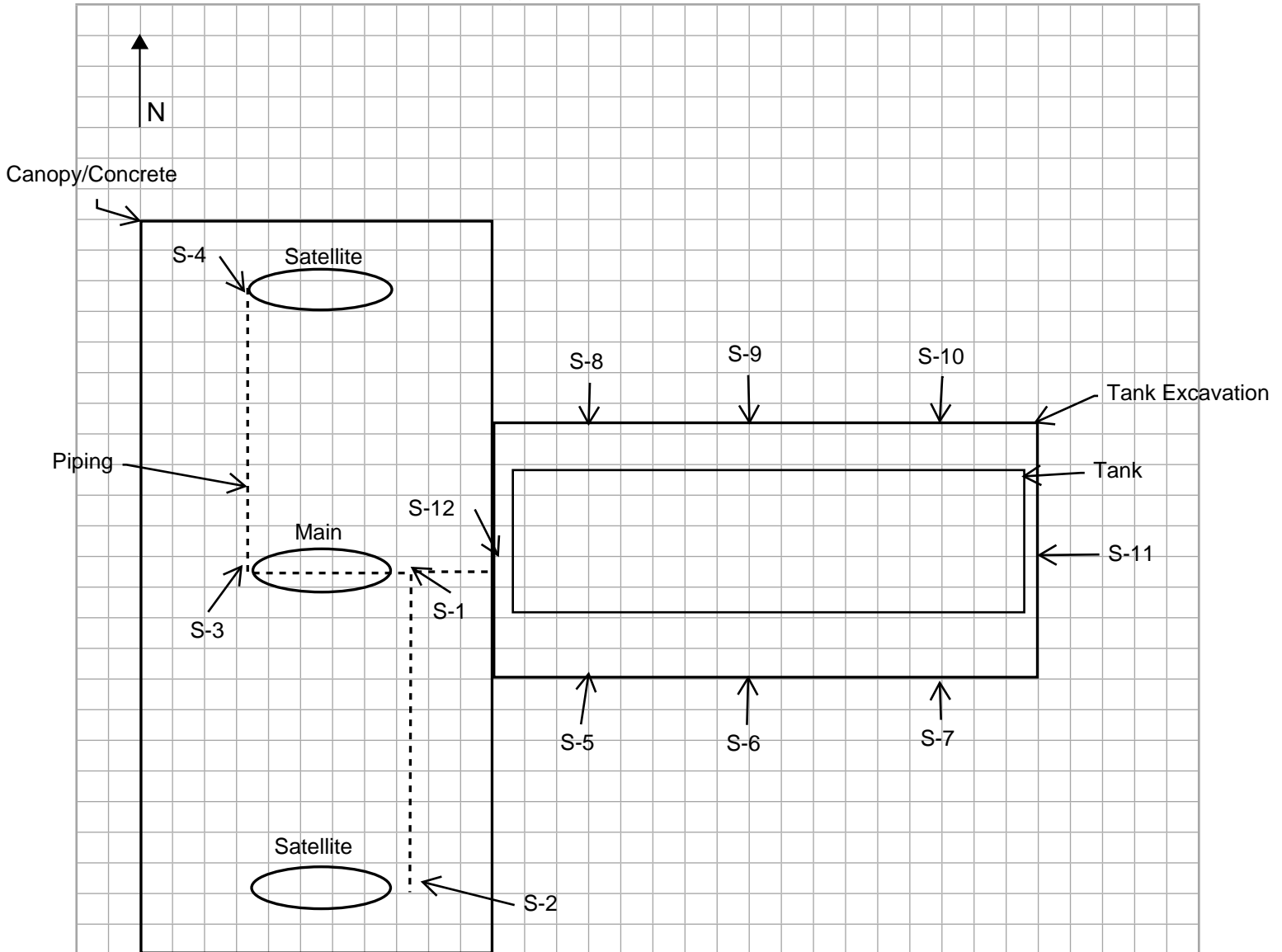
	UST	AST	No. of Tanks	Comments:
Tank Installation	<input type="checkbox"/>	<input type="checkbox"/>		<i>15K DSL</i> <i>TSSA: Cedar Corporation</i>
Dispenser POS Conversion	<input type="checkbox"/>	<input type="checkbox"/>		
Piping Installation or Upgrade	<input type="checkbox"/>	<input type="checkbox"/>		
Leak Detection Upgrade	<input type="checkbox"/>	<input type="checkbox"/>		
Spill or Overfill Protection	<input type="checkbox"/>	<input type="checkbox"/>		
Cathodic Protection or Interior Lining	<input type="checkbox"/>	<input type="checkbox"/>		
CERCLA Chemical Tank(s) Only ¹	<input type="checkbox"/>	<input type="checkbox"/>		
Tank Closure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>1</i>	
Alternative Fuel Storage Tank Installation ^{2,3,5} (see footnotes below)	<input type="checkbox"/>	<input type="checkbox"/>		
Alternative Fuel Storage Tank Conversion ^{4,5} (see footnotes below)	<input type="checkbox"/>	<input type="checkbox"/>		

¹Send Notice to DATCP (see address above). Installation inspection is not required if construction/installation is supervised by a qualified engineer.
²For LPO installations send notice to both the assigned LPO and DATCP General Inspection Inspector. DATCP General Inspection Inspector will be at the final inspection only. Alternative fuel storage tank systems shall not begin operation until the DATCP General Inspection Inspector has granted approval.
³For DATCP installation inspections send notice to only the assigned DATCP Installation Inspector. Alternative fuel storage tank systems shall not begin operation until the DATCP general inspector has granted approval.
⁴Send notice to only the DATCP General Inspection Inspector.
⁵See Conditional Approval letter and Notification email for Installation and general inspector information.

For USTs: If an Owner/Operator intends to begin operation immediately after the final inspection, they shall prepare and submit the documentation listed below at least 15 days prior to the final inspection:

- A TR-WM-137 Underground Flammable/Combustible Liquid Storage Tank Registration.
- A Wisconsin Operator Training Designation form.
- Affidavit of Financial Responsibility, certificate of insurance, and site schedule of covered locations and storage tanks.

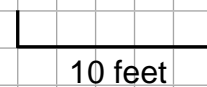
Figure 1 - Detailed Site Map



Notes:

- Tank size ~ 9'x32'.
- Tank excavation ~ 34'x17'.
- Piping samples collected at 3' below ground surface (bgs).
- Tank samples collected at 12' bgs.
- No base samples due to groundwater encountered at 13' bgs.

Scale



Client Name:
Wisconsin Department of Natural Resources

Site Location:
3001 State Highway 167, Richfield WI

Project No.
00590-0009

Photo No.
1

Date:
6/3/2022

Direction Photo Taken:

Northwest

Description:

View of the tank location prior to removal.



Photo No.
2

Date:
6/3/2022

Direction Photo Taken:

East

Description:

View of the tank during removal.



Photo No. 3	Date: 6/3/2022
Direction Photo Taken: Northwest	
Description: 15,000-gallon tank removed from the Site.	



Photo No. 4	Date: 6/3/2022
Direction Photo Taken: West	
Description: Area of the tank excavation.	



Photo No. 5	Date: 6/3/2022
Direction Photo Taken: South	
Description: View of the south sidewall of the tank excavation.	



Photo No. 6	Date: 6/3/2022
Direction Photo Taken: Southwest	
Description: View of the west sidewall of the tank excavation	



Photo No. 7	Date: 6/3/2022
Direction Photo Taken: Northwest	
Description: View of the north sidewall of the tank excavation.	



Photo No. 8	Date: 6/3/2022
Direction Photo Taken: Northeast	
Description: View of the east sidewall of the tank excavation.	



Photo No. 9	Date: 6/3/2022
Direction Photo Taken: North	
Description: View of the pipe excavation running from the main to the northern satellite.	



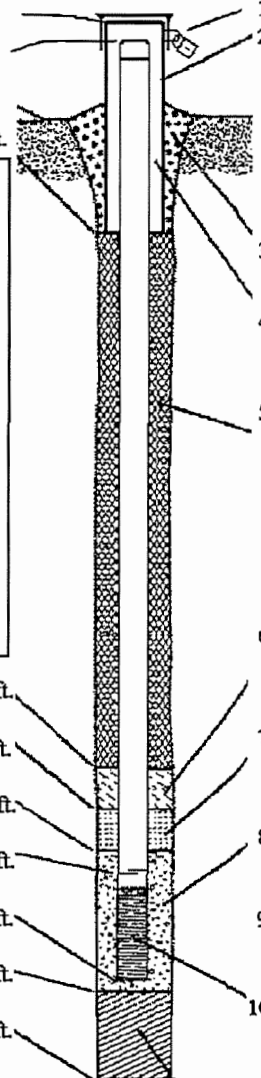
Photo No. 10	Date: 6/3/2022
Direction Photo Taken: North	
Description: View of the pipe excavation running from the main to the northern satellite.	





Attachment B – Field Forms

Facility/Project Name Millis Transfer - Richfield		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name MW-1	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. " Long. " or "		Wis. Unique Well No. DNR Well ID No.	
Facility ID		St. Plane ft. N. ft. E. S/C/N		Date Well Installed 10 / 28 / 2022 m m d d y y y y	
Type of Well Well Code /		Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 13, T. 09 N, R. 19 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Tony Kapugi On Site Environmental	
Distance from Waste/Source ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	

<p>A. Protective pipe, top elevation ----- ft. MSL</p> <p>B. Well casing, top elevation ----- ft. MSL</p> <p>C. Land surface elevation ----- ft. MSL</p> <p>D. Surface seal, bottom ----- ft. MSL or ----- ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 <u>Geoprobe</u> Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required): <u>NA</u></p> </div> <p>E. Bentonite seal, top ----- ft. MSL or <u>0.8</u> ft.</p> <p>F. Fine sand, top ----- ft. MSL or <u>3.5</u> ft.</p> <p>G. Filter pack, top ----- ft. MSL or <u>4</u> ft.</p> <p>H. Screen joint, top ----- ft. MSL or <u>10</u> ft.</p> <p>I. Well bottom ----- ft. MSL or <u>20</u> ft.</p> <p>J. Filter pack, bottom ----- ft. MSL or <u>18</u> ft.</p> <p>K. Borehole, bottom ----- ft. MSL or <u>20</u> ft.</p> <p>L. Borehole, diameter <u>3.5</u> in.</p> <p>M. O.D. well casing <u>1.66</u> in.</p> <p>N. I.D. well casing <u>1.38</u> in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>6</u> in. b. Length: <u>0.8</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>RW Sidley</u> b. Volume added <u>0.05</u> ft³ APPX</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>RW Sidley</u> b. Volume added <u>0.5</u> ft³ APPX</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer _____ c. Slot size: <u>0.01</u> in. d. Slotted length: <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input type="checkbox"/></p>
--	---

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

Signature Anthony Wagoner Firm Cedar Corp.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Millis Transfer - Richfield	County Name Washington	Well Name MW-1
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other

3. Time spent developing well 55 min.

4. Depth of well (from top of well casing) 19.7 ft.

5. Inside diameter of well 1.38 in.

6. Volume of water in filter pack and well casing 0.7 gal.

7. Volume of water removed from well 16.5 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>11.05</u> ft.	<u>11.08</u> ft.
Date	b. <u>11/02/2022</u>	<u>11/02/2022</u>
Time	c. <u>9:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>9:57</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.1</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe) <u>Brown Turbid</u>	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>Clear</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u>NA</u> mg/l	<u>NA</u> mg/l
15. COD	<u>NA</u> mg/l	<u>NA</u> mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Ashley Last Name: Wagner

Firm: Cedar Corporation

17. Additional comments on development:
Surged 1/4" tubing during development

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Dan Last Name: Millis

Facility/Firm: Millis Transfer

Street: _____

City/State/Zip: Black River Falls, WI

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

Signature: Ashley Wagner

Print Name: Ashley Wagner

Firm: Cedar Corporation

NOTE: See instructions for more information including a list of county codes and well type codes.

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Washington	WI Unique Well # of Removed Well MW-1	Hicap #	Facility Name
Latitude / Longitude (see instructions) N W	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS)
1/4 / 1/4 or Gov't Lot #	Section	Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 3001 W Holy Hill Rd	Well City, Village or Town Richfield	Well ZIP Code 53076	Original Well Owner millis transfer
Subdivision Name	Lot #	City of Present Owner Black River Falls	Present Well Owner millis transfer
Reason for Removal from Service NO contamination	WI Unique Well # of Replacement Well	Mailing Address of Present Owner P.O. Box 550	License/Permit/Monitoring #
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole		State WI	ZIP Code 54615

3. Filled & Sealed Well / Drillhole / Borehole Information **4. Pump, Liner, Screen, Casing & Sealing Material**

Original Construction Date (mm/dd/yyyy) 10/28/2022	<input checked="" type="checkbox"/> Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Screen removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	<input checked="" type="checkbox"/> Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Did sealing material rise to surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____
Total Well Depth From Ground Surface (ft.) 20	Casing Diameter (in.) 1.25
Lower Drillhole Diameter (in.) 3.5"	Casing Depth (ft.) 20
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips
If yes, to what depth (feet)?	Depth to Water (feet) 10.1
For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt	Surface	0.2	NM	
3/8" Bentonite Chips	0.2	20	0.3	

6. Comments

10 ft of 1" PVC casing removed. Screen remains in place.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Cedar Corporation	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 03-02-2023	DNR Use Only	
Street or Route W161 N497 Washington Ave	Telephone Number (920) 309-2289	Date Received	Noted By	
City Cedarburg	State WI	ZIP Code 53012	Signature of Person Doing Work Donley Wagon	Date Signed 03-08-2023



Groundwater Sampling Log

Project Information:

Project Name: Millis Transfer Richfield Well ID: PW-1 Date: 11/2/22

Cedar Project Number: M6838-001 Cedar Representative: Ashley Wagner

Project Address: 3001 W Holy Hill Rd, Richfield, WI 53076

Water Quality Meter (Make, Model, S/N): Hanna, HI9813-6, 04240008101

Water Level Information:

Depth to Bottom (ft. below TOC): NA Length of Water Column: NA

Depth of Water (ft. below TOC): NA One Well Volume (c*0.08[for 1" dia. Pipe]): NA

Well Purging Data:

Purge Method: Purge faucet in facility

Minimum Required Volume: NA

Water Quality Parameters:

Time	Gallons	pH	Cond. (mS/cm)	TDS (ppm)	Temp (°C)	Notes
	Initial					
10:48	NM	7.3	1.36	NM	15.5	color: clear
						odor: none
						clarity: clear
						Turned faucet on, and let run for appx 10 min, pressure tank turned on before sampling.

Temp = Degrees Celsius Cond. = Electrical Conductivity TDS = Total Dissolved Solids

Method of sampling: Sample spigot at pressure tank

Sample ID: _____

Analysis: PVOCs + Naphthalene

Sample Time: _____

Have groundwater parameters been met?

Yes No NA

Explanation: _____

Additional Comments: _____

Cedar Representative Signature

Date



Attachment C – Photo Log



Client Name: Millis Transfer		Site Location: Richfield, WI	Project No. M6838-001
Photo No. 1	Date: 11/2/2022		
Direction Photo Taken: East			
Description: Drilling MW-1			

Photo No. 2	Date: 11/2/2022		
Direction Photo Taken: West			
Description: Drilling MW-1			


Client Name: Millis Transfer		Site Location: Richfield, WI	Project No. M6838-001
Photo No. 3	Date: 11/2/2022		
Direction Photo Taken:			
Description: Constructed MW-1			

Photo No. 4	Date: 11/2/2022		
Direction Photo Taken: East-Northeast			
Description: Completed MW-1			

Client Name: Millis Transfer		Site Location: Richfield, WI	Project No. M6838-001
Photo No. 5	Date: 11/2/2022		
Direction Photo Taken: Southeast			
Description: Location of pressure tank, PW-1 sample			

Photo No. 6	Date: 11/2/2022		
Direction Photo Taken: East			
Description: Location of pressure tank, PW-1 sample			

Client Name: Millis Transfer

Site Location: Richfield, WI

Project No.
M6838-001

Photo No.
7 **Date:**
12/2/2022

Direction Photo Taken:

West

Description:

Former tank cavity paved over



Photo No.
8 **Date:**
12/2/2022

Direction Photo Taken:

West

Description:

Former tank cavity paved over – MW-1 in sound condition





PHOTOGRAPH LOG

Client Name: Millis Transfer

Site Location: Richfield, WI

Project No.
M6838-001

Photo No.
9

Date:
12/2/2022

Direction Photo Taken:

East-Southeast

Description:

Former tank cavity paved over – MW-1 in sound condition





Attachment D – Laboratory Analytical Reports

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-217596-1
Client Project/Site: Richfield Tank Pull

For:
Cedar Corporation
1695 Bellevue Street
Green Bay, Wisconsin 54311

Attn: Quin Lenz



Authorized for release by:
6/20/2022 7:46:03 AM

Sandie Fredrick, Project Manager II
(920)261-1660
Sandra.Fredrick@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Job ID: 500-217596-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-217596-1**

Comments

No additional comments.

Receipt

The samples were received on 6/4/2022 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

Method 8260B: The following sample was diluted due to the abundance of non-target analytes: S-1 (500-217596-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-1

Lab Sample ID: 500-217596-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	670		29	21	ug/Kg	100	✳	8260B	Total/NA
1,2,4-Trimethylbenzene	5700		110	41	ug/Kg	100	✳	8260B	Total/NA
1,3,5-Trimethylbenzene	2500		110	44	ug/Kg	100	✳	8260B	Total/NA
Xylenes, Total	3300		57	25	ug/Kg	100	✳	8260B	Total/NA

Client Sample ID: S-2

Lab Sample ID: 500-217596-2

No Detections.

Client Sample ID: S-3

Lab Sample ID: 500-217596-3

No Detections.

Client Sample ID: S-4

Lab Sample ID: 500-217596-4

No Detections.

Client Sample ID: S-5

Lab Sample ID: 500-217596-5

No Detections.

Client Sample ID: S-6

Lab Sample ID: 500-217596-6

No Detections.

Client Sample ID: S-7

Lab Sample ID: 500-217596-7

No Detections.

Client Sample ID: S-8

Lab Sample ID: 500-217596-8

No Detections.

Client Sample ID: S-9

Lab Sample ID: 500-217596-9

No Detections.

Client Sample ID: S-10

Lab Sample ID: 500-217596-10

No Detections.

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

No Detections.

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1100		15	11	ug/Kg	50	✳	8260B	Total/NA
Toluene	12	J B	15	8.7	ug/Kg	50	✳	8260B	Total/NA
1,2,4-Trimethylbenzene	9400		59	21	ug/Kg	50	✳	8260B	Total/NA
1,3,5-Trimethylbenzene	3100		59	23	ug/Kg	50	✳	8260B	Total/NA
Xylenes, Total	3100		30	13	ug/Kg	50	✳	8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-217596-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	32	J	50	18	ug/Kg	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Euromins Chicago

Method Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-217596-1	S-1	Solid	06/03/22 12:40	06/04/22 09:15
500-217596-2	S-2	Solid	06/03/22 12:45	06/04/22 09:15
500-217596-3	S-3	Solid	06/03/22 12:50	06/04/22 09:15
500-217596-4	S-4	Solid	06/03/22 12:55	06/04/22 09:15
500-217596-5	S-5	Solid	06/03/22 13:00	06/04/22 09:15
500-217596-6	S-6	Solid	06/03/22 13:03	06/04/22 09:15
500-217596-7	S-7	Solid	06/03/22 13:06	06/04/22 09:15
500-217596-8	S-8	Solid	06/03/22 13:10	06/04/22 09:15
500-217596-9	S-9	Solid	06/03/22 13:15	06/04/22 09:15
500-217596-10	S-10	Solid	06/03/22 13:20	06/04/22 09:15
500-217596-11	S-11	Solid	06/03/22 13:25	06/04/22 09:15
500-217596-12	S-12	Solid	06/03/22 13:30	06/04/22 09:15
500-217596-13	Trip Blank	Solid	06/03/22 10:00	06/04/22 09:15

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Client Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-1

Lab Sample ID: 500-217596-1

Date Collected: 06/03/22 12:40

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		29	17	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Ethylbenzene	670		29	21	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Methyl tert-butyl ether	<45		110	45	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Naphthalene	<38		110	38	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Toluene	<17		29	17	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
1,2,4-Trimethylbenzene	5700		110	41	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
1,3,5-Trimethylbenzene	2500		110	44	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Xylenes, Total	3300		57	25	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				06/03/22 12:40	06/16/22 12:08	100
Dibromofluoromethane (Surr)	89		75 - 120				06/03/22 12:40	06/16/22 12:08	100
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 12:40	06/16/22 12:08	100
Toluene-d8 (Surr)	96		75 - 120				06/03/22 12:40	06/16/22 12:08	100

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-2

Lab Sample ID: 500-217596-2

Date Collected: 06/03/22 12:45

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.5		15	8.5	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Naphthalene	<19		58	19	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Toluene	<8.5		15	8.5	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124	06/03/22 12:45	06/16/22 12:33	50
Dibromofluoromethane (Surr)	89		75 - 120	06/03/22 12:45	06/16/22 12:33	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126	06/03/22 12:45	06/16/22 12:33	50
Toluene-d8 (Surr)	95		75 - 120	06/03/22 12:45	06/16/22 12:33	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-3

Lab Sample ID: 500-217596-3

Date Collected: 06/03/22 12:50

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Toluene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 12:50	06/16/22 12:59	50
Dibromofluoromethane (Surr)	87		75 - 120				06/03/22 12:50	06/16/22 12:59	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126				06/03/22 12:50	06/16/22 12:59	50
Toluene-d8 (Surr)	98		75 - 120				06/03/22 12:50	06/16/22 12:59	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-4

Lab Sample ID: 500-217596-4

Date Collected: 06/03/22 12:55

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	✱	06/03/22 12:55	06/16/22 13:25	50
Ethylbenzene	<11		15	11	ug/Kg	✱	06/03/22 12:55	06/16/22 13:25	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	✱	06/03/22 12:55	06/16/22 13:25	50
Naphthalene	<20		59	20	ug/Kg	✱	06/03/22 12:55	06/16/22 13:25	50
Toluene	<8.6		15	8.6	ug/Kg	✱	06/03/22 12:55	06/16/22 13:25	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	✱	06/03/22 12:55	06/16/22 13:25	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	✱	06/03/22 12:55	06/16/22 13:25	50
Xylenes, Total	<13		29	13	ug/Kg	✱	06/03/22 12:55	06/16/22 13:25	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 12:55	06/16/22 13:25	50
Dibromofluoromethane (Surr)	86		75 - 120				06/03/22 12:55	06/16/22 13:25	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 12:55	06/16/22 13:25	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 12:55	06/16/22 13:25	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-5

Lab Sample ID: 500-217596-5

Date Collected: 06/03/22 13:00

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Toluene	<8.7		15	8.7	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				06/03/22 13:00	06/16/22 13:51	50
Dibromofluoromethane (Surr)	87		75 - 120				06/03/22 13:00	06/16/22 13:51	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 13:00	06/16/22 13:51	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 13:00	06/16/22 13:51	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-6

Lab Sample ID: 500-217596-6

Date Collected: 06/03/22 13:03

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.4		14	8.4	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Ethylbenzene	<11		14	11	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Naphthalene	<19		58	19	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Toluene	<8.5		14	8.5	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124				06/03/22 13:03	06/16/22 14:17	50
Dibromofluoromethane (Surr)	85		75 - 120				06/03/22 13:03	06/16/22 14:17	50
1,2-Dichloroethane-d4 (Surr)	83		75 - 126				06/03/22 13:03	06/16/22 14:17	50
Toluene-d8 (Surr)	97		75 - 120				06/03/22 13:03	06/16/22 14:17	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-7

Lab Sample ID: 500-217596-7

Date Collected: 06/03/22 13:06

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Toluene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124	06/03/22 13:06	06/16/22 14:42	50
Dibromofluoromethane (Surr)	87		75 - 120	06/03/22 13:06	06/16/22 14:42	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126	06/03/22 13:06	06/16/22 14:42	50
Toluene-d8 (Surr)	97		75 - 120	06/03/22 13:06	06/16/22 14:42	50

Client Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-8

Lab Sample ID: 500-217596-8

Date Collected: 06/03/22 13:10

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.5		14	8.5	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Ethylbenzene	<11		14	11	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Naphthalene	<19		58	19	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Toluene	<8.5		14	8.5	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124	06/03/22 13:10	06/16/22 15:08	50
Dibromofluoromethane (Surr)	89		75 - 120	06/03/22 13:10	06/16/22 15:08	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	06/03/22 13:10	06/16/22 15:08	50
Toluene-d8 (Surr)	98		75 - 120	06/03/22 13:10	06/16/22 15:08	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-9

Lab Sample ID: 500-217596-9

Date Collected: 06/03/22 13:15

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 90.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.9		15	8.9	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Naphthalene	<20		61	20	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Toluene	<8.9		15	8.9	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				06/03/22 13:15	06/16/22 15:33	50
Dibromofluoromethane (Surr)	86		75 - 120				06/03/22 13:15	06/16/22 15:33	50
1,2-Dichloroethane-d4 (Surr)	83		75 - 126				06/03/22 13:15	06/16/22 15:33	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 13:15	06/16/22 15:33	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-10

Lab Sample ID: 500-217596-10

Date Collected: 06/03/22 13:20

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.7		15	8.7	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Naphthalene	<20		60	20	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Toluene	<8.8		15	8.8	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
1,2,4-Trimethylbenzene	<21		60	21	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124				06/03/22 13:20	06/16/22 15:58	50
Dibromofluoromethane (Surr)	84		75 - 120				06/03/22 13:20	06/16/22 15:58	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126				06/03/22 13:20	06/16/22 15:58	50
Toluene-d8 (Surr)	99		75 - 120				06/03/22 13:20	06/16/22 15:58	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

Date Collected: 06/03/22 13:25

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 90.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.8		15	8.8	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Naphthalene	<20		60	20	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Toluene	<8.9		15	8.9	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
1,2,4-Trimethylbenzene	<22		60	22	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124				06/03/22 13:25	06/16/22 16:23	50
Dibromofluoromethane (Surr)	89		75 - 120				06/03/22 13:25	06/16/22 16:23	50
1,2-Dichloroethane-d4 (Surr)	87		75 - 126				06/03/22 13:25	06/16/22 16:23	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 13:25	06/16/22 16:23	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Date Collected: 06/03/22 13:30

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Ethylbenzene	1100		15	11	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Toluene	12 J B		15	8.7	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
1,2,4-Trimethylbenzene	9400		59	21	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
1,3,5-Trimethylbenzene	3100		59	23	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Xylenes, Total	3100		30	13	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124				06/03/22 13:30	06/16/22 16:50	50
Dibromofluoromethane (Surr)	88		75 - 120				06/03/22 13:30	06/16/22 16:50	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126				06/03/22 13:30	06/16/22 16:50	50
Toluene-d8 (Surr)	99		75 - 120				06/03/22 13:30	06/16/22 16:50	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-217596-13

Date Collected: 06/03/22 10:00

Matrix: Solid

Date Received: 06/04/22 09:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Naphthalene	<17		50	17	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Toluene	<7.4		13	7.4	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
1,2,4-Trimethylbenzene	32	J	50	18	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Xylenes, Total	<11		25	11	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124				06/03/22 10:00	06/16/22 17:17	50
Dibromofluoromethane (Surr)	86		75 - 120				06/03/22 10:00	06/16/22 17:17	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 10:00	06/16/22 17:17	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 10:00	06/16/22 17:17	50

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

GC/MS VOA

Prep Batch: 661137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-1	S-1	Total/NA	Solid	5035	
500-217596-2	S-2	Total/NA	Solid	5035	
500-217596-3	S-3	Total/NA	Solid	5035	
500-217596-4	S-4	Total/NA	Solid	5035	
500-217596-5	S-5	Total/NA	Solid	5035	
500-217596-6	S-6	Total/NA	Solid	5035	
500-217596-7	S-7	Total/NA	Solid	5035	
500-217596-8	S-8	Total/NA	Solid	5035	
500-217596-9	S-9	Total/NA	Solid	5035	
500-217596-10	S-10	Total/NA	Solid	5035	
500-217596-11	S-11	Total/NA	Solid	5035	
500-217596-12	S-12	Total/NA	Solid	5035	
500-217596-13	Trip Blank	Total/NA	Solid	5035	
LB3 500-661137/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-661137/22-A	Lab Control Sample	Total/NA	Solid	5035	
500-217596-2 MS	S-2	Total/NA	Solid	5035	
500-217596-2 MSD	S-2	Total/NA	Solid	5035	

Analysis Batch: 661273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-661137/21-A	Method Blank	Total/NA	Solid	8260B	661137
MB 500-661273/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-661137/22-A	Lab Control Sample	Total/NA	Solid	8260B	661137
LCS 500-661273/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 661438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-1	S-1	Total/NA	Solid	8260B	661137
500-217596-2	S-2	Total/NA	Solid	8260B	661137
500-217596-3	S-3	Total/NA	Solid	8260B	661137
500-217596-4	S-4	Total/NA	Solid	8260B	661137
500-217596-5	S-5	Total/NA	Solid	8260B	661137
500-217596-6	S-6	Total/NA	Solid	8260B	661137
500-217596-7	S-7	Total/NA	Solid	8260B	661137
500-217596-8	S-8	Total/NA	Solid	8260B	661137
500-217596-9	S-9	Total/NA	Solid	8260B	661137
500-217596-10	S-10	Total/NA	Solid	8260B	661137
500-217596-11	S-11	Total/NA	Solid	8260B	661137
500-217596-12	S-12	Total/NA	Solid	8260B	661137
500-217596-13	Trip Blank	Total/NA	Solid	8260B	661137
MB 500-661438/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-661438/4	Lab Control Sample	Total/NA	Solid	8260B	
500-217596-2 MS	S-2	Total/NA	Solid	8260B	661137
500-217596-2 MSD	S-2	Total/NA	Solid	8260B	661137

General Chemistry

Analysis Batch: 659958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-1	S-1	Total/NA	Solid	Moisture	
500-217596-2	S-2	Total/NA	Solid	Moisture	

Eurofins Chicago

QC Association Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

General Chemistry (Continued)

Analysis Batch: 659958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-3	S-3	Total/NA	Solid	Moisture	
500-217596-4	S-4	Total/NA	Solid	Moisture	
500-217596-5	S-5	Total/NA	Solid	Moisture	
500-217596-6	S-6	Total/NA	Solid	Moisture	
500-217596-7	S-7	Total/NA	Solid	Moisture	
500-217596-8	S-8	Total/NA	Solid	Moisture	
500-217596-9	S-9	Total/NA	Solid	Moisture	
500-217596-10	S-10	Total/NA	Solid	Moisture	
500-217596-11	S-11	Total/NA	Solid	Moisture	
500-217596-12	S-12	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-217596-1	S-1	95	89	85	96
500-217596-2	S-2	96	89	84	95
500-217596-2 MS	S-2	96	90	83	99
500-217596-2 MSD	S-2	96	88	82	99
500-217596-3	S-3	96	87	84	98
500-217596-4	S-4	96	86	85	96
500-217596-5	S-5	98	87	85	96
500-217596-6	S-6	97	85	83	97
500-217596-7	S-7	98	87	84	97
500-217596-8	S-8	96	89	86	98
500-217596-9	S-9	98	86	83	96
500-217596-10	S-10	97	84	84	99
500-217596-11	S-11	100	89	87	96
500-217596-12	S-12	101	88	86	99
500-217596-13	Trip Blank	97	86	85	96
LB3 500-661137/21-A	Method Blank	108	102	107	97
LCS 500-661137/22-A	Lab Control Sample	103	108	110	98
LCS 500-661273/4	Lab Control Sample	109	105	110	111
LCS 500-661438/4	Lab Control Sample	90	91	81	98
MB 500-661273/6	Method Blank	112	106	107	98
MB 500-661438/6	Method Blank	97	86	84	98

Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- DCA = 1,2-Dichloroethane-d4 (Surr)
- TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-661137/21-A
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661137

Analyte	LB3	LB3	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<7.3		13	7.3	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Naphthalene	<17		50	17	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Toluene	9.92	J	13	7.4	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Xylenes, Total	<11		25	11	ug/Kg		06/14/22 11:30	06/15/22 15:59	50

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	108		72 - 124	06/14/22 11:30	06/15/22 15:59	50
Dibromofluoromethane (Surr)	102		75 - 120	06/14/22 11:30	06/15/22 15:59	50
1,2-Dichloroethane-d4 (Surr)	107		75 - 126	06/14/22 11:30	06/15/22 15:59	50
Toluene-d8 (Surr)	97		75 - 120	06/14/22 11:30	06/15/22 15:59	50

Lab Sample ID: LCS 500-661137/22-A
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661137

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	2500	2570		ug/Kg		103	70 - 120
Ethylbenzene	2500	2540		ug/Kg		101	70 - 123
Methyl tert-butyl ether	2500	2870		ug/Kg		115	55 - 123
Naphthalene	2500	3400		ug/Kg		136	53 - 144
Toluene	2500	2440		ug/Kg		98	70 - 125
1,2,4-Trimethylbenzene	2500	2590		ug/Kg		103	70 - 123
1,3,5-Trimethylbenzene	2500	2650		ug/Kg		106	70 - 123
Xylenes, Total	5000	5000		ug/Kg		100	70 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		72 - 124
Dibromofluoromethane (Surr)	108		75 - 120
1,2-Dichloroethane-d4 (Surr)	110		75 - 126
Toluene-d8 (Surr)	98		75 - 120

Lab Sample ID: 500-217596-2 MS
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 661137

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<8.5		2900	2680		ug/Kg	⊛	92	70 - 120
Ethylbenzene	<11		2900	2940		ug/Kg	⊛	101	70 - 123
Methyl tert-butyl ether	<23		2900	2310		ug/Kg	⊛	80	55 - 123
Naphthalene	<19		2900	2370		ug/Kg	⊛	82	53 - 144
Toluene	<8.5		2900	2790		ug/Kg	⊛	96	70 - 125
1,2,4-Trimethylbenzene	<21		2900	2930		ug/Kg	⊛	101	70 - 123
1,3,5-Trimethylbenzene	<22		2900	3060		ug/Kg	⊛	105	70 - 123
Xylenes, Total	<13		5800	5690		ug/Kg	⊛	98	70 - 125

Eurofins Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane (Surr)	90		75 - 120
1,2-Dichloroethane-d4 (Surr)	83		75 - 126
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: 500-217596-2 MSD

Matrix: Solid

Analysis Batch: 661438

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 661137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec Limits	RPD	Limit
				Result	Qualifier						
Benzene	<8.5		2900	2450		ug/Kg	✱	85	70 - 120	9	30
Ethylbenzene	<11		2900	2720		ug/Kg	✱	94	70 - 123	8	30
Methyl tert-butyl ether	<23		2900	2120		ug/Kg	✱	73	55 - 123	9	30
Naphthalene	<19		2900	2630		ug/Kg	✱	91	53 - 144	10	30
Toluene	<8.5		2900	2640		ug/Kg	✱	91	70 - 125	6	30
1,2,4-Trimethylbenzene	<21		2900	2720		ug/Kg	✱	94	70 - 123	7	30
1,3,5-Trimethylbenzene	<22		2900	2830		ug/Kg	✱	98	70 - 123	8	30
Xylenes, Total	<13		5800	5250		ug/Kg	✱	90	70 - 125	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane (Surr)	88		75 - 120
1,2-Dichloroethane-d4 (Surr)	82		75 - 126
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: MB 500-661273/6

Matrix: Solid

Analysis Batch: 661273

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.18		0.25	0.18	ug/Kg		06/15/22 12:46	1	
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg		06/15/22 12:46	1	
Naphthalene	<0.33		1.0	0.33	ug/Kg		06/15/22 12:46	1	
Toluene	<0.15		0.25	0.15	ug/Kg		06/15/22 12:46	1	
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg		06/15/22 12:46	1	
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg		06/15/22 12:46	1	
Xylenes, Total	<0.22		0.50	0.22	ug/Kg		06/15/22 12:46	1	

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		75 - 120		06/15/22 12:46	1
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		06/15/22 12:46	1
Toluene-d8 (Surr)	98		75 - 120		06/15/22 12:46	1

Lab Sample ID: LCS 500-661273/4

Matrix: Solid

Analysis Batch: 661273

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

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QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-661273/4
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	49.6		ug/Kg		99	70 - 123
Methyl tert-butyl ether	50.0	45.4		ug/Kg		91	55 - 123
Naphthalene	50.0	61.1		ug/Kg		122	53 - 144
Toluene	50.0	49.4		ug/Kg		99	70 - 125
1,2,4-Trimethylbenzene	50.0	52.0		ug/Kg		104	70 - 123
1,3,5-Trimethylbenzene	50.0	54.1		ug/Kg		108	70 - 123
Xylenes, Total	100	97.3		ug/Kg		97	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		72 - 124
Dibromofluoromethane (Surr)	105		75 - 120
1,2-Dichloroethane-d4 (Surr)	110		75 - 126
Toluene-d8 (Surr)	111		75 - 120

Lab Sample ID: MB 500-661438/6
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			06/16/22 11:41	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			06/16/22 11:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			06/16/22 11:41	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			06/16/22 11:41	1
Toluene	<0.15		0.25	0.15	ug/Kg			06/16/22 11:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			06/16/22 11:41	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			06/16/22 11:41	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			06/16/22 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124		06/16/22 11:41	1
Dibromofluoromethane (Surr)	86		75 - 120		06/16/22 11:41	1
1,2-Dichloroethane-d4 (Surr)	84		75 - 126		06/16/22 11:41	1
Toluene-d8 (Surr)	98		75 - 120		06/16/22 11:41	1

Lab Sample ID: LCS 500-661438/4
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	54.3		ug/Kg		109	70 - 120
Ethylbenzene	50.0	60.0		ug/Kg		120	70 - 123
Methyl tert-butyl ether	50.0	46.0		ug/Kg		92	55 - 123
Naphthalene	50.0	48.3		ug/Kg		97	53 - 144
Toluene	50.0	56.1		ug/Kg		112	70 - 125
1,2,4-Trimethylbenzene	50.0	59.1		ug/Kg		118	70 - 123
1,3,5-Trimethylbenzene	50.0	61.4		ug/Kg		123	70 - 123
Xylenes, Total	100	117		ug/Kg		117	70 - 125

QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-661438/4

Matrix: Solid

Analysis Batch: 661438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		72 - 124
Dibromofluoromethane (Surr)	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	81		75 - 126
Toluene-d8 (Surr)	98		75 - 120

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Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-1
Date Collected: 06/03/22 12:40
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-1
Date Collected: 06/03/22 12:40
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-1
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:40	WRE	TAL CHI
Total/NA	Analysis	8260B		100	661438	06/16/22 12:08	W1T	TAL CHI

Client Sample ID: S-2
Date Collected: 06/03/22 12:45
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-2
Date Collected: 06/03/22 12:45
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-2
Matrix: Solid
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 12:33	W1T	TAL CHI

Client Sample ID: S-3
Date Collected: 06/03/22 12:50
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-3
Date Collected: 06/03/22 12:50
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-3
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 12:59	W1T	TAL CHI

Client Sample ID: S-4
Date Collected: 06/03/22 12:55
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

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Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-4

Date Collected: 06/03/22 12:55

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-4

Matrix: Solid

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 13:25	W1T	TAL CHI

Client Sample ID: S-5

Date Collected: 06/03/22 13:00

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-5

Date Collected: 06/03/22 13:00

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-5

Matrix: Solid

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 13:51	W1T	TAL CHI

Client Sample ID: S-6

Date Collected: 06/03/22 13:03

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-6

Date Collected: 06/03/22 13:03

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-6

Matrix: Solid

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:03	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 14:17	W1T	TAL CHI

Client Sample ID: S-7

Date Collected: 06/03/22 13:06

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-7

Date Collected: 06/03/22 13:06

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-7

Matrix: Solid

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:06	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 14:42	W1T	TAL CHI

Client Sample ID: S-8

Date Collected: 06/03/22 13:10

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-8

Date Collected: 06/03/22 13:10

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-8

Matrix: Solid

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 15:08	W1T	TAL CHI

Client Sample ID: S-9

Date Collected: 06/03/22 13:15

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-9

Date Collected: 06/03/22 13:15

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-9

Matrix: Solid

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 15:33	W1T	TAL CHI

Client Sample ID: S-10

Date Collected: 06/03/22 13:20

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-10

Lab Sample ID: 500-217596-10

Date Collected: 06/03/22 13:20

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 15:58	W1T	TAL CHI

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

Date Collected: 06/03/22 13:25

Matrix: Solid

Date Received: 06/04/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

Date Collected: 06/03/22 13:25

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 16:23	W1T	TAL CHI

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Date Collected: 06/03/22 13:30

Matrix: Solid

Date Received: 06/04/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Date Collected: 06/03/22 13:30

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 16:50	W1T	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-217596-13

Date Collected: 06/03/22 10:00

Matrix: Solid

Date Received: 06/04/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 10:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 17:17	W1T	TAL CHI

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22


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Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

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Client Information		Sampler <u>Quin Lenz</u>		Lab PM Fredrick Sandie		Carrier Tracking No(s) <u>5776 05978336</u>		COC No 500-101813-44117 2	
Client Contact: Quin Lenz		Phone <u>(920) 309-4197</u>		E-Mail Sandra.Fredrick@et.eurofinsus.com		State of Origin <u>WI</u>		Page Page 1 <u>1 of 2</u>	
Company Cedar Corporation		PWS D		Analysis Requested				Job # <u>500-217596</u>	
Address 1695 Bellevue Street		Due Date Requested <u>Standard</u>		 500-217596 COC				Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaI-SO4 Q Na2SO3 F MeOH S H2SO4 G Amchlor T TSP Dodeca hydrate H Ascorbic Acid U Acetone I Ice V MCAA J DI Water W pH 4-5 K EDTA Y Tizma L EDA Z other (specify) Other:	
City Green Bay		TAT Requested (days) <u>Standard</u>							
State Zip WI 54311		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone 715-235-9081(Tel)		PC #: Purchase Order not required							
Email quin.lenz@cedarcorp.com		VO #:							
Project Name RICHFIELD TANK PULL		Project # 50006556		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Total Number of Containers	
Site		SSOW#		8260B - PYCOC-NAP					
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, D=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Special Instructions/Note	
				Preservation Code:					
1	S-1	6/3/22	1240	G	Solid		X		
2	S-2		1245		Solid		X		
3	S-3		1250		Solid		X		
4	S-4		1255		Solid		X		
5	S-5		1300		Solid		X		
6	S-6		1303		Solid		X		
7	S-7		1306		Solid		X		
8	S-8		1310				X		
9	S-9		1315				X		
10	S-10		1320				X		
11	S-11		1325				X		
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date		Time		Method of Shipment:			
Relinquished by <u>[Signature]</u>		Date/Time <u>6/3/22 1535</u>		Company <u>Cedar</u>		Received by <u>Stephanie Hernandez</u>		Date/Time <u>6/14/22 0915</u>	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <u>43-5H 4.0+3 b</u>					

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-217596-1

Login Number: 217596

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

Attn: Ashley Wagner
Cedar Corporation
W61 N497 Washington Ave
Cedarburg Wisconsin 53012

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JOB DESCRIPTION

Millis Transfer Richfield, WI

JOB NUMBER

500-224837-1



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Case Narrative

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Job ID: 500-224837-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-224837-1

Comments

No additional comments.

Receipt

The samples were received on 11/3/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Client Sample ID: MW-1

Lab Sample ID: 500-224837-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.53		0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	1.7		0.50	0.18	ug/L	1		8260B	Total/NA
Toluene	0.59		0.50	0.15	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	2.4		1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.82	J	1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	7.2		1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: PW-1

Lab Sample ID: 500-224837-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.70	J	1.0	0.39	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-224837-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-224837-1	MW-1	Water	11/02/22 09:55	11/03/22 09:40
500-224837-2	PW-1	Water	11/02/22 10:48	11/03/22 09:40
500-224837-3	Trip Blank	Water	11/02/22 00:00	11/03/22 09:40

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Client Sample ID: MW-1

Lab Sample ID: 500-224837-1

Date Collected: 11/02/22 09:55

Matrix: Water

Date Received: 11/03/22 09:40

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.53		0.50	0.15	ug/L			11/15/22 12:24	1
Ethylbenzene	1.7		0.50	0.18	ug/L			11/15/22 12:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/15/22 12:24	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/15/22 12:24	1
Toluene	0.59		0.50	0.15	ug/L			11/15/22 12:24	1
1,2,4-Trimethylbenzene	2.4		1.0	0.36	ug/L			11/15/22 12:24	1
1,3,5-Trimethylbenzene	0.82	J	1.0	0.25	ug/L			11/15/22 12:24	1
Xylenes, Total	7.2		1.0	0.22	ug/L			11/15/22 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		72 - 124					11/15/22 12:24	1
Dibromofluoromethane (Surr)	89		75 - 120					11/15/22 12:24	1
1,2-Dichloroethane-d4 (Surr)	79		75 - 126					11/15/22 12:24	1
Toluene-d8 (Surr)	96		75 - 120					11/15/22 12:24	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Client Sample ID: PW-1

Lab Sample ID: 500-224837-2

Date Collected: 11/02/22 10:48

Matrix: Water

Date Received: 11/03/22 09:40

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/15/22 12:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/15/22 12:49	1
Methyl tert-butyl ether	0.70	J	1.0	0.39	ug/L			11/15/22 12:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/15/22 12:49	1
Toluene	<0.15		0.50	0.15	ug/L			11/15/22 12:49	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/15/22 12:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/15/22 12:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/15/22 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		72 - 124					11/15/22 12:49	1
Dibromofluoromethane (Surr)	95		75 - 120					11/15/22 12:49	1
1,2-Dichloroethane-d4 (Surr)	80		75 - 126					11/15/22 12:49	1
Toluene-d8 (Surr)	96		75 - 120					11/15/22 12:49	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-224837-3

Date Collected: 11/02/22 00:00

Matrix: Water

Date Received: 11/03/22 09:40

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/15/22 12:00	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/15/22 12:00	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/15/22 12:00	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/15/22 12:00	1
Toluene	<0.15		0.50	0.15	ug/L			11/15/22 12:00	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/15/22 12:00	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/15/22 12:00	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/15/22 12:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		72 - 124					11/15/22 12:00	1
Dibromofluoromethane (Surr)	89		75 - 120					11/15/22 12:00	1
1,2-Dichloroethane-d4 (Surr)	80		75 - 126					11/15/22 12:00	1
Toluene-d8 (Surr)	96		75 - 120					11/15/22 12:00	1

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

GC/MS VOA

Analysis Batch: 684938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224837-1	MW-1	Total/NA	Water	8260B	
500-224837-2	PW-1	Total/NA	Water	8260B	
500-224837-3	Trip Blank	Total/NA	Water	8260B	
MB 500-684938/6	Method Blank	Total/NA	Water	8260B	
LCS 500-684938/5	Lab Control Sample	Total/NA	Water	8260B	

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Surrogate Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-224837-1	MW-1	77	89	79	96
500-224837-2	PW-1	79	95	80	96
500-224837-3	Trip Blank	78	89	80	96
LCS 500-684938/5	Lab Control Sample	77	96	83	95
MB 500-684938/6	Method Blank	78	94	79	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-684938/6
Matrix: Water
Analysis Batch: 684938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.50	0.15	ug/L			11/15/22 11:34	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/15/22 11:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/15/22 11:34	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/15/22 11:34	1
Toluene	<0.15		0.50	0.15	ug/L			11/15/22 11:34	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/15/22 11:34	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/15/22 11:34	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/15/22 11:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	78		72 - 124		11/15/22 11:34	1
Dibromofluoromethane (Surr)	94		75 - 120		11/15/22 11:34	1
1,2-Dichloroethane-d4 (Surr)	79		75 - 126		11/15/22 11:34	1
Toluene-d8 (Surr)	95		75 - 120		11/15/22 11:34	1

Lab Sample ID: LCS 500-684938/5
Matrix: Water
Analysis Batch: 684938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	50.0	42.1		ug/L		84	70 - 120
Ethylbenzene	50.0	44.6		ug/L		89	70 - 123
Methyl tert-butyl ether	50.0	42.8		ug/L		86	55 - 123
Naphthalene	50.0	46.9		ug/L		94	53 - 144
Toluene	50.0	44.6		ug/L		89	70 - 125
1,2,4-Trimethylbenzene	50.0	42.7		ug/L		85	70 - 123
1,3,5-Trimethylbenzene	50.0	43.4		ug/L		87	70 - 123
Xylenes, Total	100	83.4		ug/L		83	70 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	77		72 - 124
Dibromofluoromethane (Surr)	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	83		75 - 126
Toluene-d8 (Surr)	95		75 - 120

Lab Chronicle

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Client Sample ID: MW-1

Date Collected: 11/02/22 09:55

Date Received: 11/03/22 09:40

Lab Sample ID: 500-224837-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	684938	W1T	EET CHI	11/15/22 12:24

Client Sample ID: PW-1

Date Collected: 11/02/22 10:48

Date Received: 11/03/22 09:40

Lab Sample ID: 500-224837-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	684938	W1T	EET CHI	11/15/22 12:49

Client Sample ID: Trip Blank

Date Collected: 11/02/22 00:00

Date Received: 11/03/22 09:40

Lab Sample ID: 500-224837-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	684938	W1T	EET CHI	11/15/22 12:00

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

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Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-224837-1

Login Number: 224837

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashley Wagner
Cedar Corporation
W61 N497 Washington Ave
Cedarburg, Wisconsin 53012

Generated 12/14/2022 3:36:05 PM

JOB DESCRIPTION

Millis Transfer Richfield

JOB NUMBER

500-226264-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



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Case Narrative

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Job ID: 500-226264-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-226264-1**

Comments

No additional comments.

Receipt

The samples were received on 12/3/2022 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Client Sample ID: MW-1

Lab Sample ID: 500-226264-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.26	J	0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	2.9		0.50	0.18	ug/L	1		8260B	Total/NA
Naphthalene	0.44	J	1.0	0.34	ug/L	1		8260B	Total/NA
Toluene	0.65	B	0.50	0.15	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	3.2		1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.97	J	1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	8.2		1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-226264-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.21	J B	0.50	0.15	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-226264-1	MW-1	Ground Water	12/02/22 09:00	12/03/22 09:35
500-226264-2	Trip Blank	Water	12/02/22 00:00	12/03/22 09:35

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Client Sample ID: MW-1

Lab Sample ID: 500-226264-1

Date Collected: 12/02/22 09:00

Matrix: Ground Water

Date Received: 12/03/22 09:35

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.26	J	0.50	0.15	ug/L			12/07/22 16:14	1
Ethylbenzene	2.9		0.50	0.18	ug/L			12/07/22 16:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/07/22 16:14	1
Naphthalene	0.44	J	1.0	0.34	ug/L			12/07/22 16:14	1
Toluene	0.65	B	0.50	0.15	ug/L			12/07/22 16:14	1
1,2,4-Trimethylbenzene	3.2		1.0	0.36	ug/L			12/07/22 16:14	1
1,3,5-Trimethylbenzene	0.97	J	1.0	0.25	ug/L			12/07/22 16:14	1
Xylenes, Total	8.2		1.0	0.22	ug/L			12/07/22 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124					12/07/22 16:14	1
Dibromofluoromethane (Surr)	97		75 - 120					12/07/22 16:14	1
1,2-Dichloroethane-d4 (Surr)	88		75 - 126					12/07/22 16:14	1
Toluene-d8 (Surr)	93		75 - 120					12/07/22 16:14	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-226264-2

Date Collected: 12/02/22 00:00

Matrix: Water

Date Received: 12/03/22 09:35

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/07/22 12:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/07/22 12:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/07/22 12:39	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/07/22 12:39	1
Toluene	0.21	J B	0.50	0.15	ug/L			12/07/22 12:39	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/07/22 12:39	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/07/22 12:39	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/07/22 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124					12/07/22 12:39	1
Dibromofluoromethane (Surr)	96		75 - 120					12/07/22 12:39	1
1,2-Dichloroethane-d4 (Surr)	86		75 - 126					12/07/22 12:39	1
Toluene-d8 (Surr)	91		75 - 120					12/07/22 12:39	1

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

GC/MS VOA

Analysis Batch: 688607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226264-1	MW-1	Total/NA	Ground Water	8260B	
500-226264-2	Trip Blank	Total/NA	Water	8260B	
MB 500-688607/7	Method Blank	Total/NA	Water	8260B	
LCS 500-688607/5	Lab Control Sample	Total/NA	Water	8260B	

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Surrogate Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Ground Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-226264-1	MW-1	89	97	88	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-226264-2	Trip Blank	89	96	86	91
LCS 500-688607/5	Lab Control Sample	88	99	86	92
MB 500-688607/7	Method Blank	91	100	89	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-688607/7
Matrix: Water
Analysis Batch: 688607

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.50	0.15	ug/L			12/07/22 11:18	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/07/22 11:18	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/07/22 11:18	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/07/22 11:18	1
Toluene	0.170	J	0.50	0.15	ug/L			12/07/22 11:18	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/07/22 11:18	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/07/22 11:18	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/07/22 11:18	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	91		72 - 124		12/07/22 11:18	1
Dibromofluoromethane (Surr)	100		75 - 120		12/07/22 11:18	1
1,2-Dichloroethane-d4 (Surr)	89		75 - 126		12/07/22 11:18	1
Toluene-d8 (Surr)	93		75 - 120		12/07/22 11:18	1

Lab Sample ID: LCS 500-688607/5
Matrix: Water
Analysis Batch: 688607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	46.5		ug/L		93	70 - 123
Methyl tert-butyl ether	50.0	40.2		ug/L		80	55 - 123
Naphthalene	50.0	41.5		ug/L		83	53 - 144
Toluene	50.0	44.7		ug/L		89	70 - 125
1,2,4-Trimethylbenzene	50.0	47.5		ug/L		95	70 - 123
1,3,5-Trimethylbenzene	50.0	48.8		ug/L		98	70 - 123
Xylenes, Total	100	90.6		ug/L		91	70 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	88		72 - 124
Dibromofluoromethane (Surr)	99		75 - 120
1,2-Dichloroethane-d4 (Surr)	86		75 - 126
Toluene-d8 (Surr)	92		75 - 120

Lab Chronicle

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Client Sample ID: MW-1

Date Collected: 12/02/22 09:00

Date Received: 12/03/22 09:35

Lab Sample ID: 500-226264-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	688607	W1T	EET CHI	12/07/22 16:14

Client Sample ID: Trip Blank

Date Collected: 12/02/22 00:00

Date Received: 12/03/22 09:35

Lab Sample ID: 500-226264-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	688607	W1T	EET CHI	12/07/22 12:39

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

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Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-226264-1

Login Number: 226264

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Notice: Hazardous substance discharges must be reported immediately according to [Wis. Stat. § 292.11](#). Non-emergency hazardous substance discharges may be reported by submitting this online form, calling the Department or visiting an office in person. Under [Wis. Stat. § 292.99](#), the penalty for violating the reporting requirement of Wis. Stat. ch. 292 shall be no less than \$10 nor more than \$5,000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (Wis. Stat. § 19.31 - 19.39). Submitting the notification as part of a Phase 1 or Phase 2 environment assessment report is not considered immediate notification under Wis. Stat. ch. 292.

Reporter Information:

Name: Ashley Wagner **Company:** Cedar Corp

Address: W61 N497 Washington Avenue, Cedarburg, WI, 53012 **Phone:** 4144105206

Email: ashley.wagner@cedarcorp.com

Site Information:

Site Name: Millis Transfer - Richfield

Address: 3001 Holy Hill Rd, Richfield, WI, 53076

Address Description: Not Applicable

Coordinates, County and municipality where contamination was found on the property

Coordinates: WTM 667175 310101 **Lat/Long** 43.24935 -88.18703

What does the coordinate location represent? Contamination source (preferred)

County: Washington **Municipality:** Richfield



Responsible Party (RP):

Company Name	Full Name	Address	Email	Phone Number
Millis Transfer		PO Box 550, Black River Falls, WI, 54615	dan.millis@millistransfer.com	7152844384

Contact Person:

Representing the Responsible Party, Business or Property Owner

Contact Person Information: Same as Contact Reporting Discharge

Company Name	Full Name	Address	Email	Phone Number
Cedar Corp	Ashley Wagner	W61 N497 Washington Avenue, Cedarburg, WI, 53012	ashley.wagner@cedarcorp.com	4144105206

Hazardous Substance Information**Type of Discharge:**

Aboveground Petroleum Storage Tank System

Contamination was discovered as a result of:

Tank Closure Assessment - 6/3/2022

Hazardous Substance Discharged:

Diesel
VOC – Other (Specify)

VOC Other Comments: Trimethylbenzene

Impacts to the Environment**Impacts to the Environment Information:**

Soil Contamination

Lab Results and other Info

Lab results or Report: Lab results or report are attached

Additional documentation: Submit request for No Action Required (NAR) determination under Wis. Admin. Code s. NR 716.05 - Letter requested (General liability clarification letter under Wis. Stat. s. 292.55) - Include Form 4400-237 (\$700)

Document Type: Technical Assistance and Environmental Liability Clarification Request Form (Form 4400-237) - [Document has been revised since originally submitted]

Payment type: Mail Check

Payment Amount:

700

Additional Comments: Fee of \$700 has already been paid.

If you have questions please contact:

JENNIFER MEYER

jennifer.meyer1@wisconsin.gov

(608) 219-2205



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 P.O. Box 7837, Madison, WI 53707-7837
 (608) 224-4942

Wis. Admin. Code §ATCP 93.560

FOR OFFICE USE ONLY

TANK SYSTEM SERVICE AND CLOSURE ASSESSMENT REPORT

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m) Wis. Stats.).

Complete One Form for Each System Service Event

FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE 'N/A' BOX

CHECK ONE: UNDERGROUND ABOVEGROUND

Part A - To be completed by contractor performing repair or closure

A. TYPE OF SERVICE CLOSURE REPAIR/UPGRADE CHANGE-IN-SERVICE

Indicate portion of system being serviced if a repair, upgrade or change-in-service is being performed

Remote fill Tank Piping Transition/containment sump Spill bucket Dispenser

B. IDENTIFICATION

OWNER INFORMATION

OWNER NAME MILLIS TRANSFER INC	CONTACT NAME CRAIG SCHMIDT	TITLE
MAILING ADDRESS P.O. BOX 550	<input type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE BLACK RIVER FALLS	STATE ZIP WI 54615
TELEPHONE: (715) 299 - 2319	E-MAIL	

SITE INFORMATION

FACILITY NAME MILLIS TRANSFER INC		
SITE ADDRESS (Not PO Box) 3001 STATE RD 167 W	<input type="checkbox"/> CITY <input type="checkbox"/> TOWN <input checked="" type="checkbox"/> VILLAGE RICHFIELD	STATE ZIP WI 53076

SERVICE CONTRACTOR INFORMATION

PRIMARY SERVICE CONTRACTOR Section A Above ADVANCED TANK SERVICE, INC	SERVICE CONTRACTOR CERT ID # 507193	TELEPHONE: (715) 831 - 8484	CELL: (715) 579 - 8324
STREET ADDRESS P.O. BOX 1072	<input type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE EAU CLAIRE	STATE ZIP WI 54702	

C. TANK SYSTEM DETAIL (Complete for all service activities)

a	b	c	d	e	f	g	h	
Tank ID #	Type of Closure ¹	Tank Material of Construction	Piping Material of Construction	Tank Capacity (gallons)	Contents ²	Release - System Integrity Compromised (e.g. holes, cracks, loose connection,	If "Yes" to "g", Then Specify Source and Cause of Release ³	
							Source of Release ³	Cause of Release ⁴
113523	P	STEEL	FRP	15000	DL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		

- Indicate type of closure: P = Permanent, TOS = Temporarily Out-of-Service, CIP = Closure In-Place
- Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, PX = Premix, WO = Waste/Used Motor Oil, FCHZW = Flammable/Combustible Hazardous Waste, OC = Other Chemical (indicate the chemical name(s):
- CAS number(s):
- Source of release: T = tank, P = piping, D = dispenser, STP = submersible turbine pump, DP = delivery problem, O = other, UNK = Unknown
- Cause of release:
S = spill, O = overflow, POMD = physical or mechanical damage, C = corrosion, IP = installation problem, O = other, UNK = Unknown
- Has release been reported to the Department of Natural Resources? Yes No Release not evident at this time (pending sample analysis)

D. CLOSURES (Check applicable box at right in response to all statements in section D)

Written notification was provided to the local agent 5 days in advance of closure date. Yes No

All local permits were obtained before beginning closure. Yes No NA

UST Form TR-WM-137 or AST Form TR-WM-118 filed by owner with the DATCP indicating closure. Yes No NA

NOTE: TANK INVENTORY FORM TR-WM-137 or TR-WM-118 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE or CHANGE-IN-SERVICE CHECKLIST

D. CLOSURE BY REMOVAL OR IN-PLACE

1. General Requirements	Remover Verified	Inspector Verified	Inspector Not Present	NA
a. Product from piping drained into tank (or other container).	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Piping disconnected from tank and removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. All liquid and residue removed from tank using explosion-proof pumps or hand pumps prior to removing tank from excavation.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
d. All pump motors and suction hoses bonded to tank or otherwise grounded.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
e. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
f. Vent lines left connected until tanks purged.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
g. Tank openings temporarily plugged so vapors exit through vent.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
h. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section E.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

2. Specific Closure-by-Removal Requirements

a. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Tank cleaned before being removed from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. Tank labeled in full compliance with API 1604 after removal but before being moved from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; MONTH/DAY/YEAR OF REMOVAL

d. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. Site security is provided while the excavation is open.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

3. Specific Closure-In-Place Requirements

NOTE: CLOSURES IN-PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION (DATCP) OR LOCAL AGENT.

a. Tank properly cleaned to remove all sludge and residue.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Solid inert material (sand, cyclone boiler slag, or pea gravel recommended) introduced and tank filled.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. Vent line disconnected or removed.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
d. Inventory form filed by owner with DATCP indicating closure in-place.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

E. REPAIR, UPGRADE OR CHANGE-IN-SERVICE

Written notification was provided to the local agent 5 days in advance of service date.

Y N NA

All local permits were obtained before beginning service.

Y N NA

Form TR-WM-137 or 0 TR-WM-118 filed by owner with DATCP indicating change-in-service.

Y N NA

F. METHOD OF VAPOR FREEING OF TANK

Displacement of vapors by 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.

Inert gas using dry ice or liquid carbon dioxide.

Inert gas using CO2 or N2 **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. LEL METERS MAY NOT FUNCTION ACCURATELY. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.**

Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.

Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.

Readings of 10% or less of the lower flammable range (LEL) or <5% oxygen obtained before removing tank from ground.

Tank atmosphere monitored for flammable or combustible vapor levels prior to and during cleaning and cutting.

Calibrate combustible gas indicator and/or oxygen meter prior to use. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank.

G. REMOVER/CLEANER INFORMATION

REMOVER/CLEANER NAME (PRINT): Sustin Robinson REMOVER/CLEANER SIGNATURE: [Signature] CERTIFICATION #: 401548 DATE TANK REMOVED: 6-3-22

I attest that the procedures and information which I have provided as the tank closure contractor are correct and comply with ATCP 93.

Company expected to perform soil contamination assessment: cedar corp 401889

H. INSPECTOR INFORMATION

Jason Karczewski

INSPECTOR NAME (PRINT):

Jason Karczewski

INSPECTOR SIGNATURE

468444

INSPECTOR CERTIFICATION #

DATCP

LPO AGENCY/COMPANY NAME

6610 Richfield

FDID # FOR LOCATION WHERE INSPECTION PERFORMED

(262) 307-6440

INSPECTOR TELEPHONE NUMBER

6/3/22

DATE SIGNED

INSPECTOR NOTES:

Part B – To be completed by environmental professional - Submit original Part B to the WDNR along with a copy of Part A

I. TANK-SYSTEM SITE ASSESSMENT (TSSA)

SITE NAME - *Note: SITE NAME and address MUST MATCH with Part A Section 1.*

Millis Transfer LLC

SITE ADDRESS (Not PO Box) 3001 State HWY 167	<input checked="" type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE	STATE	ZIP
	Richfield	WI	53076

To determine if a TSSA is required, see ATCP 93 and section II part B of *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS*.

If a TSSA is required, then follow the procedures detailed in *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS*

1. Site Information

- a. Has there been a previously documented release at this site? Y N
If yes, provide the DATCP # _____ or DNR BRRT's # _____
- b. Number of active tanks at facility prior to completion of current services: USTs 1 ASTs 0
(NOTE 1: Do not include previously closed systems or system components.)
- c. Excavation/trench dimensions (in feet). (Photos must be provided.)

EXCAVATION/TRENCH #	LENGTH	WIDTH	DEPTH
Tank Bed	34	17	12
Piping	24	4	3

2. Visual Excavation/Trench Inspection (Photos must be provided for "Yes" responses, except item b.)

Do any of the following conditions exist in or about the excavation(s)?

- a. Stained soils: Yes No
- b. Petroleum odor: Yes No
- c. Water In excavation/trench: Yes No
- d. Free product in the excavation/trench: Yes No
- e. Sheen or free product on water: Yes No

3. Geology/Hydrogeology

- a. Depth to groundwater 13 feet
- b. Indicate type of geology² Silty sand

4. Receptors

- a. Water supply well(s) within 250 feet of the facility? Yes No If yes, specify: Potable well on site, specific location unknown
- b. Surface water(s) within 1000 feet of the facility? Yes No If yes, specify: _____

5. Sampling

- a. Follow the procedures detailed in *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS*.
- b. Complete Tables 1 and 2 as appropriate. (Attach chain-of-custody and laboratory analytical reports.)
- c. Attach a detailed map of site features and sample locations.

J. NOTE RELEVANT OBSERVATIONS, SPECIFIC PROBLEMS OR CONCERNS BELOW

Groundwater was encountered in the bottom of the excavation. No base samples were collected. Sidewall samples were collected approximately 12 feet below ground surface, just above the water table. Soil samples S-1 and S-12 had elevated PID readings. The western tank wall was approximately 8 feet from the master pump. Soil sample S-1 was collected approximately 3 feet below the master pump. Soil sample S-12 was collected from the west side wall at approximately 12 feet. Sample S-12 acts as a confirmation sample from beneath soil sample S-1. 1,2,4-Trimethylbenzene was detected in the trip blank at 32J micrograms per kilogram, the result was detected between the laboratory limit of detection and the limit of quantification.

TABLE 1 SOIL FIELD SCREENING & GRO/DRO LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	Sample Location & Soil/Geologic Description	Sample Collection Method				Depth Below Tank/Piping (feet)	Field Screening Result (ppm)	GRO (mg/kg)	DRO (mg/kg)
		Grab	Shelby Tube	Direct Push	Split Spoon				
S-1	East master piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	130.4		
S-2	South satellite piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	0.7		
S-3	West master piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	0.2		
S-4	North satellite piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	0.2		
S-5	Southwest wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.4		
S-6	South wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.3		
S-7	Southeast wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.2		
S-8	Northwest wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.4		
S-9	North wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.5		
S-10	Northeast wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	1.0		
S-11	East wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	1.4		
S-12	West wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	171.1		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

TABLE 2 SOIL LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	BENZENE	TOLUENE	ETHYLBENZENE	MTBE	TRIMETHYL - BENZENES (TOTAL)	XYLENES (TOTAL)	NAPHTHALENE
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
S-1	<17	<17	670	<45	8,200	3,300	<38
S-2	<8.5	<8.5	<11	<23	<22	<13	<19
S-3	<8.6	<8.6	<11	<23	<22	<13	<20
S-4	<8.6	<8.6	<11	<23	<22	<13	<20
S-5	<8.6	<8.7	<11	<23	<22	<13	<20
S-6	<8.4	<8.5	<11	<23	<22	<13	<19
S-7	<8.6	<8.6	<11	<23	<22	<13	<20
S-8	<8.5	<8.5	<11	<23	<22	<13	<19
S-9	<8.9	<8.9	<11	<24	<23	<13	<20
S-10	<8.7	<8.8	<11	<24	<23	<13	<20
S-11	<8.8	<8.9	<11	<24	<23	<13	<20
S-12	<8.6	12JB	1,100	<23	12,500	3,100	<20
Trip Blank	<7.3	<7.4	<9.2	<20	32J	<11	<17

K. TANK-SYSTEM SITE ASSESSMENT INFORMATION

As a tank-system site assessor certified under Wis. Admin. Code section ATCP 93.240, it is my opinion that there is no indication of a release of a regulated substance to the environment.

Sampling at the site indicates there has been a release to the environment. Pursuant to Wis. Admin. Code section ATCP 93.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter ATCP 93 shall immediately report any release of a regulated substance to the Wisconsin Department of Natural Resources. Failure to do so may result in forfeitures of a minimum of \$10 and a maximum of \$5000 for each violation under Wis. Stats. Section 168.26 (5). Each day of continued violation and each tank are treated as separate offenses.

Quin Lenz

TANK-SYSTEM SITE ASSESSOR NAME (PRINT):

TANK-SYSTEM SITE ASSESSOR SIGNATURE

494047

CERTIFICATION NO.

(920) 491 - 9081

TANK-SYSTEM SITE ASSESSOR TELEPHONE NUMBER

6/20/2022

DATE SIGNED

Cedar Corporation

COMPANY NAME

This document can be made available in alternate formats to individuals with disabilities upon request.

Distribution: DATCP DNR Inspector Contractor Owner



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 PO Box 7837 Madison, WI 53707-7837
 (608) 224-4942

FOR OFFICE USE ONLY

 Wis. Admin. Code §ATCP 93.140

UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZARDOUS LIQUID STORAGE TANK REGISTRATION

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m) Wis. Stats.).

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered.

A separate form is needed for each tank. Send each completed form to the agency designated above.

Have you previously registered this tank by submitting a form? Yes No If yes, are you correcting/updating information only? Yes No

This registration applies to a tank piping status that is (check one): Date of status change: 6/3/2022

In Use Abandoned with Water Abandoned with Product
 Newly Installed Closed - Removed Abandoned without Product (empty)
 Temporarily Out of Service - Provide Date: Closed - Filled with Inert Materials Change of Site/Facility Address Only (complete boxes 1.a. and b. below)
 Ownership Change (Indicate new owner name in box 2 - attach deed)

IDENTIFICATION (Please Print)

1. TANK SITE NAME: MILLIS TRANSFER INC COUNTY: WASHINGTON PHONE: () -
 a. CURRENT SITE STREET ADDRESS: 3001 STATE RD 167 W CITY: RICHFIELD STATE: WI ZIP: 53076
 b. PREVIOUS SITE STREET ADDRESS: CITY: TOWN OF: STATE: ZIP:

Fire Dept. providing fire coverage where tank is located: CITY TOWN VILLAGE of: RICHFIELD #6610

2. TANK OWNER LEGAL NAME: MILLIS TRANSFER INC COUNTY: JACKSON PHONE: Check CELL or LAND (715) 299 - 2319
 MAILING ADDRESS: P.O. BOX 550 CITY: BLACK RIVER FALLS STATE: WI ZIP: 54615

3. PROPERTY OWNER NAME (if different from Tank Owner Legal Name #2) COUNTY (if different from County #2)
 PROPERTY OWNER ADDRESS (if different from Site Street Address #1) CITY: TOWN OF: STATE: ZIP:

4. CLASS A NAME: DOB: CERTIFICATION: (Attach certificate)
 5. CLASS B NAME: DOB: CERTIFICATION: (Attach certificate)

SITE ID: FACILITY ID # 412663 CUSTOMER ID #

Tank Capacity (gallons): 15000 Tank Age (age or date installed): Vehicle fueling: Yes No

LAND OWNER TYPE (Refer to back; check one): County State Federal Leased Federal Owned Tribal Nation Municipal Other Government Private

OCCUPANCY TYPE (check one) Refer to back
 Retail Fuel Sales Mercantile/Commercial Bulk Storage Terminal Storage Industrial Residential School Government Fleet
 Agricultural (crop or livestock production) Utility Backup or Emergency Generator Other (specify):

TANK CONSTRUCTION:
 Bare Steel Coated Steel Steel - Fiberglass Reinforced Plastic Composite
 Fiberglass Unknown Other (specify): Lined (date):
 Overfill Protection? Yes No
 Spill Containment? Yes No
 Tank Double Walled? Yes No

TANK CATHODIC PROTECTION: Sacrificial Anodes Impressed Current N/A

TANK LEAK DETECTION METHOD: Automatic tank gauging Interstitial monitoring Electronic Yes No Statistical Inventory Reconciliation (SIR)
 Manual tank gauging (only for tanks of 1,000 gallons or less) Unknown

PIPING CONSTRUCTION: Single Wall Double Wall:
 Bare Steel Coated Steel Fiberglass Flexible Copper Unknown N/A Other:

PIPING CATHODIC PROTECTION: Sacrificial Anodes Impressed Current N/A

PRIMARY PIPING SYSTEM TYPE: Pressurized piping with A. Pump auto shutoff - ELLD B. Flow restrictor - MLLD Unknown
 Suction piping with check valve at tank Suction piping with check valve at pump and inspectable Not needed if waste oil

PIPING LEAK DETECTION METHOD: Interstitial monitoring Electronic Yes No Sump or cable sensor Yes No
 Tightness testing Electronic line monitor - ELLD SIR Not required Unknown

TANK CONTENTS Current, or previous product (if tank now empty) (* = NOT PECFA eligible) Leaded Unleaded Gas-ethanol blend: ___ % ethanol Diesel
 Bio-Diesel: ___ % Hazardous Waste/Interface* Kerosene Fuel Oil Premix New Oil New oil - Flash point less than 200°F
 Waste/Used Motor Oil Used for Heating Aviation Empty* Sand/Gravel/Slurry* Unknown
 Other (specify): Chemical* Name: CAS#

Has a site assessment been completed? (see reverse side for details) Yes No

TANK OWNER LEGAL NAME (please print): Christopher Schwenke TANK OWNER E-MAIL:

TANK OWNER SIGNATURE (Note: By signing, signer is accepting legal and financial responsibility for the storage tank system.): DATE:

Note: Refer to comments on reverse side of form.



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 Storage Tank Regulation, PO Box 7837, Madison, WI 53707-7837
 Phone: (608) 224-4942

Wis. Admin. Code §ATCP 93.115
 §ATCP 93.350

ATCP 93 NOTIFICATION RECORD

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m), Wis. Stats.)

TO: *Darren Leone*

OFFICE LOCATION: *DATCP*

(Refer to https://datcp.wi.gov/Pages/Programs_Services/StorageTankContacts.aspx for a jurisdiction's authorized agent/department.)

Note: Only the notification form is required for non-flammable, non-combustible, hazardous liquid, or CERCLA tanks greater than or equal to 5,000 gallon capacity that are under the direct supervision of a qualified engineer. A plan review is not required. (ATCP 93.350(2)(b)).

LOCATION / IDENTIFICATION

SITE NAME <i>Millis Transfer Inc</i>		FACILITY NUMBER <i>412663</i>	FIRE DEPT. PROVIDING FIRE PROTECTION COVERAGE <i>Richfield # 6610</i>			
SITE STREET ADDRESS <i>3001 State Road 167 W</i>		<input type="checkbox"/> CITY	<input type="checkbox"/> TOWN	<input checked="" type="checkbox"/> VILLAGE	STATE <i>WI</i>	ZIP <i>53076</i>
OWNER NAME <i>Millis Transfer Inc</i>		PHONE NUMBER <i>() -</i>	TANK OWNER EMAIL			
OWNER STREET ADDRESS <i>P.O. Box 550</i>		<input type="checkbox"/> CITY	<input type="checkbox"/> TOWN	<input type="checkbox"/> VILLAGE	STATE <i>WI</i>	ZIP <i>54615</i>
CONTRACTOR NAME <i>ADVANCED TANK SERVICE, INC</i>		PHONE NUMBER <i>(715) 831 - 8484</i>	CELL NUMBER <i>(715) 579 - 8324</i>	EMAIL <i>molson@adv-tank.com</i>		
STREET ADDRESS <i>P.O. BOX 1072</i>		<input type="checkbox"/> CITY	<input type="checkbox"/> TOWN	<input type="checkbox"/> VILLAGE	STATE <i>WI</i>	ZIP <i>54702</i>
DATE WORK IS TO BEGIN	DATE/TIME REQUESTED FOR TANK INSPECTION <i>6/3 1:30pm</i>	ATCP 93 CERTIFIED INSTALLER SUPERVISOR OR QUALIFIED ENGINEER <i>Justin Peloguin</i>				

PROJECT WILL INVOLVE: (Check all that apply) Plan Approval No.: Approval Date:

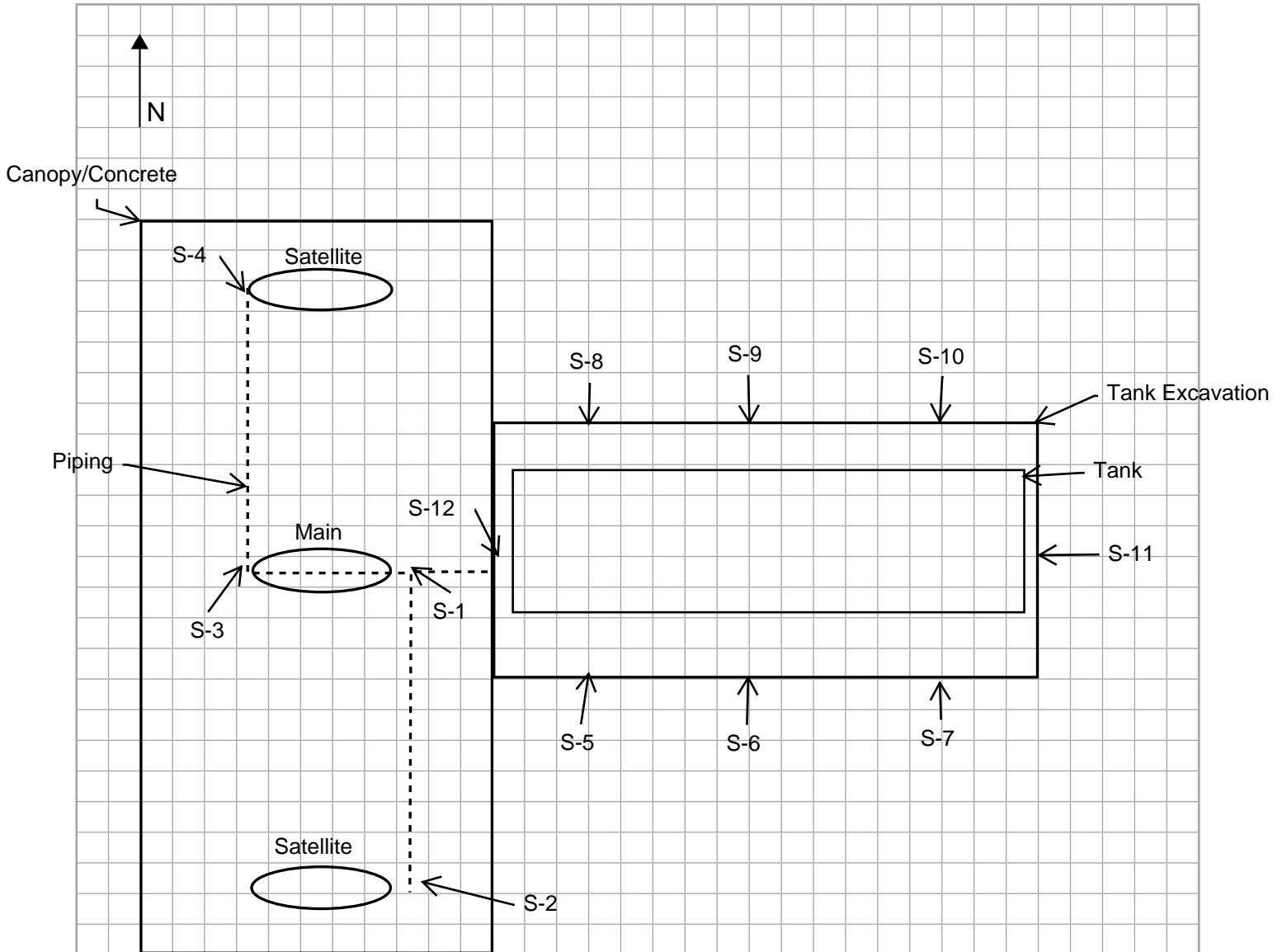
	UST	AST	No. of Tanks	Comments:
Tank Installation	<input type="checkbox"/>	<input type="checkbox"/>		<i>15K DSL</i> <i>TSSA: Cedar Corporation</i>
Dispenser POS Conversion	<input type="checkbox"/>	<input type="checkbox"/>		
Piping Installation or Upgrade	<input type="checkbox"/>	<input type="checkbox"/>		
Leak Detection Upgrade	<input type="checkbox"/>	<input type="checkbox"/>		
Spill or Overfill Protection	<input type="checkbox"/>	<input type="checkbox"/>		
Cathodic Protection or Interior Lining	<input type="checkbox"/>	<input type="checkbox"/>		
CERCLA Chemical Tank(s) Only ¹	<input type="checkbox"/>	<input type="checkbox"/>		
Tank Closure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>1</i>	
Alternative Fuel Storage Tank Installation ^{2,3,5} (see footnotes below)	<input type="checkbox"/>	<input type="checkbox"/>		
Alternative Fuel Storage Tank Conversion ^{4,5} (see footnotes below)	<input type="checkbox"/>	<input type="checkbox"/>		

¹Send Notice to DATCP (see address above). Installation inspection is not required if construction/installation is supervised by a qualified engineer.
²For LPO installations send notice to both the assigned LPO and DATCP General Inspection Inspector. DATCP General Inspection Inspector will be at the final inspection only. Alternative fuel storage tank systems shall not begin operation until the DATCP General Inspection Inspector has granted approval.
³For DATCP installation inspections send notice to only the assigned DATCP Installation Inspector. Alternative fuel storage tank systems shall not begin operation until the DATCP general inspector has granted approval.
⁴Send notice to only the DATCP General Inspection Inspector.
⁵See Conditional Approval letter and Notification email for Installation and general inspector information.

For USTs: If an Owner/Operator intends to begin operation immediately after the final inspection, they shall prepare and submit the documentation listed below at least 15 days prior to the final inspection:

- A TR-WM-137 Underground Flammable/Combustible Liquid Storage Tank Registration.
- A Wisconsin Operator Training Designation form.
- Affidavit of Financial Responsibility, certificate of insurance, and site schedule of covered locations and storage tanks.

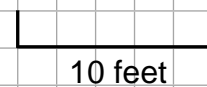
Figure 1 - Detailed Site Map



Notes:

- Tank size ~ 9'x32'.
- Tank excavation ~ 34'x17'.
- Piping samples collected at 3' below ground surface (bgs).
- Tank samples collected at 12' bgs.
- No base samples due to groundwater encountered at 13' bgs.

Scale



Client Name:
Wisconsin Department of Natural Resources

Site Location:
3001 State Highway 167, Richfield WI

Project No.
00590-0009

Photo No.
1

Date:
6/3/2022

Direction Photo Taken:

Northwest

Description:

View of the tank location prior to removal.



Photo No.
2

Date:
6/3/2022

Direction Photo Taken:

East

Description:

View of the tank during removal.



Photo No. 3	Date: 6/3/2022
Direction Photo Taken: Northwest	
Description: 15,000-gallon tank removed from the Site.	



Photo No. 4	Date: 6/3/2022
Direction Photo Taken: West	
Description: Area of the tank excavation.	



Photo No. 5	Date: 6/3/2022
Direction Photo Taken: South	
Description: View of the south sidewall of the tank excavation.	



Photo No. 6	Date: 6/3/2022
Direction Photo Taken: Southwest	
Description: View of the west sidewall of the tank excavation	



Photo No. 7	Date: 6/3/2022
Direction Photo Taken: Northwest	
Description: View of the north sidewall of the tank excavation.	



Photo No. 8	Date: 6/3/2022
Direction Photo Taken: Northeast	
Description: View of the east sidewall of the tank excavation.	



Photo No. 9	Date: 6/3/2022
Direction Photo Taken: North	
Description: View of the pipe excavation running from the main to the northern satellite.	



Photo No. 10	Date: 6/3/2022
Direction Photo Taken: North	
Description: View of the pipe excavation running from the main to the northern satellite.	





STRAIGHT BILL OF LADING

GMO- 4866

B	_____	_____
I	Advanced Tank Service #6497	_____
L	Pick-up 4 drums diesel sludge	_____
L	East Side of Bldg.	_____
T	_____	_____
O	Phone number: _____	Phone number: _____

STANDARD FORM

The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on route to said destination. It is mutually agree, as to each carrier of all or any of said property over all or any portion of said route to destination, as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

Route: BEST WAY

Delivery Carrier: OSI Environmental, Inc. US DOT Hazmat Reg. Number: MNT 280011586

Alternate Carrier: US DOT Hazmat Reg. Number: _____

Number of Packages HM	Description of articles	ERG
1	RQ, UN1203, Flammable Liquid, N.O.S. 3 PG II Gasoline for Recycle APPROXIMATE GALLONS: _____	128

Designated Facility OSI ENVIRONMENTAL, 912 TESCH CT., WAUKESHA, WI 53186

<input type="checkbox"/>	Specialty Product for Recycle Mineral Oil PG III (NON PCB: _____ PPM) APPROXIMATE GALLONS: _____	128
--------------------------	--	-----

Designated Facility OSI ENVIRONMENTAL, 912 TESCH CT., WAUKESHA, WI 53186

<input type="checkbox"/>	Specialty Product for Recycle Mineral Oil PG III (NON PCB: _____ PPM) APPROXIMATE GALLONS: _____	128
--------------------------	--	-----

Designated Facility OSI ENVIRONMENTAL, 912 TESCH CT., WAUKESHA, WI 53186

4	RQ, UN1202, Fuel Oil, Combustible Liquid PG III Surplus Fuel for Recycling APPROXIMATE GALLONS: <u>220 DIESEL SLUDGE</u>	128
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Designated Facility OSI ENVIRONMENTAL, 912 TESCH CT., WAUKESHA, WI 53186

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and is in proper condition for transportation according to the applicable regulations of The Department of Transportation.

Placards Required: None Placards Supplied: NO - Furnished By Carrier

Shipper Signature: BOB Miller Carrier Signature: _____

Date: 6-13-22 Received By: Chris Mark Date: 6/13/22

CUSTOMER PROJECT NUMBER: _____

UNIT #: 1005

OSI TANK NUMBER: _____

OSI Environmental, Inc. 800-732-5667
912 Tesch Court EPA # WIR000147397 WDNR #14740
Waukesha, WI 53186

EMERGENCY RESPONSE TELEPHONE NUMBER: (800)-732-5667

SHIPPER COPY

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-217596-1
Client Project/Site: Richfield Tank Pull

For:
Cedar Corporation
1695 Bellevue Street
Green Bay, Wisconsin 54311

Attn: Quin Lenz



Authorized for release by:
6/20/2022 7:46:03 AM

Sandie Fredrick, Project Manager II
(920)261-1660
Sandra.Fredrick@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Job ID: 500-217596-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-217596-1**

Comments

No additional comments.

Receipt

The samples were received on 6/4/2022 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

Method 8260B: The following sample was diluted due to the abundance of non-target analytes: S-1 (500-217596-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-1

Lab Sample ID: 500-217596-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	670		29	21	ug/Kg	100	✳	8260B	Total/NA
1,2,4-Trimethylbenzene	5700		110	41	ug/Kg	100	✳	8260B	Total/NA
1,3,5-Trimethylbenzene	2500		110	44	ug/Kg	100	✳	8260B	Total/NA
Xylenes, Total	3300		57	25	ug/Kg	100	✳	8260B	Total/NA

Client Sample ID: S-2

Lab Sample ID: 500-217596-2

No Detections.

Client Sample ID: S-3

Lab Sample ID: 500-217596-3

No Detections.

Client Sample ID: S-4

Lab Sample ID: 500-217596-4

No Detections.

Client Sample ID: S-5

Lab Sample ID: 500-217596-5

No Detections.

Client Sample ID: S-6

Lab Sample ID: 500-217596-6

No Detections.

Client Sample ID: S-7

Lab Sample ID: 500-217596-7

No Detections.

Client Sample ID: S-8

Lab Sample ID: 500-217596-8

No Detections.

Client Sample ID: S-9

Lab Sample ID: 500-217596-9

No Detections.

Client Sample ID: S-10

Lab Sample ID: 500-217596-10

No Detections.

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

No Detections.

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1100		15	11	ug/Kg	50	✳	8260B	Total/NA
Toluene	12	J B	15	8.7	ug/Kg	50	✳	8260B	Total/NA
1,2,4-Trimethylbenzene	9400		59	21	ug/Kg	50	✳	8260B	Total/NA
1,3,5-Trimethylbenzene	3100		59	23	ug/Kg	50	✳	8260B	Total/NA
Xylenes, Total	3100		30	13	ug/Kg	50	✳	8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-217596-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	32	J	50	18	ug/Kg	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Method Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-217596-1	S-1	Solid	06/03/22 12:40	06/04/22 09:15
500-217596-2	S-2	Solid	06/03/22 12:45	06/04/22 09:15
500-217596-3	S-3	Solid	06/03/22 12:50	06/04/22 09:15
500-217596-4	S-4	Solid	06/03/22 12:55	06/04/22 09:15
500-217596-5	S-5	Solid	06/03/22 13:00	06/04/22 09:15
500-217596-6	S-6	Solid	06/03/22 13:03	06/04/22 09:15
500-217596-7	S-7	Solid	06/03/22 13:06	06/04/22 09:15
500-217596-8	S-8	Solid	06/03/22 13:10	06/04/22 09:15
500-217596-9	S-9	Solid	06/03/22 13:15	06/04/22 09:15
500-217596-10	S-10	Solid	06/03/22 13:20	06/04/22 09:15
500-217596-11	S-11	Solid	06/03/22 13:25	06/04/22 09:15
500-217596-12	S-12	Solid	06/03/22 13:30	06/04/22 09:15
500-217596-13	Trip Blank	Solid	06/03/22 10:00	06/04/22 09:15

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-1

Lab Sample ID: 500-217596-1

Date Collected: 06/03/22 12:40

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		29	17	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Ethylbenzene	670		29	21	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Methyl tert-butyl ether	<45		110	45	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Naphthalene	<38		110	38	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Toluene	<17		29	17	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
1,2,4-Trimethylbenzene	5700		110	41	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
1,3,5-Trimethylbenzene	2500		110	44	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Xylenes, Total	3300		57	25	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				06/03/22 12:40	06/16/22 12:08	100
Dibromofluoromethane (Surr)	89		75 - 120				06/03/22 12:40	06/16/22 12:08	100
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 12:40	06/16/22 12:08	100
Toluene-d8 (Surr)	96		75 - 120				06/03/22 12:40	06/16/22 12:08	100

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-2

Lab Sample ID: 500-217596-2

Date Collected: 06/03/22 12:45

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.5		15	8.5	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Naphthalene	<19		58	19	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Toluene	<8.5		15	8.5	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 12:45	06/16/22 12:33	50
Dibromofluoromethane (Surr)	89		75 - 120				06/03/22 12:45	06/16/22 12:33	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126				06/03/22 12:45	06/16/22 12:33	50
Toluene-d8 (Surr)	95		75 - 120				06/03/22 12:45	06/16/22 12:33	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-3

Lab Sample ID: 500-217596-3

Date Collected: 06/03/22 12:50

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Toluene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 12:50	06/16/22 12:59	50
Dibromofluoromethane (Surr)	87		75 - 120				06/03/22 12:50	06/16/22 12:59	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126				06/03/22 12:50	06/16/22 12:59	50
Toluene-d8 (Surr)	98		75 - 120				06/03/22 12:50	06/16/22 12:59	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-4

Lab Sample ID: 500-217596-4

Date Collected: 06/03/22 12:55

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Toluene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 12:55	06/16/22 13:25	50
Dibromofluoromethane (Surr)	86		75 - 120				06/03/22 12:55	06/16/22 13:25	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 12:55	06/16/22 13:25	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 12:55	06/16/22 13:25	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-5

Lab Sample ID: 500-217596-5

Date Collected: 06/03/22 13:00

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Toluene	<8.7		15	8.7	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				06/03/22 13:00	06/16/22 13:51	50
Dibromofluoromethane (Surr)	87		75 - 120				06/03/22 13:00	06/16/22 13:51	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 13:00	06/16/22 13:51	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 13:00	06/16/22 13:51	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-6

Lab Sample ID: 500-217596-6

Date Collected: 06/03/22 13:03

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.4		14	8.4	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Ethylbenzene	<11		14	11	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Naphthalene	<19		58	19	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Toluene	<8.5		14	8.5	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124				06/03/22 13:03	06/16/22 14:17	50
Dibromofluoromethane (Surr)	85		75 - 120				06/03/22 13:03	06/16/22 14:17	50
1,2-Dichloroethane-d4 (Surr)	83		75 - 126				06/03/22 13:03	06/16/22 14:17	50
Toluene-d8 (Surr)	97		75 - 120				06/03/22 13:03	06/16/22 14:17	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-7

Lab Sample ID: 500-217596-7

Date Collected: 06/03/22 13:06

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Toluene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				06/03/22 13:06	06/16/22 14:42	50
Dibromofluoromethane (Surr)	87		75 - 120				06/03/22 13:06	06/16/22 14:42	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126				06/03/22 13:06	06/16/22 14:42	50
Toluene-d8 (Surr)	97		75 - 120				06/03/22 13:06	06/16/22 14:42	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-8

Lab Sample ID: 500-217596-8

Date Collected: 06/03/22 13:10

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.5		14	8.5	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Ethylbenzene	<11		14	11	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Naphthalene	<19		58	19	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Toluene	<8.5		14	8.5	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 13:10	06/16/22 15:08	50
Dibromofluoromethane (Surr)	89		75 - 120				06/03/22 13:10	06/16/22 15:08	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126				06/03/22 13:10	06/16/22 15:08	50
Toluene-d8 (Surr)	98		75 - 120				06/03/22 13:10	06/16/22 15:08	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-9

Lab Sample ID: 500-217596-9

Date Collected: 06/03/22 13:15

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 90.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.9		15	8.9	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Naphthalene	<20		61	20	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Toluene	<8.9		15	8.9	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				06/03/22 13:15	06/16/22 15:33	50
Dibromofluoromethane (Surr)	86		75 - 120				06/03/22 13:15	06/16/22 15:33	50
1,2-Dichloroethane-d4 (Surr)	83		75 - 126				06/03/22 13:15	06/16/22 15:33	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 13:15	06/16/22 15:33	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-10

Lab Sample ID: 500-217596-10

Date Collected: 06/03/22 13:20

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.7		15	8.7	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Naphthalene	<20		60	20	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Toluene	<8.8		15	8.8	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
1,2,4-Trimethylbenzene	<21		60	21	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124	06/03/22 13:20	06/16/22 15:58	50
Dibromofluoromethane (Surr)	84		75 - 120	06/03/22 13:20	06/16/22 15:58	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126	06/03/22 13:20	06/16/22 15:58	50
Toluene-d8 (Surr)	99		75 - 120	06/03/22 13:20	06/16/22 15:58	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

Date Collected: 06/03/22 13:25

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 90.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.8		15	8.8	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Naphthalene	<20		60	20	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Toluene	<8.9		15	8.9	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
1,2,4-Trimethylbenzene	<22		60	22	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124	06/03/22 13:25	06/16/22 16:23	50
Dibromofluoromethane (Surr)	89		75 - 120	06/03/22 13:25	06/16/22 16:23	50
1,2-Dichloroethane-d4 (Surr)	87		75 - 126	06/03/22 13:25	06/16/22 16:23	50
Toluene-d8 (Surr)	96		75 - 120	06/03/22 13:25	06/16/22 16:23	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Date Collected: 06/03/22 13:30

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Ethylbenzene	1100		15	11	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Toluene	12	J B	15	8.7	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
1,2,4-Trimethylbenzene	9400		59	21	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
1,3,5-Trimethylbenzene	3100		59	23	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Xylenes, Total	3100		30	13	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124				06/03/22 13:30	06/16/22 16:50	50
Dibromofluoromethane (Surr)	88		75 - 120				06/03/22 13:30	06/16/22 16:50	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126				06/03/22 13:30	06/16/22 16:50	50
Toluene-d8 (Surr)	99		75 - 120				06/03/22 13:30	06/16/22 16:50	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-217596-13

Date Collected: 06/03/22 10:00

Matrix: Solid

Date Received: 06/04/22 09:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Naphthalene	<17		50	17	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Toluene	<7.4		13	7.4	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
1,2,4-Trimethylbenzene	32	J	50	18	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Xylenes, Total	<11		25	11	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124				06/03/22 10:00	06/16/22 17:17	50
Dibromofluoromethane (Surr)	86		75 - 120				06/03/22 10:00	06/16/22 17:17	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 10:00	06/16/22 17:17	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 10:00	06/16/22 17:17	50

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

GC/MS VOA

Prep Batch: 661137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-1	S-1	Total/NA	Solid	5035	
500-217596-2	S-2	Total/NA	Solid	5035	
500-217596-3	S-3	Total/NA	Solid	5035	
500-217596-4	S-4	Total/NA	Solid	5035	
500-217596-5	S-5	Total/NA	Solid	5035	
500-217596-6	S-6	Total/NA	Solid	5035	
500-217596-7	S-7	Total/NA	Solid	5035	
500-217596-8	S-8	Total/NA	Solid	5035	
500-217596-9	S-9	Total/NA	Solid	5035	
500-217596-10	S-10	Total/NA	Solid	5035	
500-217596-11	S-11	Total/NA	Solid	5035	
500-217596-12	S-12	Total/NA	Solid	5035	
500-217596-13	Trip Blank	Total/NA	Solid	5035	
LB3 500-661137/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-661137/22-A	Lab Control Sample	Total/NA	Solid	5035	
500-217596-2 MS	S-2	Total/NA	Solid	5035	
500-217596-2 MSD	S-2	Total/NA	Solid	5035	

Analysis Batch: 661273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-661137/21-A	Method Blank	Total/NA	Solid	8260B	661137
MB 500-661273/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-661137/22-A	Lab Control Sample	Total/NA	Solid	8260B	661137
LCS 500-661273/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 661438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-1	S-1	Total/NA	Solid	8260B	661137
500-217596-2	S-2	Total/NA	Solid	8260B	661137
500-217596-3	S-3	Total/NA	Solid	8260B	661137
500-217596-4	S-4	Total/NA	Solid	8260B	661137
500-217596-5	S-5	Total/NA	Solid	8260B	661137
500-217596-6	S-6	Total/NA	Solid	8260B	661137
500-217596-7	S-7	Total/NA	Solid	8260B	661137
500-217596-8	S-8	Total/NA	Solid	8260B	661137
500-217596-9	S-9	Total/NA	Solid	8260B	661137
500-217596-10	S-10	Total/NA	Solid	8260B	661137
500-217596-11	S-11	Total/NA	Solid	8260B	661137
500-217596-12	S-12	Total/NA	Solid	8260B	661137
500-217596-13	Trip Blank	Total/NA	Solid	8260B	661137
MB 500-661438/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-661438/4	Lab Control Sample	Total/NA	Solid	8260B	
500-217596-2 MS	S-2	Total/NA	Solid	8260B	661137
500-217596-2 MSD	S-2	Total/NA	Solid	8260B	661137

General Chemistry

Analysis Batch: 659958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-1	S-1	Total/NA	Solid	Moisture	
500-217596-2	S-2	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

General Chemistry (Continued)

Analysis Batch: 659958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-3	S-3	Total/NA	Solid	Moisture	
500-217596-4	S-4	Total/NA	Solid	Moisture	
500-217596-5	S-5	Total/NA	Solid	Moisture	
500-217596-6	S-6	Total/NA	Solid	Moisture	
500-217596-7	S-7	Total/NA	Solid	Moisture	
500-217596-8	S-8	Total/NA	Solid	Moisture	
500-217596-9	S-9	Total/NA	Solid	Moisture	
500-217596-10	S-10	Total/NA	Solid	Moisture	
500-217596-11	S-11	Total/NA	Solid	Moisture	
500-217596-12	S-12	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-217596-1	S-1	95	89	85	96
500-217596-2	S-2	96	89	84	95
500-217596-2 MS	S-2	96	90	83	99
500-217596-2 MSD	S-2	96	88	82	99
500-217596-3	S-3	96	87	84	98
500-217596-4	S-4	96	86	85	96
500-217596-5	S-5	98	87	85	96
500-217596-6	S-6	97	85	83	97
500-217596-7	S-7	98	87	84	97
500-217596-8	S-8	96	89	86	98
500-217596-9	S-9	98	86	83	96
500-217596-10	S-10	97	84	84	99
500-217596-11	S-11	100	89	87	96
500-217596-12	S-12	101	88	86	99
500-217596-13	Trip Blank	97	86	85	96
LB3 500-661137/21-A	Method Blank	108	102	107	97
LCS 500-661137/22-A	Lab Control Sample	103	108	110	98
LCS 500-661273/4	Lab Control Sample	109	105	110	111
LCS 500-661438/4	Lab Control Sample	90	91	81	98
MB 500-661273/6	Method Blank	112	106	107	98
MB 500-661438/6	Method Blank	97	86	84	98

Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- DCA = 1,2-Dichloroethane-d4 (Surr)
- TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-661137/21-A
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661137

Analyte	LB3	LB3	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<7.3		13	7.3	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Naphthalene	<17		50	17	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Toluene	9.92	J	13	7.4	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Xylenes, Total	<11		25	11	ug/Kg		06/14/22 11:30	06/15/22 15:59	50

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	108		72 - 124	06/14/22 11:30	06/15/22 15:59	50
Dibromofluoromethane (Surr)	102		75 - 120	06/14/22 11:30	06/15/22 15:59	50
1,2-Dichloroethane-d4 (Surr)	107		75 - 126	06/14/22 11:30	06/15/22 15:59	50
Toluene-d8 (Surr)	97		75 - 120	06/14/22 11:30	06/15/22 15:59	50

Lab Sample ID: LCS 500-661137/22-A
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661137

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	2500	2570		ug/Kg		103	70 - 120
Ethylbenzene	2500	2540		ug/Kg		101	70 - 123
Methyl tert-butyl ether	2500	2870		ug/Kg		115	55 - 123
Naphthalene	2500	3400		ug/Kg		136	53 - 144
Toluene	2500	2440		ug/Kg		98	70 - 125
1,2,4-Trimethylbenzene	2500	2590		ug/Kg		103	70 - 123
1,3,5-Trimethylbenzene	2500	2650		ug/Kg		106	70 - 123
Xylenes, Total	5000	5000		ug/Kg		100	70 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		72 - 124
Dibromofluoromethane (Surr)	108		75 - 120
1,2-Dichloroethane-d4 (Surr)	110		75 - 126
Toluene-d8 (Surr)	98		75 - 120

Lab Sample ID: 500-217596-2 MS
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 661137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Benzene	<8.5		2900	2680		ug/Kg	⊛	92	70 - 120
Ethylbenzene	<11		2900	2940		ug/Kg	⊛	101	70 - 123
Methyl tert-butyl ether	<23		2900	2310		ug/Kg	⊛	80	55 - 123
Naphthalene	<19		2900	2370		ug/Kg	⊛	82	53 - 144
Toluene	<8.5		2900	2790		ug/Kg	⊛	96	70 - 125
1,2,4-Trimethylbenzene	<21		2900	2930		ug/Kg	⊛	101	70 - 123
1,3,5-Trimethylbenzene	<22		2900	3060		ug/Kg	⊛	105	70 - 123
Xylenes, Total	<13		5800	5690		ug/Kg	⊛	98	70 - 125

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QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane (Surr)	90		75 - 120
1,2-Dichloroethane-d4 (Surr)	83		75 - 126
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: 500-217596-2 MSD
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 661137

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Benzene	<8.5		2900	2450		ug/Kg	⊛	85	70 - 120	9	30	
Ethylbenzene	<11		2900	2720		ug/Kg	⊛	94	70 - 123	8	30	
Methyl tert-butyl ether	<23		2900	2120		ug/Kg	⊛	73	55 - 123	9	30	
Naphthalene	<19		2900	2630		ug/Kg	⊛	91	53 - 144	10	30	
Toluene	<8.5		2900	2640		ug/Kg	⊛	91	70 - 125	6	30	
1,2,4-Trimethylbenzene	<21		2900	2720		ug/Kg	⊛	94	70 - 123	7	30	
1,3,5-Trimethylbenzene	<22		2900	2830		ug/Kg	⊛	98	70 - 123	8	30	
Xylenes, Total	<13		5800	5250		ug/Kg	⊛	90	70 - 125	8	30	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane (Surr)	88		75 - 120
1,2-Dichloroethane-d4 (Surr)	82		75 - 126
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: MB 500-661273/6
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.25	0.15	ug/Kg			06/15/22 12:46	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			06/15/22 12:46	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			06/15/22 12:46	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			06/15/22 12:46	1
Toluene	<0.15		0.25	0.15	ug/Kg			06/15/22 12:46	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			06/15/22 12:46	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			06/15/22 12:46	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			06/15/22 12:46	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	112		72 - 124		06/15/22 12:46	1
Dibromofluoromethane (Surr)	106		75 - 120		06/15/22 12:46	1
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		06/15/22 12:46	1
Toluene-d8 (Surr)	98		75 - 120		06/15/22 12:46	1

Lab Sample ID: LCS 500-661273/4
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	50.0	46.9		ug/Kg		94	70 - 120

Euromins Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-661273/4
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	49.6		ug/Kg		99	70 - 123
Methyl tert-butyl ether	50.0	45.4		ug/Kg		91	55 - 123
Naphthalene	50.0	61.1		ug/Kg		122	53 - 144
Toluene	50.0	49.4		ug/Kg		99	70 - 125
1,2,4-Trimethylbenzene	50.0	52.0		ug/Kg		104	70 - 123
1,3,5-Trimethylbenzene	50.0	54.1		ug/Kg		108	70 - 123
Xylenes, Total	100	97.3		ug/Kg		97	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		72 - 124
Dibromofluoromethane (Surr)	105		75 - 120
1,2-Dichloroethane-d4 (Surr)	110		75 - 126
Toluene-d8 (Surr)	111		75 - 120

Lab Sample ID: MB 500-661438/6
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			06/16/22 11:41	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			06/16/22 11:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			06/16/22 11:41	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			06/16/22 11:41	1
Toluene	<0.15		0.25	0.15	ug/Kg			06/16/22 11:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			06/16/22 11:41	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			06/16/22 11:41	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			06/16/22 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124		06/16/22 11:41	1
Dibromofluoromethane (Surr)	86		75 - 120		06/16/22 11:41	1
1,2-Dichloroethane-d4 (Surr)	84		75 - 126		06/16/22 11:41	1
Toluene-d8 (Surr)	98		75 - 120		06/16/22 11:41	1

Lab Sample ID: LCS 500-661438/4
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	54.3		ug/Kg		109	70 - 120
Ethylbenzene	50.0	60.0		ug/Kg		120	70 - 123
Methyl tert-butyl ether	50.0	46.0		ug/Kg		92	55 - 123
Naphthalene	50.0	48.3		ug/Kg		97	53 - 144
Toluene	50.0	56.1		ug/Kg		112	70 - 125
1,2,4-Trimethylbenzene	50.0	59.1		ug/Kg		118	70 - 123
1,3,5-Trimethylbenzene	50.0	61.4		ug/Kg		123	70 - 123
Xylenes, Total	100	117		ug/Kg		117	70 - 125

QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-661438/4

Matrix: Solid

Analysis Batch: 661438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		72 - 124
Dibromofluoromethane (Surr)	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	81		75 - 126
Toluene-d8 (Surr)	98		75 - 120

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Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-1
Date Collected: 06/03/22 12:40
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-1
Date Collected: 06/03/22 12:40
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-1
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:40	WRE	TAL CHI
Total/NA	Analysis	8260B		100	661438	06/16/22 12:08	W1T	TAL CHI

Client Sample ID: S-2
Date Collected: 06/03/22 12:45
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-2
Date Collected: 06/03/22 12:45
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-2
Matrix: Solid
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 12:33	W1T	TAL CHI

Client Sample ID: S-3
Date Collected: 06/03/22 12:50
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-3
Date Collected: 06/03/22 12:50
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-3
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 12:59	W1T	TAL CHI

Client Sample ID: S-4
Date Collected: 06/03/22 12:55
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Eurofins Chicago

Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-4

Date Collected: 06/03/22 12:55

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-4

Matrix: Solid

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 13:25	W1T	TAL CHI

Client Sample ID: S-5

Date Collected: 06/03/22 13:00

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-5

Date Collected: 06/03/22 13:00

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-5

Matrix: Solid

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 13:51	W1T	TAL CHI

Client Sample ID: S-6

Date Collected: 06/03/22 13:03

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-6

Date Collected: 06/03/22 13:03

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-6

Matrix: Solid

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:03	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 14:17	W1T	TAL CHI

Client Sample ID: S-7

Date Collected: 06/03/22 13:06

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-7

Date Collected: 06/03/22 13:06

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-7

Matrix: Solid

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:06	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 14:42	W1T	TAL CHI

Client Sample ID: S-8

Date Collected: 06/03/22 13:10

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-8

Date Collected: 06/03/22 13:10

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-8

Matrix: Solid

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 15:08	W1T	TAL CHI

Client Sample ID: S-9

Date Collected: 06/03/22 13:15

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-9

Date Collected: 06/03/22 13:15

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-9

Matrix: Solid

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 15:33	W1T	TAL CHI

Client Sample ID: S-10

Date Collected: 06/03/22 13:20

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-10

Lab Sample ID: 500-217596-10

Date Collected: 06/03/22 13:20

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 15:58	W1T	TAL CHI

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

Date Collected: 06/03/22 13:25

Matrix: Solid

Date Received: 06/04/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

Date Collected: 06/03/22 13:25

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 16:23	W1T	TAL CHI

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Date Collected: 06/03/22 13:30

Matrix: Solid

Date Received: 06/04/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Date Collected: 06/03/22 13:30

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 16:50	W1T	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-217596-13

Date Collected: 06/03/22 10:00

Matrix: Solid

Date Received: 06/04/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 10:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 17:17	W1T	TAL CHI

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22


- 1
- 2
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- 15

Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins E v i r o m o n i t o r i n g
 Amer

Client Information		Sampler <u>Quin Lenz</u>		Lab PM Fredrick Sandie		Carrier Tracking No(s) <u>5776 05978336</u>		COC No 500-101813-44117 2	
Client Contact: Quin Lenz		Phone <u>(920) 309-4197</u>		E-Mail Sandra.Fredrick@et.eurofinsus.com		State of Origin <u>WI</u>		Page Page 1 <u>1 of 2</u>	
Company Cedar Corporation		PWS D		Analysis Requested				Job # <u>500-217596</u>	
Address 1695 Bellevue Street		Due Date Requested <u>Standard</u>		 500-217596 COC				Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaI-SO4 Q Na2SO3 F MeOH S H2SO4 G Amchlor T TSP Dodeca hydrate H Ascorbic Acid U Acetone I Ice V MCAA J DI Water W pH 4-5 K EDTA Y Tizma L EDA Z other (specify) Other:	
City Green Bay		TAT Requested (days) <u>Standard</u>							
State Zip WI 54311		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone 715-235-9081(Tel)		PC #: Purchase Order not required							
Email quin.lenz@cedarcorp.com		VO #:							
Project Name RICHFIELD TANK PULL		Project # 50006556		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Total Number of Containers	
Site		SSOW#		8260B - PYOC-NAP					
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, D=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Special Instructions/Note	
				Preservation Code:					
1	S-1	6/3/22	1240	G	Solid		X		
2	S-2		1245		Solid		X		
3	S-3		1250		Solid		X		
4	S-4		1255		Solid		X		
5	S-5		1300		Solid		X		
6	S-6		1303		Solid		X		
7	S-7		1306		Solid		X		
8	S-8		1310				X		
9	S-9		1315				X		
10	S-10		1320				X		
11	S-11		1325				X		
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date		Time		Method of Shipment:			
Relinquished by <u>[Signature]</u>		Date/Time <u>6/3/22 1535</u>		Company <u>Cedar</u>		Received by <u>Stephanie Hernandez</u>		Date/Time <u>6/14/22 0915</u>	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <u>43-5H 4.0+3 b</u>					

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-217596-1

Login Number: 217596

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





STRAIGHT BILL OF LADING

GMO- 4866

B	_____	_____
I	Advanced Tank Service #6497	_____
L	Pick-up 4 drums diesel sludge	_____
L	East Side of Bldg.	_____
T	_____	_____
O	Phone number: _____	Phone number: _____

STANDARD FORM

The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on route to said destination. It is mutually agree, as to each carrier of all or any of said property over all or any portion of said route to destination, as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

Route: BEST WAY

Delivery Carrier: OSI Environmental, Inc. US DOT Hazmat Reg. Number: MNT 280011586

Alternate Carrier: US DOT Hazmat Reg. Number: _____

Number of Packages HM	Description of articles	ERG
1	RQ, UN1203, Flammable Liquid, N.O.S. 3 PG II Gasoline for Recycle APPROXIMATE GALLONS: _____	128

Designated Facility OSI ENVIRONMENTAL, 912 TESCH CT., WAUKESHA, WI 53186

<input type="checkbox"/>	Specialty Product for Recycle Mineral Oil PG III (NON PCB: _____ PPM) APPROXIMATE GALLONS: _____	128
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Designated Facility OSI ENVIRONMENTAL, 912 TESCH CT., WAUKESHA, WI 53186

<input type="checkbox"/>	Specialty Product for Recycle Mineral Oil PG III (NON PCB: _____ PPM) APPROXIMATE GALLONS: _____	128
--------------------------	--	-----

Designated Facility OSI ENVIRONMENTAL, 912 TESCH CT., WAUKESHA, WI 53186

4	<input type="checkbox"/> RQ, UN1202, Fuel Oil, Combustible Liquid PG III Surplus Fuel for Recycling APPROXIMATE GALLONS: <u>220 DIESEL SLUDGE</u>	128
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Designated Facility OSI ENVIRONMENTAL, 912 TESCH CT., WAUKESHA, WI 53186

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and is in proper condition for transportation according to the applicable regulations of The Department of Transportation.

Placards Required: None Placards Supplied: NO - Furnished By Carrier

Shipper Signature: BOB Miller Carrier Signature: _____

Date: 6-13-22 Received By: Chris Mark Date: 6/13/22

CUSTOMER PROJECT NUMBER: _____

UNIT #: 1005

OSI TANK NUMBER: _____

OSI Environmental, Inc. 800-732-5667
912 Tesch Court EPA # WIR000147397 WDNR #14740
Waukesha, WI 53186

EMERGENCY RESPONSE TELEPHONE NUMBER: (800)-732-5667

SHIPPER COPY

January 5, 2023

Wisconsin Department of Natural Resources
Bureau for Remediation and Redevelopment
Attn: Alice Egan
1027 W. St. Paul Avenue
Milwaukee, WI 53233

RE: SITE STATUS UPDATE – MILLIS TRANSFER – 3001 W HOLY HILL ROAD, RICHFIELD, WI

Dear Ms. Egan:

Cedar Corporation (Cedar) is providing this site status update for Millis Transfer located at 3001 W Holy Hill Road, Richfield, Wisconsin (Site), reference Figure 1 – Site Location Map, attached).

Background:

On June 3, 2022, a 15,000-gallon diesel underground storage tank (UST) and associated piping was closed by removal. A total of 12 Tank System Site Assessment (TSSA) soil samples were collected following tank and piping removal. Base samples were not obtained from the tank cavity, as groundwater was encountered at approximately 13 feet below ground surface (ft bgs). Soil samples were submitted to Eurofins Analytical Laboratory in Chicago, Illinois for laboratory analysis of petroleum volatile organic compounds (PVOCs) and naphthalene. The TSSA report is included in Attachment A.

Of the 12 samples, two (2) samples, S-1 and S-12 (located at the western end of the tank cavity, closest to the associate piping and main dispenser), detected total trimethylbenzenes exceeding the Wisconsin Administrative Code (WAC) ch. NR 720 Soil to Groundwater Pathway Residual Contaminant Levels (RCLs), reference Table 1 - Soil Analytical Table and Attachment D – Laboratory Analytical Reports, attached.

Based on the analytical results from the TSSA sampling, Cedar recommended additional groundwater sampling to determine if the onsite groundwater has been impacted.

Monitoring Well Installation:

On October 28, 2022, On-Site Environmental of Sun Prairie, Wisconsin installed a 1" polyvinyl chloride (PVC) ch. NR 141 compliant monitoring well (MW-1) using dual-tube Geoprobe drilling techniques. The monitoring well was installed in the vicinity of S-1 and S-12, to a depth of 20 feet below ground surface (ft bgs), with a 10-foot screen, and riser to the surface, reference Figure 2 – Detailed Site Map, attached. The well was completed with a steel flushmount protective cover. At the time of drilling the ground surface was sand and gravel backfill from tank removal activities. The area was paved with asphalt in November 2022, and the integrity of the well and protective cover was maintained, reference Attachment C – Photo Log, attached.

Well Development and Sampling (November):

On November 2, 2022, Cedar developed the well using a peristaltic pump. Approximately 16 gallons of water was purged from the well to rid it of any sediment. All purge water was containerized in a steel 55-gallon drum staged at the Site.

Groundwater Sampling and Analytical Results:

On November 2, 2022, following well development activities, a groundwater sample was collected from MW-1, using a peristaltic pump, and submitted for laboratory analysis of PVOCs and naphthalene, reference Attachment B – Field Forms, attached.

In addition to sampling the newly installed monitoring well, the onsite private water supply well (PW-1) was also sampled. A faucet was turned on inside the facility and ran for approximately 10 minutes. A water sample was collected from the pressure tank and submitted for laboratory analysis of PVOCs and naphthalene, reference Attachment B – Field Forms, attached.

Analytical results identified the concentration of benzene exceeding the applicable WAC ch. NR 140 Preventive Action Limit (PAL) of 0.5 ug/L at MW-1. There were no other exceedances identified at MW-1 or PW-1, reference Table 2 – Groundwater Analytical Table and Attachment D – Laboratory Analytical Reports, attached.

As the concentration of benzene only marginally exceeded the PAL, at 0.53 ug/L, a second sampling round at MW-1 was recommended. On December 2, 2022, Cedar purged and sampled MW-1 using a peristaltic pump. Approximately 15 gallons of water was purged from the well to rid it of any sediment. All purge water was containerized in a steel 55-gallon drum staged at the Site. A sample was collected from the well and submitted for laboratory analysis of PVOCs and naphthalene, reference Attachment B – Field Forms, attached. Analytical results from this sampling event did not identify any WAC ch. NR 140 exceedances, reference Table 2 – Groundwater Analytical Table and Attachment D – Laboratory Analytical Reports, attached.

Conclusions:

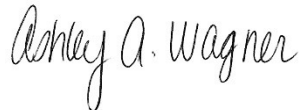
The conclusions of the investigative and remedial activities are listed below.

- Tank
 - The 15,000-gallon diesel tank and associated piping was removed from the site on June 3, 2022.
 - The tank cavity was backfilled with sand and gravel fill.
 - The area was paved with asphalt in November 2022.
- Soils
 - TSSA soil sample results identified total trimethylbenzenes WAC ch. NR 720 Soil to Groundwater Pathway RCL exceedances in two samples, S-1 (3 ft bgs), and S-12 (12 ft bgs).
- Groundwater
 - A monitoring well, MW-1, was installed in the former tank cavity, near S-1 and S-12 to a depth of approximately 20 ft bgs on October 28, 2022.
 - MW-1 was developed and sampled on November 2, 2022.
 - Benzene was detected exceeding the applicable WAC ch. NR 140 PAL.
 - A sample was collected from the onsite potable well (PW-1) on November 2, 2022.
 - There were no WAC ch. NR 140 exceedances.
 - MW-1 was re-sampled on December 2, 2022.
 - There were no WAC ch. NR 140 exceedances.

Recommendations:

Based on the review of environmental conditions completed through the course of the tank removal and investigation activities, the Site has been investigated to the extent reasonable. Low-levels of total trimethylbenzenes were detected in two adjacent samples on the western wall of the former tank cavity and beneath the associated piping, and remain onsite. Confirmation groundwater sampling did not identify any WAC ch. NR 140 exceedances. Cedar recommends that the Site be issued “No Further Action” by the WDNR as the source of the contamination (UST) was successfully removed from the Site, and the residual soil impacts are not impacting the onsite groundwater.

Sincerely,



Ashley Wagner, P.G.,
Professional Geologist



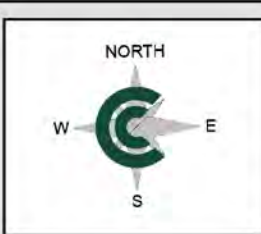
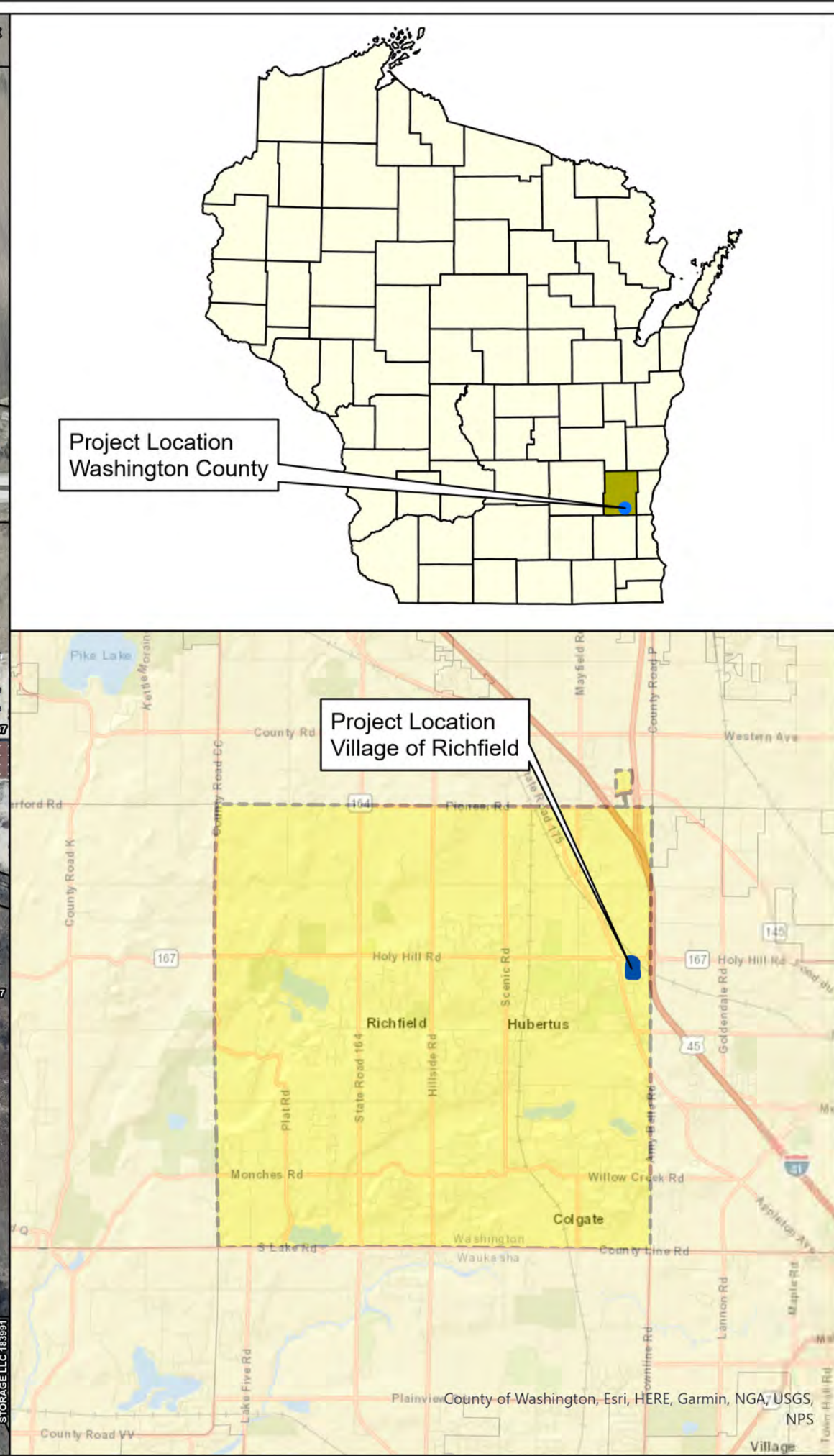
Dan O'Connell, P.G., C.P.G.,
Environmental Manager

Attachments: Figure 1 – Site Location Map
Figure 2 – Detailed Site Map
Table 1 – Soil Analytical Table
Table 2 – Groundwater Analytical Table
Attachment A – TSSA Report
Attachment B – Field Forms
Attachment C – Photo Log
Attachment D – Laboratory Analytical Reports

Figure(s)

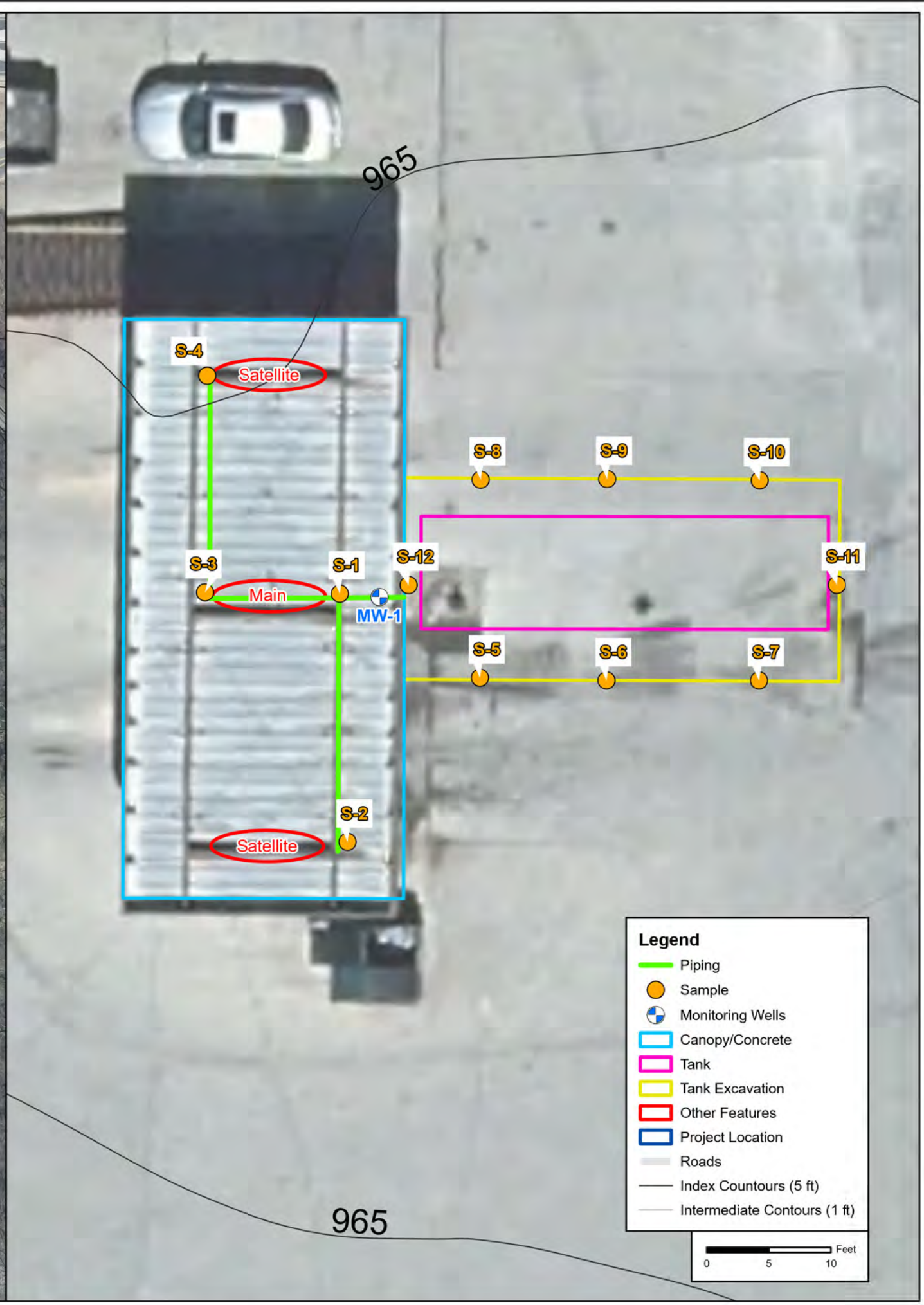
Figure 1 – Site Location Map

Figure 2 – Detailed Site Map

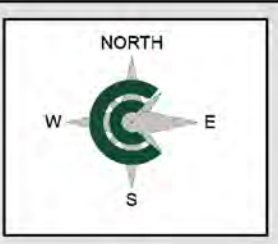
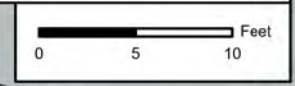


Location Map
Millis Transfer
 3001 W HOLY HILL ROAD
 VILLAGE OF RICHFIELD
 WASHINGTON COUNTY, WISCONSIN

JOB NO.	M6838
DATE	12/19/2022
FIGURE	Fig. 1



- Legend**
- Piping
 - Sample
 - ⊕ Monitoring Wells
 - Canopy/Concrete
 - Tank
 - Tank Excavation
 - Other Features
 - Project Location
 - Roads
 - Index Countours (5 ft)
 - Intermediate Contours (1 ft)



Detailed Site Map
Millis Transfer
 3001 W HOLY HILL ROAD
 VILLAGE OF RICHFIELD
 WASHINGTON COUNTY, WISCONSIN

JOB NO.
M6838

DATE
12/20/2022

FIGURE
Fig. 2

Tables

Table 1 – Soil Analytical Table

Table 2 – Groundwater Analytical Table

Table 1
Soil Analytical Results
Millis Transfer - Richfield
3001 W Holy Hill Road
Richfield, WI

Analyte	Units	Groundwater Pathway RCL	Non-Industrial Direct Contact RCL	Industrial Direct Contact RCL	Background Threshold Value	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12					
					Date	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	6/3/2022	
					Depth (ft bgs)	3	3	3	3	12	12	12	12	12	12	12	12	12	12	12	12	12
					PID (ppmv)	130.4	0.7	0.2	0.2	0.4	0.3	0.2	0.4	0.5	1.0	1.4	171.1					
Volatile Organic Compounds (VOCs)																						
1,2,4-Trimethylbenzene ¹	µg/kg	1,378.71	219,000	219,000	--	5,700	<21.0	<21.0	<21.0	<21.0	<21.0	<21.0	<21.0	<22.0	<21.0	<22.0	9,400					
1,3,5-Trimethylbenzene ¹	µg/kg	1,378.71	182,000	182,000	--	2,500	<22.0	<22.0	<22.0	<22.0	<22.0	<22.0	<22.0	<23.0	<23.0	<23.0	3,100					
Benzene	µg/kg	5.1	1,600	7,070	--	<17.0	<8.5	<8.6	<8.6	<8.6	<8.4	<8.6	<8.5	<8.9	<8.7	<8.8	<8.6					
Ethylbenzene	µg/kg	1,570	8,020	35,400	--	670	<11.0	<11.0	<11.0	<11.0	<11.0	<11.0	<11.0	<11.0	<11.0	<11.0	1,100					
Methyl-tert-butyl ether	µg/kg	27.0	63,800	282,000	--	<45.0	<23.0	<23.0	<23.0	<23.0	<23.0	<23.0	<23.0	<24.0	<24.0	<24.0	<23.0					
Naphthalene	µg/kg	658.2	5,520	24,100	--	<38.0	<19.0	<20.0	<20.0	<20.0	<19.0	<20.0	<19.0	<20.0	<20.0	<20.0	<20.0					
Toluene	µg/kg	1,107.2	818,000	818,000	--	<17.0	<8.5	<8.6	<8.6	<8.7	<8.5	<8.6	<8.5	<8.9	<8.8	<8.9	12.0 J					
Total Xylene	µg/kg	3,960	260,000	260,000	--	3,300	<13.0	<13.0	<13.0	<13.0	<13.0	<13.0	<13.0	<13.0	<13.0	<13.0	3,100					

Notes:

* = Exceedance was observed but analytical result is below Background Threshold Value (BTV)

- 100** Exceedance of the NR 720 RCL for Soil-to-Groundwater Pathway
- 100** Exceedance of the NR 720 RCL for Non-Industrial Direct Contact
- 100** Exceedance of the NR 720 RCL for Industrial Direct Contact

PID = Photoionization Detector

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

ppmv = parts per million per volume

ft bgs= feet below ground surface

RCL = Residual Contaminant Level

< = analyte not detected above laboratories limit of detection

J = Analyte detected at concentrations between the limit of detection and the limit of quantification

B = Compound was found in the blank sample

NA = Not analyzed

-- = Not established

** = Not exceeded per ch. NR 720.07(2)(c) If a soil cleanup standard for a soil contaminant is between the limit of detection and the limit of quantitation, the soil cleanup standard shall be considered to be exceeded if the soil contaminant concentration is reported at or above the limit of quantitation.

¹ = Soil to Groundwater Pathway RCLs are for 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene combined.

² = Soil to Groundwater Pathway RCLs are for cis-1,2-Dichloropropene and trans-1,3-Dichloropropene combined

³ = Soil to Groundwater Pathway RCLs are for m, p and o xylenes combined (total xylenes)

Table 2
Groundwater Analytical Results
Millis Transfer - Richfield
3001 W Holy Hill Road
Richfield, WI

Parameter	Units	ch. NR 140 ES	ch. NR 140 PAL	MW-1		PW-1
				11/02/2022	12/02/2022	11/02/2022
Volatile Organic Compounds (VOCs)						
1,2,4-Trimethylbenzene ¹	ug/L	480	96	2.4	3.2	<0.36
1,3,5-Trimethylbenzene ¹	ug/L	480	96	0.82 J	0.97 J	<0.25
Benzene	ug/L	5.0	0.5	0.53	0.26 J	<0.15
Ethylbenzene	ug/L	700	140	1.7	2.9	<0.18
Methyl-tert-butyl ether	ug/L	60	12	<0.39	<0.39	0.70 J
Naphthalene	ug/L	100	10	<0.34	0.44 J	<0.34
Toluene	ug/L	800	160	0.59	0.65	<0.15
Xylenes (total) ²	ug/L	2,000	400	7.2	8.2	<0.22

Notes:

-- = No Established Standard

Bold/Red = Concentration exceeds NR 140 Enforcement Standard

Bold/Blue = Concentration exceeds NR 140 Preventive Action Limit

ug/L = Micrograms per liter

mg/L = Milligrams per liter

NA = Not analyzed

J = Reported value was between the limit of detection and the limit of quantitation.

** = Not exceeded per ch. NR 140.14(3)(c) If the preventive action limit or enforcement standard is between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or enforcement standard to be attained or exceeded if the concentration of a substance is reported at or above the limit of quantitation.

¹ = ES and PAL levels are for 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene combined

² = ES and PAL levels are for m, p and o xylenes combined (total xylenes)

³ = ES and PAL are Public Welfare (ch. NR 140 Table 2) Standards



Appendices

Attachment A – TSSA Report



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 P.O. Box 7837, Madison, WI 53707-7837
 (608) 224-4942

Wis. Admin. Code §ATCP 93.560

FOR OFFICE USE ONLY

TANK SYSTEM SERVICE AND CLOSURE ASSESSMENT REPORT

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m) Wis. Stats.).

Complete One Form for Each System Service Event

FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE 'N/A' BOX

CHECK ONE: UNDERGROUND ABOVEGROUND

Part A - To be completed by contractor performing repair or closure

A. TYPE OF SERVICE CLOSURE REPAIR/UPGRADE CHANGE-IN-SERVICE

Indicate portion of system being serviced if a repair, upgrade or change-in-service is being performed

Remote fill Tank Piping Transition/containment sump Spill bucket Dispenser

B. IDENTIFICATION

OWNER INFORMATION

OWNER NAME MILLIS TRANSFER INC	CONTACT NAME CRAIG SCHMIDT	TITLE
MAILING ADDRESS P.O. BOX 550	<input type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE BLACK RIVER FALLS	STATE ZIP WI 54615
TELEPHONE: (715) 299 - 2319	E-MAIL	

SITE INFORMATION

FACILITY NAME MILLIS TRANSFER INC	<input type="checkbox"/> CITY <input type="checkbox"/> TOWN <input checked="" type="checkbox"/> VILLAGE RICHFIELD	STATE ZIP WI 53076
SITE ADDRESS (Not PO Box) 3001 STATE RD 167 W		

SERVICE CONTRACTOR INFORMATION

PRIMARY SERVICE CONTRACTOR Section A Above ADVANCED TANK SERVICE, INC	SERVICE CONTRACTOR CERT ID # 507193	TELEPHONE: (715) 831 - 8484	CELL: (715) 579 - 8324
STREET ADDRESS P.O. BOX 1072	<input type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE EAU CLAIRE	STATE ZIP WI 54702	

C. TANK SYSTEM DETAIL (Complete for all service activities)

a	b	c	d	e	f	g	h	
Tank ID #	Type of Closure ¹	Tank Material of Construction	Piping Material of Construction	Tank Capacity (gallons)	Contents ²	Release - System Integrity Compromised (e.g. holes, cracks, loose connection,	If "Yes" to "g", Then Specify Source and Cause of Release ³	
							Source of Release ³	Cause of Release ⁴
113523	P	STEEL	FRP	15000	DL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		

- Indicate type of closure: P = Permanent, TOS = Temporarily Out-of-Service, CIP = Closure In-Place
- Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, PX = Premix, WO = Waste/Used Motor Oil, FCHZW = Flammable/Combustible Hazardous Waste, OC = Other Chemical (indicate the chemical name(s):
- CAS number(s):
- Source of release: T = tank, P = piping, D = dispenser, STP = submersible turbine pump, DP = delivery problem, O = other, UNK = Unknown
- Cause of release:
S = spill, O = overflow, POMD = physical or mechanical damage, C = corrosion, IP = installation problem, O = other, UNK = Unknown
- Has release been reported to the Department of Natural Resources? Yes No Release not evident at this time (pending sample analysis)

D. CLOSURES (Check applicable box at right in response to all statements in section D)

Written notification was provided to the local agent 5 days in advance of closure date. Yes No

All local permits were obtained before beginning closure. Yes No NA

UST Form TR-WM-137 or AST Form TR-WM-118 filed by owner with the DATCP indicating closure. Yes No NA

NOTE: TANK INVENTORY FORM TR-WM-137 or TR-WM-118 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE or CHANGE-IN-SERVICE CHECKLIST

D. CLOSURE BY REMOVAL OR IN-PLACE

1. General Requirements	Remover Verified	Inspector Verified	Inspector Not Present	NA
a. Product from piping drained into tank (or other container).	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Piping disconnected from tank and removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. All liquid and residue removed from tank using explosion-proof pumps or hand pumps prior to removing tank from excavation.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
d. All pump motors and suction hoses bonded to tank or otherwise grounded.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
e. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
f. Vent lines left connected until tanks purged.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
g. Tank openings temporarily plugged so vapors exit through vent.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
h. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section E.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Specific Closure-by-Removal Requirements				
a. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Tank cleaned before being removed from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. Tank labeled in full compliance with API 1604 after removal but before being moved from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; MONTH/DAY/YEAR OF REMOVAL

d. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. Site security is provided while the excavation is open.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

3. Specific Closure-In-Place Requirements

NOTE: CLOSURES IN-PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION (DATCP) OR LOCAL AGENT.

a. Tank properly cleaned to remove all sludge and residue.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Solid inert material (sand, cyclone boiler slag, or pea gravel recommended) introduced and tank filled.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. Vent line disconnected or removed.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
d. Inventory form filed by owner with DATCP indicating closure in-place.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

E. REPAIR, UPGRADE OR CHANGE-IN-SERVICE

Written notification was provided to the local agent 5 days in advance of service date. Y N NA

All local permits were obtained before beginning service. Y N NA

Form TR-WM-137 or 0 TR-WM-118 filed by owner with DATCP indicating change-in-service. Y N NA

F. METHOD OF VAPOR FREEING OF TANK

- Displacement of vapors by 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.
- Inert gas using dry ice or liquid carbon dioxide.
- Inert gas using CO2 or N2 **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. LEL METERS MAY NOT FUNCTION ACCURATELY. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.**
Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.
Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.
- Readings of 10% or less of the lower flammable range (LEL) or <5% oxygen obtained before removing tank from ground.
- Tank atmosphere monitored for flammable or combustible vapor levels prior to and during cleaning and cutting.
- Calibrate combustible gas indicator and/or oxygen meter prior to use. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank.

G. REMOVER/CLEANER INFORMATION

REMOVER/CLEANER NAME (PRINT): Sustin Polanco REMOVER/CLEANER SIGNATURE: [Signature] CERTIFICATION #: 401548 DATE TANK REMOVED: 6-3-22

I attest that the procedures and information which I have provided as the tank closure contractor are correct and comply with ATCP 93.

Company expected to perform soil contamination assessment: cedar corp 401889

H. INSPECTOR INFORMATION

Jason Karczewski *JKarczewski* 468444 DATCP
INSPECTOR NAME (PRINT) INSPECTOR SIGNATURE INSPECTOR CERTIFICATION # LPO AGENCY/COMPANY NAME

6610 Richfield (262) 307-6440 6/3/22
FDID # FOR LOCATION WHERE INSPECTION PERFORMED INSPECTOR TELEPHONE NUMBER DATE SIGNED

INSPECTOR NOTES:

Part B – To be completed by environmental professional - Submit original Part B to the WDNR along with a copy of Part A

I. TANK-SYSTEM SITE ASSESSMENT (TSSA)

SITE NAME - *Note: SITE NAME and address MUST MATCH with Part A Section 1.*

Millis Transfer LLC

SITE ADDRESS (Not PO Box)

3001 State HWY 167

CITY TOWN VILLAGE
Richfield

STATE
WI

ZIP
53076

To determine if a TSSA is required, see ATCP 93 and section II part B of *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS*.

If a TSSA is required, then follow the procedures detailed in *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS*

1. Site Information

a. Has there been a previously documented release at this site? Y N

If yes, provide the DATCP # _____ or DNR BRRT's # _____

b. Number of active tanks at facility prior to completion of current services: USTs 1 ASTs 0

(NOTE 1: Do not include previously closed systems or system components.)

c. Excavation/trench dimensions (in feet). (Photos must be provided.)

EXCAVATION/TRENCH #	LENGTH	WIDTH	DEPTH
Tank Bed	34	17	12
Piping	24	4	3

2. Visual Excavation/Trench Inspection (Photos must be provided for "Yes" responses, except item b.)

Do any of the following conditions exist in or about the excavation(s)?

- a. Stained soils: Yes No b. Petroleum odor: Yes No c. Water In excavation/trench: Yes No
 d. Free product in the excavation/trench: Yes No e. Sheen or free product on water: Yes No

3. Geology/Hydrogeology

a. Depth to groundwater 13 feet b. Indicate type of geology² Silty sand

4. Receptors

- a. Water supply well(s) within 250 feet of the facility? Yes No If yes, specify: Potable well on site, specific location unknown
 b. Surface water(s) within 1000 feet of the facility? Yes No If yes, specify: _____

5. Sampling

- a. Follow the procedures detailed in *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS*.
 b. Complete Tables 1 and 2 as appropriate. (Attach chain-of-custody and laboratory analytical reports.)
 c. Attach a detailed map of site features and sample locations.

J. NOTE RELEVANT OBSERVATIONS, SPECIFIC PROBLEMS OR CONCERNS BELOW

Groundwater was encountered in the bottom of the excavation. No base samples were collected. Sidewall samples were collected approximately 12 feet below ground surface, just above the water table. Soil samples S-1 and S-12 had elevated PID readings. The western tank wall was approximately 8 feet from the master pump. Soil sample S-1 was collected approximately 3 feet below the master pump. Soil sample S-12 was collected from the west side wall at approximately 12 feet. Sample S-12 acts as a confirmation sample from beneath soil sample S-1. 1,2,4-Trimethylbenzene was detected in the trip blank at 32J micrograms per kilogram, the result was detected between the laboratory limit of detection and the limit of quantification.

TABLE 1 SOIL FIELD SCREENING & GRO/DRO LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	Sample Location & Soil/Geologic Description	Sample Collection Method				Depth Below Tank/Piping (feet)	Field Screening Result (ppm)	GRO (mg/kg)	DRO (mg/kg)
		Grab	Shelby Tube	Direct Push	Split Spoon				
S-1	East master piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	130.4		
S-2	South satellite piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	0.7		
S-3	West master piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	0.2		
S-4	North satellite piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	0.2		
S-5	Southwest wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.4		
S-6	South wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.3		
S-7	Southeast wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.2		
S-8	Northwest wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.4		
S-9	North wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.5		
S-10	Northeast wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	1.0		
S-11	East wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	1.4		
S-12	West wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	171.1		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

TABLE 2 SOIL LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	BENZENE	TOLUENE	ETHYLBENZENE	MTBE	TRIMETHYL - BENZENES (TOTAL)	XYLENES (TOTAL)	NAPHTHALENE
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
S-1	<17	<17	670	<45	8,200	3,300	<38
S-2	<8.5	<8.5	<11	<23	<22	<13	<19
S-3	<8.6	<8.6	<11	<23	<22	<13	<20
S-4	<8.6	<8.6	<11	<23	<22	<13	<20
S-5	<8.6	<8.7	<11	<23	<22	<13	<20
S-6	<8.4	<8.5	<11	<23	<22	<13	<19
S-7	<8.6	<8.6	<11	<23	<22	<13	<20
S-8	<8.5	<8.5	<11	<23	<22	<13	<19
S-9	<8.9	<8.9	<11	<24	<23	<13	<20
S-10	<8.7	<8.8	<11	<24	<23	<13	<20
S-11	<8.8	<8.9	<11	<24	<23	<13	<20
S-12	<8.6	12JB	1,100	<23	12,500	3,100	<20
Trip Blank	<7.3	<7.4	<9.2	<20	32J	<11	<17

K. TANK-SYSTEM SITE ASSESSMENT INFORMATION

As a tank-system site assessor certified under Wis. Admin. Code section ATCP 93.240, it is my opinion that there is no indication of a release of a regulated substance to the environment.

Sampling at the site indicates there has been a release to the environment. Pursuant to Wis. Admin. Code section ATCP 93.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter ATCP 93 shall immediately report any release of a regulated substance to the Wisconsin Department of Natural Resources. Failure to do so may result in forfeitures of a minimum of \$10 and a maximum of \$5000 for each violation under Wis. Stats. Section 168.26 (5). Each day of continued violation and each tank are treated as separate offenses.

Quin Lenz

TANK-SYSTEM SITE ASSESSOR NAME (PRINT):

TANK-SYSTEM SITE ASSESSOR SIGNATURE

494047

CERTIFICATION NO.

(920) 491 - 9081

TANK-SYSTEM SITE ASSESSOR TELEPHONE NUMBER

6/20/2022

DATE SIGNED

Cedar Corporation

COMPANY NAME

This document can be made available in alternate formats to individuals with disabilities upon request.

Distribution: DATCP DNR Inspector Contractor Owner



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 PO Box 7837 Madison, WI 53707-7837
 (608) 224-4942

FOR OFFICE USE ONLY

 Wis. Admin. Code §ATCP 93.140

UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZARDOUS LIQUID STORAGE TANK REGISTRATION

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m) Wis. Stats.).

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered.

A separate form is needed for each tank. Send each completed form to the agency designated above.

Have you previously registered this tank by submitting a form? Yes No If yes, are you correcting/updating information only? Yes No

This registration applies to a tank piping status that is (check one): Date of status change: 6/3/2022

<input type="checkbox"/> In Use	<input type="checkbox"/> Abandoned with Water	<input type="checkbox"/> Abandoned with Product
<input type="checkbox"/> Newly Installed	<input checked="" type="checkbox"/> Closed - Removed	<input type="checkbox"/> Abandoned without Product (empty)
<input type="checkbox"/> Temporarily Out of Service - Provide Date:	<input type="checkbox"/> Closed - Filled with Inert Materials	<input type="checkbox"/> Change of Site/Facility Address Only (complete boxes 1.a. and b. below)
<input type="checkbox"/> Ownership Change (Indicate new owner name in box 2 - attach deed)		

IDENTIFICATION (Please Print)

1. TANK SITE NAME MILLIS TRANSFER INC		COUNTY WASHINGTON	PHONE () -
a. CURRENT SITE STREET ADDRESS 3001 STATE RD 167 W		<input type="checkbox"/> CITY <input checked="" type="checkbox"/> VILLAGE <input type="checkbox"/> TOWN OF: RICHFIELD	STATE WI ZIP 53076
b. PREVIOUS SITE STREET ADDRESS		<input type="checkbox"/> CITY <input type="checkbox"/> VILLAGE <input type="checkbox"/> TOWN OF:	STATE WI ZIP

Fire Dept. providing fire coverage where tank is located: CITY TOWN VILLAGE of: RICHFIELD #6610

2. TANK OWNER LEGAL NAME MILLIS TRANSFER INC		COUNTY JACKSON	PHONE: Check <input type="checkbox"/> CELL or <input type="checkbox"/> LAND (715) 299 - 2319
MAILING ADDRESS P.O. BOX 550		<input type="checkbox"/> CITY <input type="checkbox"/> VILLAGE <input type="checkbox"/> TOWN OF: BLACK RIVER FALLS	STATE WI ZIP 54615

3. PROPERTY OWNER NAME (if different from Tank Owner Legal Name #2)		COUNTY (if different from County #2)
PROPERTY OWNER ADDRESS (if different from Site Street Address #1)		<input type="checkbox"/> CITY <input type="checkbox"/> VILLAGE <input type="checkbox"/> TOWN OF: STATE ZIP

4. CLASS A NAME	DOB	CERTIFICATION: (Attach certificate)
5. CLASS B NAME	DOB	CERTIFICATION: (Attach certificate)

SITE ID:	FACILITY ID # 412663	CUSTOMER ID #
----------	----------------------	---------------

Tank Capacity (gallons): 15000 Tank Age (age or date installed): Vehicle fueling: Yes No

LAND OWNER TYPE (Refer to back; check one): County State Federal Leased Federal Owned Tribal Nation Municipal Other Government Private

OCCUPANCY TYPE (check one) Refer to back

Retail Fuel Sales Mercantile/Commercial Bulk Storage Terminal Storage Industrial Residential School Government Fleet
 Agricultural (crop or livestock production) Utility Backup or Emergency Generator Other (specify):

TANK CONSTRUCTION:

<input type="checkbox"/> Bare Steel	<input checked="" type="checkbox"/> Coated Steel	<input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite	Overfill Protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Unknown	<input type="checkbox"/> Other (specify):	Spill Containment? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Tank Double Walled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

TANK CATHODIC PROTECTION: Sacrificial Anodes Impressed Current N/A

TANK LEAK DETECTION METHOD: Automatic tank gauging Interstitial monitoring Electronic Yes No Statistical Inventory Reconciliation (SIR)
 Manual tank gauging (only for tanks of 1,000 gallons or less) Unknown

PIPING CONSTRUCTION: Single Wall Double Wall:
 Bare Steel Coated Steel Fiberglass Flexible Copper Unknown N/A Other:

PIPING CATHODIC PROTECTION: Sacrificial Anodes Impressed Current N/A

PRIMARY PIPING SYSTEM TYPE: Pressurized piping with A. Pump auto shutoff - ELLD B. Flow restrictor - MLLD Unknown
 Suction piping with check valve at tank Suction piping with check valve at pump and inspectable Not needed if waste oil

PIPING LEAK DETECTION METHOD: Interstitial monitoring Electronic Yes No Sump or cable sensor Yes No
 Tightness testing Electronic line monitor - ELLD SIR Not required Unknown

TANK CONTENTS Current, or previous product (if tank now empty) (* = NOT PECFA eligible) Leaded Unleaded Gas-ethanol blend: ___ % ethanol Diesel
 Bio-Diesel: ___ % Hazardous Waste/Interface* Kerosene Fuel Oil Premix New Oil New oil - Flash point less than 200°F
 Waste/Used Motor Oil Used for Heating Aviation Empty* Sand/Grave/Slurry* Unknown
 Other (specify): Chemical* Name: CAS#

Has a site assessment been completed? (see reverse side for details) Yes No

TANK OWNER LEGAL NAME (please print) Christopher Schwenske	TANK OWNER E-MAIL
---	-------------------

TANK OWNER SIGNATURE (Note: By signing, signer is accepting legal and financial responsibility for the storage tank system.) 	DATE:
--	-------

Note: Refer to comments on reverse side of form.



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 Storage Tank Regulation, PO Box 7837, Madison, WI 53707-7837
 Phone: (608) 224-4942

Wis. Admin. Code §ATCP 93.115
 §ATCP 93.350

ATCP 93 NOTIFICATION RECORD

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m), Wis. Stats.)

TO: Darren Leone

OFFICE LOCATION: DATCP

(Refer to https://datcp.wi.gov/Pages/Programs_Services/StorageTankContacts.aspx for a jurisdiction's authorized agent/department.)

Note: Only the notification form is required for non-flammable, non-combustible, hazardous liquid, or CERCLA tanks greater than or equal to 5,000 gallon capacity that are under the direct supervision of a qualified engineer. A plan review is not required. (ATCP 93.350(2)(b)).

LOCATION / IDENTIFICATION

SITE NAME <u>Millis Transfer Inc</u>		FACILITY NUMBER <u>412663</u>	FIRE DEPT. PROVIDING FIRE PROTECTION COVERAGE <u>Richfield # 6610</u>			
SITE STREET ADDRESS <u>3001 State Road 167 W</u>		<input type="checkbox"/> CITY	<input type="checkbox"/> TOWN	<input checked="" type="checkbox"/> VILLAGE	STATE <u>WI</u>	ZIP <u>53076</u>
OWNER NAME <u>Millis Transfer Inc</u>		PHONE NUMBER <u>() -</u>	TANK OWNER EMAIL			
OWNER STREET ADDRESS <u>P.O. Box 550</u>		<input type="checkbox"/> CITY	<input type="checkbox"/> TOWN	<input type="checkbox"/> VILLAGE	STATE <u>WI</u>	ZIP <u>54615</u>
CONTRACTOR NAME <u>ADVANCED TANK SERVICE, INC</u>		PHONE NUMBER <u>(715) 831 - 8484</u>	CELL NUMBER <u>(715) 579 - 8324</u>	EMAIL <u>molson@adv-tank.com</u>		
STREET ADDRESS <u>P.O. BOX 1072</u>		<input type="checkbox"/> CITY	<input type="checkbox"/> TOWN	<input type="checkbox"/> VILLAGE	STATE <u>WI</u>	ZIP <u>54702</u>
DATE WORK IS TO BEGIN	DATE/TIME REQUESTED FOR TANK INSPECTION <u>6/3 1:30pm</u>	ATCP 93 CERTIFIED INSTALLER SUPERVISOR OR QUALIFIED ENGINEER <u>Justin Peloguin</u>				

PROJECT WILL INVOLVE: (Check all that apply) Plan Approval No.: Approval Date:

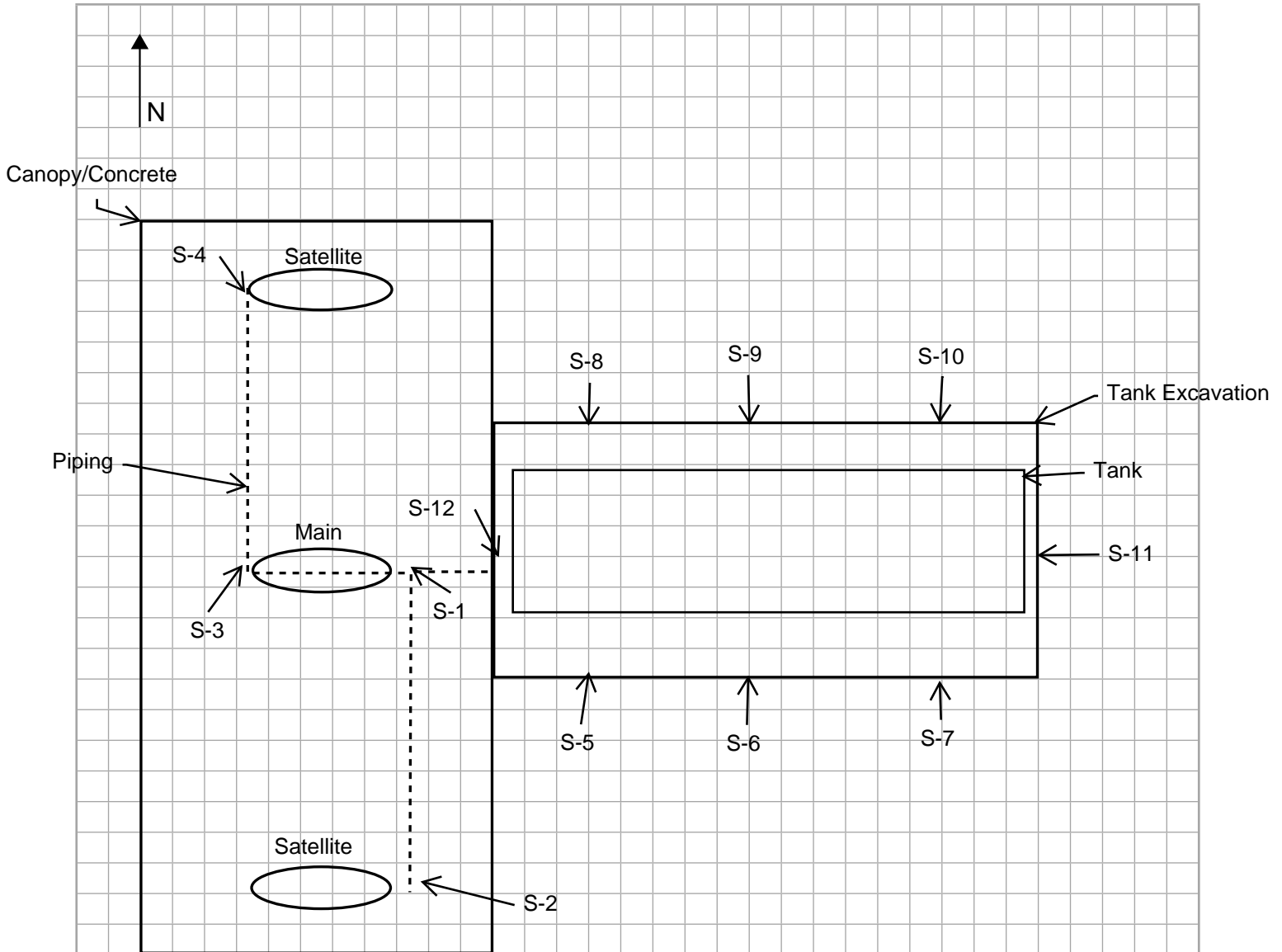
	UST	AST	No. of Tanks	Comments:
Tank Installation	<input type="checkbox"/>	<input type="checkbox"/>		<p><u>15K DSL</u></p> <p><u>TSSA: Cedar Corporation</u></p>
Dispenser POS Conversion	<input type="checkbox"/>	<input type="checkbox"/>		
Piping Installation or Upgrade	<input type="checkbox"/>	<input type="checkbox"/>		
Leak Detection Upgrade	<input type="checkbox"/>	<input type="checkbox"/>		
Spill or Overfill Protection	<input type="checkbox"/>	<input type="checkbox"/>		
Cathodic Protection or Interior Lining	<input type="checkbox"/>	<input type="checkbox"/>		
CERCLA Chemical Tank(s) Only ¹	<input type="checkbox"/>	<input type="checkbox"/>		
Tank Closure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1</u>	
Alternative Fuel Storage Tank Installation ^{2,3,5} (see footnotes below)	<input type="checkbox"/>	<input type="checkbox"/>		
Alternative Fuel Storage Tank Conversion ^{4,5} (see footnotes below)	<input type="checkbox"/>	<input type="checkbox"/>		

¹Send Notice to DATCP (see address above). Installation inspection is not required if construction/installation is supervised by a qualified engineer.
²For LPO installations send notice to both the assigned LPO and DATCP General Inspection Inspector. DATCP General Inspection Inspector will be at the final inspection only. Alternative fuel storage tank systems shall not begin operation until the DATCP General Inspection Inspector has granted approval.
³For DATCP installation inspections send notice to only the assigned DATCP Installation Inspector. Alternative fuel storage tank systems shall not begin operation until the DATCP general inspector has granted approval.
⁴Send notice to only the DATCP General Inspection Inspector.
⁵See Conditional Approval letter and Notification email for Installation and general inspector information.

For USTs: If an Owner/Operator intends to begin operation immediately after the final inspection, they shall prepare and submit the documentation listed below at least 15 days prior to the final inspection:

- A TR-WM-137 Underground Flammable/Combustible Liquid Storage Tank Registration.
- A Wisconsin Operator Training Designation form.
- Affidavit of Financial Responsibility, certificate of insurance, and site schedule of covered locations and storage tanks.

Figure 1 - Detailed Site Map



Notes:

- Tank size ~ 9'x32'.
- Tank excavation ~ 34'x17'.
- Piping samples collected at 3' below ground surface (bgs).
- Tank samples collected at 12' bgs.
- No base samples due to groundwater encountered at 13' bgs.

Scale



Client Name:
Wisconsin Department of Natural Resources

Site Location:
3001 State Highway 167, Richfield WI

Project No.
00590-0009

Photo No.
1

Date:
6/3/2022

Direction Photo Taken:

Northwest

Description:

View of the tank location prior to removal.



Photo No.
2

Date:
6/3/2022

Direction Photo Taken:

East

Description:

View of the tank during removal.



Photo No. 3	Date: 6/3/2022
Direction Photo Taken: Northwest	
Description: 15,000-gallon tank removed from the Site.	



Photo No. 4	Date: 6/3/2022
Direction Photo Taken: West	
Description: Area of the tank excavation.	



Photo No. 5	Date: 6/3/2022
Direction Photo Taken: South	
Description: View of the south sidewall of the tank excavation.	



Photo No. 6	Date: 6/3/2022
Direction Photo Taken: Southwest	
Description: View of the west sidewall of the tank excavation	



Photo No. 7	Date: 6/3/2022
Direction Photo Taken: Northwest	
Description: View of the north sidewall of the tank excavation.	



Photo No. 8	Date: 6/3/2022
Direction Photo Taken: Northeast	
Description: View of the east sidewall of the tank excavation.	



Photo No. 9	Date: 6/3/2022
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Direction Photo Taken: North
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Description: View of the pipe excavation running from the main to the northern satellite.



Photo No. 10	Date: 6/3/2022
------------------------	--------------------------

Direction Photo Taken: North
--

Description: View of the pipe excavation running from the main to the northern satellite.





STRAIGHT BILL OF LADING

GMO- 4866

B	_____	_____
I	Advanced Tank Service #6497	Millis Transfer
L	Pick-up 4 drums diesel sludge	3001 Holy Hill Rd
L	East Side of Bldg.	Richfield, WI 53076
T	_____	_____
O	Phone number: _____	Phone number: _____

STANDARD FORM

The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on route to said destination. It is mutually agree, as to each carrier of all or any of said property over all or any portion of said route to destination, as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

Route: BEST WAY

Delivery Carrier: OSI Environmental, Inc. US DOT Hazmat Reg. Number: MNT 280011586

Alternate Carrier: US DOT Hazmat Reg. Number: _____

Number of Packages HM	Description of articles	ERG
1	RQ, UN1203, Flammable Liquid, N.O.S. 3 PG II Gasoline for Recycle APPROXIMATE GALLONS: _____	128

Designated Facility OSI ENVIRONMENTAL, 912 TESCH CT., WAUKESHA, WI 53186

<input type="checkbox"/>	Specialty Product for Recycle Mineral Oil PG III (NON PCB: _____ PPM) APPROXIMATE GALLONS: _____	128
--------------------------	--	-----

Designated Facility OSI ENVIRONMENTAL, 912 TESCH CT., WAUKESHA, WI 53186

<input type="checkbox"/>	Specialty Product for Recycle Mineral Oil PG III (NON PCB: _____ PPM) APPROXIMATE GALLONS: _____	128
--------------------------	--	-----

Designated Facility OSI ENVIRONMENTAL, 912 TESCH CT., WAUKESHA, WI 53186

4	<input type="checkbox"/> RQ, UN1202, Fuel Oil, Combustible Liquid PG III Surplus Fuel for Recycling APPROXIMATE GALLONS: <u>220 DIESEL SLUDGE</u>	128
---	---	-----

Designated Facility OSI ENVIRONMENTAL, 912 TESCH CT., WAUKESHA, WI 53186

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and is in proper condition for transportation according to the applicable regulations of The Department of Transportation.

Placards Required: None Placards Supplied: NO - Furnished By Carrier

Shipper Signature: Bob Miller Carrier Signature: _____

Date: 6-13-22 Received By: Chris Math Date 6-13-22

CUSTOMER PROJECT NUMBER: _____

UNIT #: 1005

OSI Environmental, Inc. 800-732-5667
912 Tesch Court EPA # WIR000147397 WDNR #14740
Waukesha, WI 53186

OSI TANK NUMBER: _____

EMERGENCY RESPONSE TELEPHONE NUMBER: (800)-732-5667

SHIPPER COPY

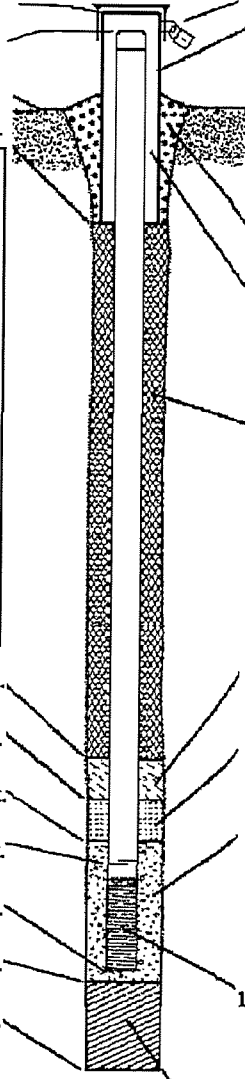


Attachment B – Field Forms

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Millis Transfer - Richfield	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ "Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 10 / 28 / 2022 m m d d y y v v y
Type of Well _____	Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 13 T. 09 N, R. 19 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapuga On Site Environmental
Well Code _____	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: 6 in. b. Length: 0.8 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or _____ ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input checked="" type="checkbox"/> Geoprobe	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. RW Sidley b. Volume added 0.05 ft ³ APPX
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. RW Sidley b. Volume added 0.5 ft ³ APPX
17. Source of water (attach analysis, if required): NA	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or 0.8 ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or 3.5 ft.	b. Manufacturer _____ c. Slot size: 0.01 in. d. Slotted length: 10 ft.
G. Filter pack, top _____ ft. MSL or 4 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 10 ft.	
I. Well bottom _____ ft. MSL or 20 ft.	
J. Filter pack, bottom _____ ft. MSL or 18 ft.	
K. Borehole, bottom _____ ft. MSL or 20 ft.	
L. Borehole, diameter 3.5 in.	
M. O.D. well casing 1.66 in.	
N. I.D. well casing 1.38 in.	



I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: Tony Kapuga Firm: Cedar Corp.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Millis Transfer - Richfield	County Name Washington	Well Name MW-1
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other

3. Time spent developing well 55 min.

4. Depth of well (from top of well casing) 19.7 ft.

5. Inside diameter of well 1.38 in.

6. Volume of water in filter pack and well casing 0.7 gal.

7. Volume of water removed from well 16.5 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

Surged 1/4" tubing during development

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>11.05</u> ft.	<u>11.08</u> ft.
Date	b. <u>11/02/2022</u> m m d d y y y y	<u>11/02/2022</u> m m d d y y y y
Time	c. <u>9:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>9:57</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.1</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe) <u>Brown Turbid</u>	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>Clear</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u>NA</u> mg/l	<u>NA</u> mg/l
15. COD	<u>NA</u> mg/l	<u>NA</u> mg/l
16. Well developed by: Name (first, last) and Firm	First Name: Ashley Last Name: Wagner Firm: Cedar Corporation	

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Dan Last Name: Millis

Facility/Firm: Millis Transfer

Street: _____

City/State/Zip: Black River Falls, WI

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

Signature: Ashley Wagner

Print Name: Ashley Wagner

Firm: Cedar Corporation

NOTE: See instructions for more information including a list of county codes and well type codes.



Groundwater Sampling Log

Project Information:

Project Name: Millis Transfer Richfield Well ID: PW-1 Date: 11/2/22

Cedar Project Number: M6838-001 Cedar Representative: Ashley Wagner

Project Address: 3001 W Holy Hill Rd, Richfield, WI 53076

Water Quality Meter (Make, Model, S/N): Hanna, HI9813-6, 04240008101

Water Level Information:

Depth to Bottom (ft. below TOC): NA Length of Water Column: NA

Depth of Water (ft. below TOC): NA One Well Volume (c*0.08[for 1" dia. Pipe]): NA

Well Purging Data:

Purge Method: Purge faucet in facility

Minimum Required Volume: NA

Water Quality Parameters:

Time	Gallons	pH	Cond. (mS/cm)	TDS (ppm)	Temp (°C)	Notes
	Initial					
10:48	NM	7.3	1.36	NM	15.5	color: clear
						odor: none
						clarity: clear
						Turned faucet on, and let run for appx 10 min, pressure tank turned on before sampling.

Temp = Degrees Celsius Cond. = Electrical Conductivity TDS = Total Dissolved Solids

Method of sampling: Sample spigot at pressure tank

Sample ID: _____

Analysis: PVOCs + Naphthalene

Sample Time: _____

Have groundwater parameters been met?

Yes No NA

Explanation: _____

Additional Comments: _____


Cedar Representative Signature

Date



Attachment C – Photo Log

Client Name: Millis Transfer		Site Location: Richfield, WI	Project No. M6838-001
Photo No. 1	Date: 11/2/2022		
Direction Photo Taken: East			
Description: Drilling MW-1			

Photo No. 2	Date: 11/2/2022		
Direction Photo Taken: West			
Description: Drilling MW-1			


Client Name: Millis Transfer		Site Location: Richfield, WI	Project No. M6838-001
Photo No. 3	Date: 11/2/2022		
Direction Photo Taken:			
Description: Constructed MW-1			

Photo No. 4	Date: 11/2/2022		
Direction Photo Taken: East-Northeast			
Description: Completed MW-1			

Client Name: Millis Transfer		Site Location: Richfield, WI	Project No. M6838-001
Photo No. 5	Date: 11/2/2022		
Direction Photo Taken: Southeast			
Description: Location of pressure tank, PW-1 sample			

Photo No. 6	Date: 11/2/2022		
Direction Photo Taken: East			
Description: Location of pressure tank, PW-1 sample			

Client Name: Millis Transfer

Site Location: Richfield, WI

Project No.
M6838-001

Photo No.
7 **Date:**
12/2/2022

Direction Photo Taken:

West

Description:

Former tank cavity paved over



Photo No.
8 **Date:**
12/2/2022

Direction Photo Taken:

West

Description:

Former tank cavity paved over – MW-1 in sound condition





PHOTOGRAPH LOG

Client Name: Millis Transfer

Site Location: Richfield, WI

Project No.
M6838-001

Photo No.
9

Date:
12/2/2022

Direction Photo Taken:

East-Southeast

Description:

Former tank cavity paved over – MW-1 in sound condition





Attachment D – Laboratory Analytical Reports

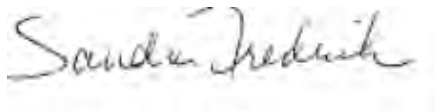
ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-217596-1
Client Project/Site: Richfield Tank Pull

For:
Cedar Corporation
1695 Bellevue Street
Green Bay, Wisconsin 54311

Attn: Quin Lenz



Authorized for release by:
6/20/2022 7:46:03 AM

Sandie Fredrick, Project Manager II
(920)261-1660
Sandra.Fredrick@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Job ID: 500-217596-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-217596-1**

Comments

No additional comments.

Receipt

The samples were received on 6/4/2022 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

Method 8260B: The following sample was diluted due to the abundance of non-target analytes: S-1 (500-217596-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
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Detection Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-1

Lab Sample ID: 500-217596-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	670		29	21	ug/Kg	100	✳	8260B	Total/NA
1,2,4-Trimethylbenzene	5700		110	41	ug/Kg	100	✳	8260B	Total/NA
1,3,5-Trimethylbenzene	2500		110	44	ug/Kg	100	✳	8260B	Total/NA
Xylenes, Total	3300		57	25	ug/Kg	100	✳	8260B	Total/NA

Client Sample ID: S-2

Lab Sample ID: 500-217596-2

No Detections.

Client Sample ID: S-3

Lab Sample ID: 500-217596-3

No Detections.

Client Sample ID: S-4

Lab Sample ID: 500-217596-4

No Detections.

Client Sample ID: S-5

Lab Sample ID: 500-217596-5

No Detections.

Client Sample ID: S-6

Lab Sample ID: 500-217596-6

No Detections.

Client Sample ID: S-7

Lab Sample ID: 500-217596-7

No Detections.

Client Sample ID: S-8

Lab Sample ID: 500-217596-8

No Detections.

Client Sample ID: S-9

Lab Sample ID: 500-217596-9

No Detections.

Client Sample ID: S-10

Lab Sample ID: 500-217596-10

No Detections.

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

No Detections.

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1100		15	11	ug/Kg	50	✳	8260B	Total/NA
Toluene	12	J B	15	8.7	ug/Kg	50	✳	8260B	Total/NA
1,2,4-Trimethylbenzene	9400		59	21	ug/Kg	50	✳	8260B	Total/NA
1,3,5-Trimethylbenzene	3100		59	23	ug/Kg	50	✳	8260B	Total/NA
Xylenes, Total	3100		30	13	ug/Kg	50	✳	8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-217596-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	32	J	50	18	ug/Kg	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Method Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-217596-1	S-1	Solid	06/03/22 12:40	06/04/22 09:15
500-217596-2	S-2	Solid	06/03/22 12:45	06/04/22 09:15
500-217596-3	S-3	Solid	06/03/22 12:50	06/04/22 09:15
500-217596-4	S-4	Solid	06/03/22 12:55	06/04/22 09:15
500-217596-5	S-5	Solid	06/03/22 13:00	06/04/22 09:15
500-217596-6	S-6	Solid	06/03/22 13:03	06/04/22 09:15
500-217596-7	S-7	Solid	06/03/22 13:06	06/04/22 09:15
500-217596-8	S-8	Solid	06/03/22 13:10	06/04/22 09:15
500-217596-9	S-9	Solid	06/03/22 13:15	06/04/22 09:15
500-217596-10	S-10	Solid	06/03/22 13:20	06/04/22 09:15
500-217596-11	S-11	Solid	06/03/22 13:25	06/04/22 09:15
500-217596-12	S-12	Solid	06/03/22 13:30	06/04/22 09:15
500-217596-13	Trip Blank	Solid	06/03/22 10:00	06/04/22 09:15

- 1
- 2
- 3
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- 11
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- 14
- 15

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-1

Lab Sample ID: 500-217596-1

Date Collected: 06/03/22 12:40

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		29	17	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Ethylbenzene	670		29	21	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Methyl tert-butyl ether	<45		110	45	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Naphthalene	<38		110	38	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Toluene	<17		29	17	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
1,2,4-Trimethylbenzene	5700		110	41	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
1,3,5-Trimethylbenzene	2500		110	44	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Xylenes, Total	3300		57	25	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				06/03/22 12:40	06/16/22 12:08	100
Dibromofluoromethane (Surr)	89		75 - 120				06/03/22 12:40	06/16/22 12:08	100
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 12:40	06/16/22 12:08	100
Toluene-d8 (Surr)	96		75 - 120				06/03/22 12:40	06/16/22 12:08	100

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-2

Lab Sample ID: 500-217596-2

Date Collected: 06/03/22 12:45

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.5		15	8.5	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Naphthalene	<19		58	19	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Toluene	<8.5		15	8.5	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 12:45	06/16/22 12:33	50
Dibromofluoromethane (Surr)	89		75 - 120				06/03/22 12:45	06/16/22 12:33	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126				06/03/22 12:45	06/16/22 12:33	50
Toluene-d8 (Surr)	95		75 - 120				06/03/22 12:45	06/16/22 12:33	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-3

Lab Sample ID: 500-217596-3

Date Collected: 06/03/22 12:50

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Toluene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 12:50	06/16/22 12:59	50
Dibromofluoromethane (Surr)	87		75 - 120				06/03/22 12:50	06/16/22 12:59	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126				06/03/22 12:50	06/16/22 12:59	50
Toluene-d8 (Surr)	98		75 - 120				06/03/22 12:50	06/16/22 12:59	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-4

Lab Sample ID: 500-217596-4

Date Collected: 06/03/22 12:55

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Toluene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 12:55	06/16/22 13:25	50
Dibromofluoromethane (Surr)	86		75 - 120				06/03/22 12:55	06/16/22 13:25	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 12:55	06/16/22 13:25	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 12:55	06/16/22 13:25	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-5

Lab Sample ID: 500-217596-5

Date Collected: 06/03/22 13:00

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Toluene	<8.7		15	8.7	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				06/03/22 13:00	06/16/22 13:51	50
Dibromofluoromethane (Surr)	87		75 - 120				06/03/22 13:00	06/16/22 13:51	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 13:00	06/16/22 13:51	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 13:00	06/16/22 13:51	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-6

Lab Sample ID: 500-217596-6

Date Collected: 06/03/22 13:03

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.4		14	8.4	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Ethylbenzene	<11		14	11	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Naphthalene	<19		58	19	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Toluene	<8.5		14	8.5	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124				06/03/22 13:03	06/16/22 14:17	50
Dibromofluoromethane (Surr)	85		75 - 120				06/03/22 13:03	06/16/22 14:17	50
1,2-Dichloroethane-d4 (Surr)	83		75 - 126				06/03/22 13:03	06/16/22 14:17	50
Toluene-d8 (Surr)	97		75 - 120				06/03/22 13:03	06/16/22 14:17	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-7

Lab Sample ID: 500-217596-7

Date Collected: 06/03/22 13:06

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Toluene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				06/03/22 13:06	06/16/22 14:42	50
Dibromofluoromethane (Surr)	87		75 - 120				06/03/22 13:06	06/16/22 14:42	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126				06/03/22 13:06	06/16/22 14:42	50
Toluene-d8 (Surr)	97		75 - 120				06/03/22 13:06	06/16/22 14:42	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-8

Lab Sample ID: 500-217596-8

Date Collected: 06/03/22 13:10

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.5		14	8.5	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Ethylbenzene	<11		14	11	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Naphthalene	<19		58	19	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Toluene	<8.5		14	8.5	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124	06/03/22 13:10	06/16/22 15:08	50
Dibromofluoromethane (Surr)	89		75 - 120	06/03/22 13:10	06/16/22 15:08	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126	06/03/22 13:10	06/16/22 15:08	50
Toluene-d8 (Surr)	98		75 - 120	06/03/22 13:10	06/16/22 15:08	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-9

Lab Sample ID: 500-217596-9

Date Collected: 06/03/22 13:15

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 90.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.9		15	8.9	ug/Kg	✱	06/03/22 13:15	06/16/22 15:33	50
Ethylbenzene	<11		15	11	ug/Kg	✱	06/03/22 13:15	06/16/22 15:33	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	✱	06/03/22 13:15	06/16/22 15:33	50
Naphthalene	<20		61	20	ug/Kg	✱	06/03/22 13:15	06/16/22 15:33	50
Toluene	<8.9		15	8.9	ug/Kg	✱	06/03/22 13:15	06/16/22 15:33	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	✱	06/03/22 13:15	06/16/22 15:33	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	✱	06/03/22 13:15	06/16/22 15:33	50
Xylenes, Total	<13		30	13	ug/Kg	✱	06/03/22 13:15	06/16/22 15:33	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				06/03/22 13:15	06/16/22 15:33	50
Dibromofluoromethane (Surr)	86		75 - 120				06/03/22 13:15	06/16/22 15:33	50
1,2-Dichloroethane-d4 (Surr)	83		75 - 126				06/03/22 13:15	06/16/22 15:33	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 13:15	06/16/22 15:33	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-10

Lab Sample ID: 500-217596-10

Date Collected: 06/03/22 13:20

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.7		15	8.7	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Naphthalene	<20		60	20	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Toluene	<8.8		15	8.8	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
1,2,4-Trimethylbenzene	<21		60	21	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124				06/03/22 13:20	06/16/22 15:58	50
Dibromofluoromethane (Surr)	84		75 - 120				06/03/22 13:20	06/16/22 15:58	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126				06/03/22 13:20	06/16/22 15:58	50
Toluene-d8 (Surr)	99		75 - 120				06/03/22 13:20	06/16/22 15:58	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

Date Collected: 06/03/22 13:25

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 90.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.8		15	8.8	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Naphthalene	<20		60	20	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Toluene	<8.9		15	8.9	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
1,2,4-Trimethylbenzene	<22		60	22	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124	06/03/22 13:25	06/16/22 16:23	50
Dibromofluoromethane (Surr)	89		75 - 120	06/03/22 13:25	06/16/22 16:23	50
1,2-Dichloroethane-d4 (Surr)	87		75 - 126	06/03/22 13:25	06/16/22 16:23	50
Toluene-d8 (Surr)	96		75 - 120	06/03/22 13:25	06/16/22 16:23	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Date Collected: 06/03/22 13:30

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Ethylbenzene	1100		15	11	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Toluene	12 J B		15	8.7	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
1,2,4-Trimethylbenzene	9400		59	21	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
1,3,5-Trimethylbenzene	3100		59	23	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Xylenes, Total	3100		30	13	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124				06/03/22 13:30	06/16/22 16:50	50
Dibromofluoromethane (Surr)	88		75 - 120				06/03/22 13:30	06/16/22 16:50	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126				06/03/22 13:30	06/16/22 16:50	50
Toluene-d8 (Surr)	99		75 - 120				06/03/22 13:30	06/16/22 16:50	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-217596-13

Date Collected: 06/03/22 10:00

Matrix: Solid

Date Received: 06/04/22 09:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Naphthalene	<17		50	17	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Toluene	<7.4		13	7.4	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
1,2,4-Trimethylbenzene	32	J	50	18	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Xylenes, Total	<11		25	11	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124				06/03/22 10:00	06/16/22 17:17	50
Dibromofluoromethane (Surr)	86		75 - 120				06/03/22 10:00	06/16/22 17:17	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 10:00	06/16/22 17:17	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 10:00	06/16/22 17:17	50

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

GC/MS VOA

Prep Batch: 661137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-1	S-1	Total/NA	Solid	5035	
500-217596-2	S-2	Total/NA	Solid	5035	
500-217596-3	S-3	Total/NA	Solid	5035	
500-217596-4	S-4	Total/NA	Solid	5035	
500-217596-5	S-5	Total/NA	Solid	5035	
500-217596-6	S-6	Total/NA	Solid	5035	
500-217596-7	S-7	Total/NA	Solid	5035	
500-217596-8	S-8	Total/NA	Solid	5035	
500-217596-9	S-9	Total/NA	Solid	5035	
500-217596-10	S-10	Total/NA	Solid	5035	
500-217596-11	S-11	Total/NA	Solid	5035	
500-217596-12	S-12	Total/NA	Solid	5035	
500-217596-13	Trip Blank	Total/NA	Solid	5035	
LB3 500-661137/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-661137/22-A	Lab Control Sample	Total/NA	Solid	5035	
500-217596-2 MS	S-2	Total/NA	Solid	5035	
500-217596-2 MSD	S-2	Total/NA	Solid	5035	

Analysis Batch: 661273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-661137/21-A	Method Blank	Total/NA	Solid	8260B	661137
MB 500-661273/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-661137/22-A	Lab Control Sample	Total/NA	Solid	8260B	661137
LCS 500-661273/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 661438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-1	S-1	Total/NA	Solid	8260B	661137
500-217596-2	S-2	Total/NA	Solid	8260B	661137
500-217596-3	S-3	Total/NA	Solid	8260B	661137
500-217596-4	S-4	Total/NA	Solid	8260B	661137
500-217596-5	S-5	Total/NA	Solid	8260B	661137
500-217596-6	S-6	Total/NA	Solid	8260B	661137
500-217596-7	S-7	Total/NA	Solid	8260B	661137
500-217596-8	S-8	Total/NA	Solid	8260B	661137
500-217596-9	S-9	Total/NA	Solid	8260B	661137
500-217596-10	S-10	Total/NA	Solid	8260B	661137
500-217596-11	S-11	Total/NA	Solid	8260B	661137
500-217596-12	S-12	Total/NA	Solid	8260B	661137
500-217596-13	Trip Blank	Total/NA	Solid	8260B	661137
MB 500-661438/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-661438/4	Lab Control Sample	Total/NA	Solid	8260B	
500-217596-2 MS	S-2	Total/NA	Solid	8260B	661137
500-217596-2 MSD	S-2	Total/NA	Solid	8260B	661137

General Chemistry

Analysis Batch: 659958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-1	S-1	Total/NA	Solid	Moisture	
500-217596-2	S-2	Total/NA	Solid	Moisture	

Eurofins Chicago

QC Association Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

General Chemistry (Continued)

Analysis Batch: 659958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-3	S-3	Total/NA	Solid	Moisture	
500-217596-4	S-4	Total/NA	Solid	Moisture	
500-217596-5	S-5	Total/NA	Solid	Moisture	
500-217596-6	S-6	Total/NA	Solid	Moisture	
500-217596-7	S-7	Total/NA	Solid	Moisture	
500-217596-8	S-8	Total/NA	Solid	Moisture	
500-217596-9	S-9	Total/NA	Solid	Moisture	
500-217596-10	S-10	Total/NA	Solid	Moisture	
500-217596-11	S-11	Total/NA	Solid	Moisture	
500-217596-12	S-12	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-217596-1	S-1	95	89	85	96
500-217596-2	S-2	96	89	84	95
500-217596-2 MS	S-2	96	90	83	99
500-217596-2 MSD	S-2	96	88	82	99
500-217596-3	S-3	96	87	84	98
500-217596-4	S-4	96	86	85	96
500-217596-5	S-5	98	87	85	96
500-217596-6	S-6	97	85	83	97
500-217596-7	S-7	98	87	84	97
500-217596-8	S-8	96	89	86	98
500-217596-9	S-9	98	86	83	96
500-217596-10	S-10	97	84	84	99
500-217596-11	S-11	100	89	87	96
500-217596-12	S-12	101	88	86	99
500-217596-13	Trip Blank	97	86	85	96
LB3 500-661137/21-A	Method Blank	108	102	107	97
LCS 500-661137/22-A	Lab Control Sample	103	108	110	98
LCS 500-661273/4	Lab Control Sample	109	105	110	111
LCS 500-661438/4	Lab Control Sample	90	91	81	98
MB 500-661273/6	Method Blank	112	106	107	98
MB 500-661438/6	Method Blank	97	86	84	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-661137/21-A
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661137

Analyte	LB3	LB3	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<7.3		13	7.3	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Naphthalene	<17		50	17	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Toluene	9.92	J	13	7.4	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Xylenes, Total	<11		25	11	ug/Kg		06/14/22 11:30	06/15/22 15:59	50

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	108		72 - 124	06/14/22 11:30	06/15/22 15:59	50
Dibromofluoromethane (Surr)	102		75 - 120	06/14/22 11:30	06/15/22 15:59	50
1,2-Dichloroethane-d4 (Surr)	107		75 - 126	06/14/22 11:30	06/15/22 15:59	50
Toluene-d8 (Surr)	97		75 - 120	06/14/22 11:30	06/15/22 15:59	50

Lab Sample ID: LCS 500-661137/22-A
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661137

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	2500	2570		ug/Kg		103	70 - 120
Ethylbenzene	2500	2540		ug/Kg		101	70 - 123
Methyl tert-butyl ether	2500	2870		ug/Kg		115	55 - 123
Naphthalene	2500	3400		ug/Kg		136	53 - 144
Toluene	2500	2440		ug/Kg		98	70 - 125
1,2,4-Trimethylbenzene	2500	2590		ug/Kg		103	70 - 123
1,3,5-Trimethylbenzene	2500	2650		ug/Kg		106	70 - 123
Xylenes, Total	5000	5000		ug/Kg		100	70 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		72 - 124
Dibromofluoromethane (Surr)	108		75 - 120
1,2-Dichloroethane-d4 (Surr)	110		75 - 126
Toluene-d8 (Surr)	98		75 - 120

Lab Sample ID: 500-217596-2 MS
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 661137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Benzene	<8.5		2900	2680		ug/Kg	⊛	92	70 - 120
Ethylbenzene	<11		2900	2940		ug/Kg	⊛	101	70 - 123
Methyl tert-butyl ether	<23		2900	2310		ug/Kg	⊛	80	55 - 123
Naphthalene	<19		2900	2370		ug/Kg	⊛	82	53 - 144
Toluene	<8.5		2900	2790		ug/Kg	⊛	96	70 - 125
1,2,4-Trimethylbenzene	<21		2900	2930		ug/Kg	⊛	101	70 - 123
1,3,5-Trimethylbenzene	<22		2900	3060		ug/Kg	⊛	105	70 - 123
Xylenes, Total	<13		5800	5690		ug/Kg	⊛	98	70 - 125

Eurofins Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane (Surr)	90		75 - 120
1,2-Dichloroethane-d4 (Surr)	83		75 - 126
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: 500-217596-2 MSD
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 661137

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Benzene	<8.5		2900	2450		ug/Kg	⊛	85	70 - 120	9	30	
Ethylbenzene	<11		2900	2720		ug/Kg	⊛	94	70 - 123	8	30	
Methyl tert-butyl ether	<23		2900	2120		ug/Kg	⊛	73	55 - 123	9	30	
Naphthalene	<19		2900	2630		ug/Kg	⊛	91	53 - 144	10	30	
Toluene	<8.5		2900	2640		ug/Kg	⊛	91	70 - 125	6	30	
1,2,4-Trimethylbenzene	<21		2900	2720		ug/Kg	⊛	94	70 - 123	7	30	
1,3,5-Trimethylbenzene	<22		2900	2830		ug/Kg	⊛	98	70 - 123	8	30	
Xylenes, Total	<13		5800	5250		ug/Kg	⊛	90	70 - 125	8	30	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane (Surr)	88		75 - 120
1,2-Dichloroethane-d4 (Surr)	82		75 - 126
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: MB 500-661273/6
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.25	0.15	ug/Kg			06/15/22 12:46	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			06/15/22 12:46	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			06/15/22 12:46	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			06/15/22 12:46	1
Toluene	<0.15		0.25	0.15	ug/Kg			06/15/22 12:46	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			06/15/22 12:46	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			06/15/22 12:46	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			06/15/22 12:46	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	112		72 - 124		06/15/22 12:46	1
Dibromofluoromethane (Surr)	106		75 - 120		06/15/22 12:46	1
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		06/15/22 12:46	1
Toluene-d8 (Surr)	98		75 - 120		06/15/22 12:46	1

Lab Sample ID: LCS 500-661273/4
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	50.0	46.9		ug/Kg		94	70 - 120

Eurofins Chicago

QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-661273/4
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	49.6		ug/Kg		99	70 - 123
Methyl tert-butyl ether	50.0	45.4		ug/Kg		91	55 - 123
Naphthalene	50.0	61.1		ug/Kg		122	53 - 144
Toluene	50.0	49.4		ug/Kg		99	70 - 125
1,2,4-Trimethylbenzene	50.0	52.0		ug/Kg		104	70 - 123
1,3,5-Trimethylbenzene	50.0	54.1		ug/Kg		108	70 - 123
Xylenes, Total	100	97.3		ug/Kg		97	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		72 - 124
Dibromofluoromethane (Surr)	105		75 - 120
1,2-Dichloroethane-d4 (Surr)	110		75 - 126
Toluene-d8 (Surr)	111		75 - 120

Lab Sample ID: MB 500-661438/6
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			06/16/22 11:41	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			06/16/22 11:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			06/16/22 11:41	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			06/16/22 11:41	1
Toluene	<0.15		0.25	0.15	ug/Kg			06/16/22 11:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			06/16/22 11:41	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			06/16/22 11:41	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			06/16/22 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124		06/16/22 11:41	1
Dibromofluoromethane (Surr)	86		75 - 120		06/16/22 11:41	1
1,2-Dichloroethane-d4 (Surr)	84		75 - 126		06/16/22 11:41	1
Toluene-d8 (Surr)	98		75 - 120		06/16/22 11:41	1

Lab Sample ID: LCS 500-661438/4
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	54.3		ug/Kg		109	70 - 120
Ethylbenzene	50.0	60.0		ug/Kg		120	70 - 123
Methyl tert-butyl ether	50.0	46.0		ug/Kg		92	55 - 123
Naphthalene	50.0	48.3		ug/Kg		97	53 - 144
Toluene	50.0	56.1		ug/Kg		112	70 - 125
1,2,4-Trimethylbenzene	50.0	59.1		ug/Kg		118	70 - 123
1,3,5-Trimethylbenzene	50.0	61.4		ug/Kg		123	70 - 123
Xylenes, Total	100	117		ug/Kg		117	70 - 125

QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-661438/4

Matrix: Solid

Analysis Batch: 661438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		72 - 124
Dibromofluoromethane (Surr)	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	81		75 - 126
Toluene-d8 (Surr)	98		75 - 120

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Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-1
Date Collected: 06/03/22 12:40
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-1
Date Collected: 06/03/22 12:40
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-1
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:40	WRE	TAL CHI
Total/NA	Analysis	8260B		100	661438	06/16/22 12:08	W1T	TAL CHI

Client Sample ID: S-2
Date Collected: 06/03/22 12:45
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-2
Date Collected: 06/03/22 12:45
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-2
Matrix: Solid
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 12:33	W1T	TAL CHI

Client Sample ID: S-3
Date Collected: 06/03/22 12:50
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-3
Date Collected: 06/03/22 12:50
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-3
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 12:59	W1T	TAL CHI

Client Sample ID: S-4
Date Collected: 06/03/22 12:55
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

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Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-4

Date Collected: 06/03/22 12:55

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-4

Matrix: Solid

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 13:25	W1T	TAL CHI

Client Sample ID: S-5

Date Collected: 06/03/22 13:00

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-5

Date Collected: 06/03/22 13:00

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-5

Matrix: Solid

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 13:51	W1T	TAL CHI

Client Sample ID: S-6

Date Collected: 06/03/22 13:03

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-6

Date Collected: 06/03/22 13:03

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-6

Matrix: Solid

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:03	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 14:17	W1T	TAL CHI

Client Sample ID: S-7

Date Collected: 06/03/22 13:06

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-7

Date Collected: 06/03/22 13:06

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-7

Matrix: Solid

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:06	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 14:42	W1T	TAL CHI

Client Sample ID: S-8

Date Collected: 06/03/22 13:10

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-8

Date Collected: 06/03/22 13:10

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-8

Matrix: Solid

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 15:08	W1T	TAL CHI

Client Sample ID: S-9

Date Collected: 06/03/22 13:15

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-9

Date Collected: 06/03/22 13:15

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-9

Matrix: Solid

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 15:33	W1T	TAL CHI

Client Sample ID: S-10

Date Collected: 06/03/22 13:20

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-10

Lab Sample ID: 500-217596-10

Date Collected: 06/03/22 13:20

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 15:58	W1T	TAL CHI

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

Date Collected: 06/03/22 13:25

Matrix: Solid

Date Received: 06/04/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

Date Collected: 06/03/22 13:25

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 16:23	W1T	TAL CHI

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Date Collected: 06/03/22 13:30

Matrix: Solid

Date Received: 06/04/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Date Collected: 06/03/22 13:30

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 16:50	W1T	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-217596-13

Date Collected: 06/03/22 10:00

Matrix: Solid

Date Received: 06/04/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 10:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 17:17	W1T	TAL CHI

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22


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Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins E v i r o m o n i t o r i n g
 Amer

Client Information		Sampler <u>Quin Lenz</u>		Lab PM Fredrick Sandie		Carrier Tracking No(s) <u>5776 05978336</u>		COC No 500-101813-44117 2	
Client Contact: Quin Lenz		Phone <u>(920) 309-4197</u>		E-Mail Sandra.Fredrick@et.eurofinsus.com		State of Origin <u>WI</u>		Page Page 1 <u>1 of 2</u>	
Company Cedar Corporation		PWS D		Analysis Requested				Job # <u>500-217596</u>	
Address 1695 Bellevue Street		Due Date Requested <u>Standard</u>		 500-217596 COC				Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaI-SO4 Q Na2S2O3 F MeOH S H2SO4 G Amchlor T TSP Dodeca hydrate H Ascorbic Acid U Acetone I Ice V MCAA J DI Water W pH 4-5 K EDTA Y Tizma L EDA Z other (specify) Other:	
City Green Bay		TAT Requested (days) <u>Standard</u>							
State Zip WI 54311		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone 715-235-9081(Tel)		PC #: Purchase Order not required							
Email quin.lenz@cedarcorp.com		VO #:							
Project Name RICHFIELD TANK PULL		Project # 50006556		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Total Number of Containers	
Site		SSOW#		8260B - PYOC-NAP					
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, D=wastefoil, BT=Tissue, A=Air)	Preservation Code		Special Instructions/Note	
1	S-1	6/3/22	1240	G	Solid	X			
2	S-2		1245		Solid	X			
3	S-3		1250		Solid	X			
4	S-4		1255		Solid	X			
5	S-5		1300		Solid	X			
6	S-6		1303		Solid	X			
7	S-7		1306		Solid	X			
8	S-8		1310			X			
9	S-9		1315			X			
10	S-10		1320			X			
11	S-11		1325			X			
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date		Time		Method of Shipment			
Relinquished by <u>[Signature]</u>		Date/Time 6/3/22 1535		Company Cedar		Received by Stephanie Hernandez		Date/Time 6/14/22 0915	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <u>43-5H 4.0+3 b</u>					

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-217596-1

Login Number: 217596

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

Attn: Ashley Wagner
Cedar Corporation
W61 N497 Washington Ave
Cedarburg Wisconsin 53012

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JOB DESCRIPTION

Millis Transfer Richfield, WI

JOB NUMBER

500-224837-1



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Case Narrative

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Job ID: 500-224837-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-224837-1

Comments

No additional comments.

Receipt

The samples were received on 11/3/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Client Sample ID: MW-1

Lab Sample ID: 500-224837-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.53		0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	1.7		0.50	0.18	ug/L	1		8260B	Total/NA
Toluene	0.59		0.50	0.15	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	2.4		1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.82	J	1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	7.2		1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: PW-1

Lab Sample ID: 500-224837-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.70	J	1.0	0.39	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-224837-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-224837-1	MW-1	Water	11/02/22 09:55	11/03/22 09:40
500-224837-2	PW-1	Water	11/02/22 10:48	11/03/22 09:40
500-224837-3	Trip Blank	Water	11/02/22 00:00	11/03/22 09:40

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Client Sample ID: MW-1

Lab Sample ID: 500-224837-1

Date Collected: 11/02/22 09:55

Matrix: Water

Date Received: 11/03/22 09:40

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.53		0.50	0.15	ug/L			11/15/22 12:24	1
Ethylbenzene	1.7		0.50	0.18	ug/L			11/15/22 12:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/15/22 12:24	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/15/22 12:24	1
Toluene	0.59		0.50	0.15	ug/L			11/15/22 12:24	1
1,2,4-Trimethylbenzene	2.4		1.0	0.36	ug/L			11/15/22 12:24	1
1,3,5-Trimethylbenzene	0.82	J	1.0	0.25	ug/L			11/15/22 12:24	1
Xylenes, Total	7.2		1.0	0.22	ug/L			11/15/22 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		72 - 124					11/15/22 12:24	1
Dibromofluoromethane (Surr)	89		75 - 120					11/15/22 12:24	1
1,2-Dichloroethane-d4 (Surr)	79		75 - 126					11/15/22 12:24	1
Toluene-d8 (Surr)	96		75 - 120					11/15/22 12:24	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Client Sample ID: PW-1

Lab Sample ID: 500-224837-2

Date Collected: 11/02/22 10:48

Matrix: Water

Date Received: 11/03/22 09:40

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/15/22 12:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/15/22 12:49	1
Methyl tert-butyl ether	0.70	J	1.0	0.39	ug/L			11/15/22 12:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/15/22 12:49	1
Toluene	<0.15		0.50	0.15	ug/L			11/15/22 12:49	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/15/22 12:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/15/22 12:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/15/22 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		72 - 124					11/15/22 12:49	1
Dibromofluoromethane (Surr)	95		75 - 120					11/15/22 12:49	1
1,2-Dichloroethane-d4 (Surr)	80		75 - 126					11/15/22 12:49	1
Toluene-d8 (Surr)	96		75 - 120					11/15/22 12:49	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-224837-3

Date Collected: 11/02/22 00:00

Matrix: Water

Date Received: 11/03/22 09:40

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			11/15/22 12:00	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/15/22 12:00	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/15/22 12:00	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/15/22 12:00	1
Toluene	<0.15		0.50	0.15	ug/L			11/15/22 12:00	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/15/22 12:00	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/15/22 12:00	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/15/22 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		72 - 124		11/15/22 12:00	1
Dibromofluoromethane (Surr)	89		75 - 120		11/15/22 12:00	1
1,2-Dichloroethane-d4 (Surr)	80		75 - 126		11/15/22 12:00	1
Toluene-d8 (Surr)	96		75 - 120		11/15/22 12:00	1

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

GC/MS VOA

Analysis Batch: 684938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224837-1	MW-1	Total/NA	Water	8260B	
500-224837-2	PW-1	Total/NA	Water	8260B	
500-224837-3	Trip Blank	Total/NA	Water	8260B	
MB 500-684938/6	Method Blank	Total/NA	Water	8260B	
LCS 500-684938/5	Lab Control Sample	Total/NA	Water	8260B	

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Surrogate Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-224837-1	MW-1	77	89	79	96
500-224837-2	PW-1	79	95	80	96
500-224837-3	Trip Blank	78	89	80	96
LCS 500-684938/5	Lab Control Sample	77	96	83	95
MB 500-684938/6	Method Blank	78	94	79	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-684938/6
Matrix: Water
Analysis Batch: 684938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.50	0.15	ug/L			11/15/22 11:34	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/15/22 11:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/15/22 11:34	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/15/22 11:34	1
Toluene	<0.15		0.50	0.15	ug/L			11/15/22 11:34	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/15/22 11:34	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/15/22 11:34	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/15/22 11:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	78		72 - 124		11/15/22 11:34	1
Dibromofluoromethane (Surr)	94		75 - 120		11/15/22 11:34	1
1,2-Dichloroethane-d4 (Surr)	79		75 - 126		11/15/22 11:34	1
Toluene-d8 (Surr)	95		75 - 120		11/15/22 11:34	1

Lab Sample ID: LCS 500-684938/5
Matrix: Water
Analysis Batch: 684938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	50.0	42.1		ug/L		84	70 - 120
Ethylbenzene	50.0	44.6		ug/L		89	70 - 123
Methyl tert-butyl ether	50.0	42.8		ug/L		86	55 - 123
Naphthalene	50.0	46.9		ug/L		94	53 - 144
Toluene	50.0	44.6		ug/L		89	70 - 125
1,2,4-Trimethylbenzene	50.0	42.7		ug/L		85	70 - 123
1,3,5-Trimethylbenzene	50.0	43.4		ug/L		87	70 - 123
Xylenes, Total	100	83.4		ug/L		83	70 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	77		72 - 124
Dibromofluoromethane (Surr)	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	83		75 - 126
Toluene-d8 (Surr)	95		75 - 120

Lab Chronicle

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Client Sample ID: MW-1

Date Collected: 11/02/22 09:55

Date Received: 11/03/22 09:40

Lab Sample ID: 500-224837-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	684938	W1T	EET CHI	11/15/22 12:24

Client Sample ID: PW-1

Date Collected: 11/02/22 10:48

Date Received: 11/03/22 09:40

Lab Sample ID: 500-224837-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	684938	W1T	EET CHI	11/15/22 12:49

Client Sample ID: Trip Blank

Date Collected: 11/02/22 00:00

Date Received: 11/03/22 09:40

Lab Sample ID: 500-224837-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	684938	W1T	EET CHI	11/15/22 12:00

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield, WI

Job ID: 500-224837-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

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Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-224837-1

Login Number: 224837

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



ANALYTICAL REPORT

PREPARED FOR

Attn: Ashley Wagner
Cedar Corporation
W61 N497 Washington Ave
Cedarburg, Wisconsin 53012

Generated 12/14/2022 3:36:05 PM

JOB DESCRIPTION

Millis Transfer Richfield

JOB NUMBER

500-226264-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Case Narrative

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Job ID: 500-226264-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-226264-1**

Comments

No additional comments.

Receipt

The samples were received on 12/3/2022 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Client Sample ID: MW-1

Lab Sample ID: 500-226264-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.26	J	0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	2.9		0.50	0.18	ug/L	1		8260B	Total/NA
Naphthalene	0.44	J	1.0	0.34	ug/L	1		8260B	Total/NA
Toluene	0.65	B	0.50	0.15	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	3.2		1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.97	J	1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	8.2		1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-226264-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.21	J B	0.50	0.15	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-226264-1	MW-1	Ground Water	12/02/22 09:00	12/03/22 09:35
500-226264-2	Trip Blank	Water	12/02/22 00:00	12/03/22 09:35

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Client Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Client Sample ID: MW-1

Lab Sample ID: 500-226264-1

Date Collected: 12/02/22 09:00

Matrix: Ground Water

Date Received: 12/03/22 09:35

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.26	J	0.50	0.15	ug/L			12/07/22 16:14	1
Ethylbenzene	2.9		0.50	0.18	ug/L			12/07/22 16:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/07/22 16:14	1
Naphthalene	0.44	J	1.0	0.34	ug/L			12/07/22 16:14	1
Toluene	0.65	B	0.50	0.15	ug/L			12/07/22 16:14	1
1,2,4-Trimethylbenzene	3.2		1.0	0.36	ug/L			12/07/22 16:14	1
1,3,5-Trimethylbenzene	0.97	J	1.0	0.25	ug/L			12/07/22 16:14	1
Xylenes, Total	8.2		1.0	0.22	ug/L			12/07/22 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124					12/07/22 16:14	1
Dibromofluoromethane (Surr)	97		75 - 120					12/07/22 16:14	1
1,2-Dichloroethane-d4 (Surr)	88		75 - 126					12/07/22 16:14	1
Toluene-d8 (Surr)	93		75 - 120					12/07/22 16:14	1

Client Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-226264-2

Date Collected: 12/02/22 00:00

Matrix: Water

Date Received: 12/03/22 09:35

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/07/22 12:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/07/22 12:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/07/22 12:39	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/07/22 12:39	1
Toluene	0.21	J B	0.50	0.15	ug/L			12/07/22 12:39	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/07/22 12:39	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/07/22 12:39	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/07/22 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124					12/07/22 12:39	1
Dibromofluoromethane (Surr)	96		75 - 120					12/07/22 12:39	1
1,2-Dichloroethane-d4 (Surr)	86		75 - 126					12/07/22 12:39	1
Toluene-d8 (Surr)	91		75 - 120					12/07/22 12:39	1

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

GC/MS VOA

Analysis Batch: 688607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226264-1	MW-1	Total/NA	Ground Water	8260B	
500-226264-2	Trip Blank	Total/NA	Water	8260B	
MB 500-688607/7	Method Blank	Total/NA	Water	8260B	
LCS 500-688607/5	Lab Control Sample	Total/NA	Water	8260B	

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Surrogate Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Ground Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-226264-1	MW-1	89	97	88	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-226264-2	Trip Blank	89	96	86	91
LCS 500-688607/5	Lab Control Sample	88	99	86	92
MB 500-688607/7	Method Blank	91	100	89	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Cedar Corporation
 Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-688607/7
Matrix: Water
Analysis Batch: 688607

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.50	0.15	ug/L			12/07/22 11:18	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/07/22 11:18	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/07/22 11:18	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/07/22 11:18	1
Toluene	0.170	J	0.50	0.15	ug/L			12/07/22 11:18	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/07/22 11:18	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/07/22 11:18	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/07/22 11:18	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	91		72 - 124		12/07/22 11:18	1
Dibromofluoromethane (Surr)	100		75 - 120		12/07/22 11:18	1
1,2-Dichloroethane-d4 (Surr)	89		75 - 126		12/07/22 11:18	1
Toluene-d8 (Surr)	93		75 - 120		12/07/22 11:18	1

Lab Sample ID: LCS 500-688607/5
Matrix: Water
Analysis Batch: 688607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	46.5		ug/L		93	70 - 123
Methyl tert-butyl ether	50.0	40.2		ug/L		80	55 - 123
Naphthalene	50.0	41.5		ug/L		83	53 - 144
Toluene	50.0	44.7		ug/L		89	70 - 125
1,2,4-Trimethylbenzene	50.0	47.5		ug/L		95	70 - 123
1,3,5-Trimethylbenzene	50.0	48.8		ug/L		98	70 - 123
Xylenes, Total	100	90.6		ug/L		91	70 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	88		72 - 124
Dibromofluoromethane (Surr)	99		75 - 120
1,2-Dichloroethane-d4 (Surr)	86		75 - 126
Toluene-d8 (Surr)	92		75 - 120

Lab Chronicle

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Client Sample ID: MW-1

Date Collected: 12/02/22 09:00

Date Received: 12/03/22 09:35

Lab Sample ID: 500-226264-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	688607	W1T	EET CHI	12/07/22 16:14

Client Sample ID: Trip Blank

Date Collected: 12/02/22 00:00

Date Received: 12/03/22 09:35

Lab Sample ID: 500-226264-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	688607	W1T	EET CHI	12/07/22 12:39

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Millis Transfer Richfield

Job ID: 500-226264-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

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Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-226264-1

Login Number: 226264

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 P.O. Box 7837, Madison, WI 53707-7837
 (608) 224-4942

Wis. Admin. Code §ATCP 93.560

FOR OFFICE USE ONLY

TANK SYSTEM SERVICE AND CLOSURE ASSESSMENT REPORT

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m) Wis. Stats.).

Complete One Form for Each System Service Event

FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE 'N/A' BOX

CHECK ONE: UNDERGROUND ABOVEGROUND

Part A - To be completed by contractor performing repair or closure

A. TYPE OF SERVICE CLOSURE REPAIR/UPGRADE CHANGE-IN-SERVICE

Indicate portion of system being serviced if a repair, upgrade or change-in-service is being performed

Remote fill Tank Piping Transition/containment sump Spill bucket Dispenser

B. IDENTIFICATION

OWNER INFORMATION

OWNER NAME MILLIS TRANSFER INC	CONTACT NAME CRAIG SCHMIDT	TITLE
MAILING ADDRESS P.O. BOX 550	<input type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE BLACK RIVER FALLS	STATE ZIP WI 54615
TELEPHONE: (715) 299 - 2319	E-MAIL	

SITE INFORMATION

FACILITY NAME MILLIS TRANSFER INC	<input type="checkbox"/> CITY <input type="checkbox"/> TOWN <input checked="" type="checkbox"/> VILLAGE RICHFIELD	STATE ZIP WI 53076
SITE ADDRESS (Not PO Box) 3001 STATE RD 167 W		

SERVICE CONTRACTOR INFORMATION

PRIMARY SERVICE CONTRACTOR Section A Above ADVANCED TANK SERVICE, INC	SERVICE CONTRACTOR CERT ID # 507193	TELEPHONE: (715) 831 - 8484	CELL: (715) 579 - 8324
STREET ADDRESS P.O. BOX 1072	<input type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE EAU CLAIRE	STATE ZIP WI 54702	

C. TANK SYSTEM DETAIL (Complete for all service activities)

a	b	c	d	e	f	g	h	
Tank ID #	Type of Closure ¹	Tank Material of Construction	Piping Material of Construction	Tank Capacity (gallons)	Contents ²	Release - System Integrity Compromised (e.g. holes, cracks, loose connection,	If "Yes" to "g", Then Specify Source and Cause of Release ³	
							Source of Release ³	Cause of Release ⁴
113523	P	STEEL	FRP	15000	DL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		

- Indicate type of closure: P = Permanent, TOS = Temporarily Out-of-Service, CIP = Closure In-Place
- Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, PX = Premix, WO = Waste/Used Motor Oil, FCHZW = Flammable/Combustible Hazardous Waste, OC = Other Chemical (indicate the chemical name(s):
- CAS number(s):
- Source of release: T = tank, P = piping, D = dispenser, STP = submersible turbine pump, DP = delivery problem, O = other, UNK = Unknown
- Cause of release:
S = spill, O = overflow, POMD = physical or mechanical damage, C = corrosion, IP = installation problem, O = other, UNK = Unknown
- Has release been reported to the Department of Natural Resources? Yes No Release not evident at this time (pending sample analysis)

D. CLOSURES (Check applicable box at right in response to all statements in section D)

Written notification was provided to the local agent 5 days in advance of closure date. Yes No

All local permits were obtained before beginning closure. Yes No NA

UST Form TR-WM-137 or AST Form TR-WM-118 filed by owner with the DATCP indicating closure. Yes No NA

NOTE: TANK INVENTORY FORM TR-WM-137 or TR-WM-118 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE or CHANGE-IN-SERVICE CHECKLIST

D. CLOSURE BY REMOVAL OR IN-PLACE

1. General Requirements	Remover Verified	Inspector Verified	Inspector Not Present	NA
a. Product from piping drained into tank (or other container).	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Piping disconnected from tank and removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. All liquid and residue removed from tank using explosion-proof pumps or hand pumps prior to removing tank from excavation.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
d. All pump motors and suction hoses bonded to tank or otherwise grounded.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
e. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
f. Vent lines left connected until tanks purged.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
g. Tank openings temporarily plugged so vapors exit through vent.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
h. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section E.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

2. Specific Closure-by-Removal Requirements

a. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Tank cleaned before being removed from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. Tank labeled in full compliance with API 1604 after removal but before being moved from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; MONTH/DAY/YEAR OF REMOVAL

d. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. Site security is provided while the excavation is open.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

3. Specific Closure-In-Place Requirements

NOTE: CLOSURES IN-PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION (DATCP) OR LOCAL AGENT.

a. Tank properly cleaned to remove all sludge and residue.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Solid inert material (sand, cyclone boiler slag, or pea gravel recommended) introduced and tank filled.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. Vent line disconnected or removed.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
d. Inventory form filed by owner with DATCP indicating closure in-place.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

E. REPAIR, UPGRADE OR CHANGE-IN-SERVICE

Written notification was provided to the local agent 5 days in advance of service date.

Y N NA

All local permits were obtained before beginning service.

Y N NA

Form TR-WM-137 or 0 TR-WM-118 filed by owner with DATCP indicating change-in-service.

Y N NA

F. METHOD OF VAPOR FREEING OF TANK

Displacement of vapors by 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.

Inert gas using dry ice or liquid carbon dioxide.

Inert gas using CO2 or N2 **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. LEL METERS MAY NOT FUNCTION ACCURATELY. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.**

Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.

Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.

Readings of 10% or less of the lower flammable range (LEL) or <5% oxygen obtained before removing tank from ground.

Tank atmosphere monitored for flammable or combustible vapor levels prior to and during cleaning and cutting.

Calibrate combustible gas indicator and/or oxygen meter prior to use. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank.

G. REMOVER/CLEANER INFORMATION

REMOVER/CLEANER NAME (PRINT): Sustin Robinson REMOVER/CLEANER SIGNATURE: [Signature] CERTIFICATION #: 401548 DATE TANK REMOVED: 6-3-22

I attest that the procedures and information which I have provided as the tank closure contractor are correct and comply with ATCP 93.

Company expected to perform soil contamination assessment: cedar corp 401889

H. INSPECTOR INFORMATION

Jason Karczewski

INSPECTOR NAME (PRINT):

Jason Karczewski

INSPECTOR SIGNATURE

468444

INSPECTOR CERTIFICATION #

DATCP

LPO AGENCY/COMPANY NAME

6610 Richfield

FDID # FOR LOCATION WHERE INSPECTION PERFORMED

(262) 307-6440

INSPECTOR TELEPHONE NUMBER

6/3/22

DATE SIGNED

INSPECTOR NOTES:

Part B – To be completed by environmental professional - Submit original Part B to the WDNR along with a copy of Part A

I. TANK-SYSTEM SITE ASSESSMENT (TSSA)

SITE NAME - *Note: SITE NAME and address MUST MATCH with Part A Section 1.*

Millis Transfer LLC

SITE ADDRESS (Not PO Box) 3001 State HWY 167	<input checked="" type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE	STATE	ZIP
	Richfield	WI	53076

To determine if a TSSA is required, see ATCP 93 and section II part B of *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS*.

If a TSSA is required, then follow the procedures detailed in *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS*

1. Site Information

- a. Has there been a previously documented release at this site? Y N
If yes, provide the DATCP # _____ or DNR BRRT's # _____
- b. Number of active tanks at facility prior to completion of current services: USTs 1 ASTs 0
(NOTE 1: Do not include previously closed systems or system components.)
- c. Excavation/trench dimensions (in feet). (Photos must be provided.)

EXCAVATION/TRENCH #	LENGTH	WIDTH	DEPTH
Tank Bed	34	17	12
Piping	24	4	3

2. Visual Excavation/Trench Inspection (Photos must be provided for "Yes" responses, except item b.)

Do any of the following conditions exist in or about the excavation(s)?

- a. Stained soils: Yes No
- b. Petroleum odor: Yes No
- c. Water In excavation/trench: Yes No
- d. Free product in the excavation/trench: Yes No
- e. Sheen or free product on water: Yes No

3. Geology/Hydrogeology

- a. Depth to groundwater 13 feet
- b. Indicate type of geology² Silty sand

4. Receptors

- a. Water supply well(s) within 250 feet of the facility? Yes No If yes, specify: Potable well on site, specific location unknown
- b. Surface water(s) within 1000 feet of the facility? Yes No If yes, specify: _____

5. Sampling

- a. Follow the procedures detailed in *ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS*.
- b. Complete Tables 1 and 2 as appropriate. (Attach chain-of-custody and laboratory analytical reports.)
- c. Attach a detailed map of site features and sample locations.

J. NOTE RELEVANT OBSERVATIONS, SPECIFIC PROBLEMS OR CONCERNS BELOW

Groundwater was encountered in the bottom of the excavation. No base samples were collected. Sidewall samples were collected approximately 12 feet below ground surface, just above the water table. Soil samples S-1 and S-12 had elevated PID readings. The western tank wall was approximately 8 feet from the master pump. Soil sample S-1 was collected approximately 3 feet below the master pump. Soil sample S-12 was collected from the west side wall at approximately 12 feet. Sample S-12 acts as a confirmation sample from beneath soil sample S-1. 1,2,4-Trimethylbenzene was detected in the trip blank at 32J micrograms per kilogram, the result was detected between the laboratory limit of detection and the limit of quantification.

TABLE 1 SOIL FIELD SCREENING & GRO/DRO LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	Sample Location & Soil/Geologic Description	Sample Collection Method				Depth Below Tank/Piping (feet)	Field Screening Result (ppm)	GRO (mg/kg)	DRO (mg/kg)
		Grab	Shelby Tube	Direct Push	Split Spoon				
S-1	East master piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	130.4		
S-2	South satellite piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	0.7		
S-3	West master piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	0.2		
S-4	North satellite piping / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-3	0.2		
S-5	Southwest wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.4		
S-6	South wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.3		
S-7	Southeast wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.2		
S-8	Northwest wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.4		
S-9	North wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	0.5		
S-10	Northeast wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	1.0		
S-11	East wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	1.4		
S-12	West wall / Silty sand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-12	171.1		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

TABLE 2 SOIL LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	BENZENE	TOLUENE	ETHYLBENZENE	MTBE	TRIMETHYL - BENZENES (TOTAL)	XYLENES (TOTAL)	NAPHTHALENE
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
S-1	<17	<17	670	<45	8,200	3,300	<38
S-2	<8.5	<8.5	<11	<23	<22	<13	<19
S-3	<8.6	<8.6	<11	<23	<22	<13	<20
S-4	<8.6	<8.6	<11	<23	<22	<13	<20
S-5	<8.6	<8.7	<11	<23	<22	<13	<20
S-6	<8.4	<8.5	<11	<23	<22	<13	<19
S-7	<8.6	<8.6	<11	<23	<22	<13	<20
S-8	<8.5	<8.5	<11	<23	<22	<13	<19
S-9	<8.9	<8.9	<11	<24	<23	<13	<20
S-10	<8.7	<8.8	<11	<24	<23	<13	<20
S-11	<8.8	<8.9	<11	<24	<23	<13	<20
S-12	<8.6	12JB	1,100	<23	12,500	3,100	<20
Trip Blank	<7.3	<7.4	<9.2	<20	32J	<11	<17

K. TANK-SYSTEM SITE ASSESSMENT INFORMATION

- As a tank-system site assessor certified under Wis. Admin. Code section ATCP 93.240, it is my opinion that there is no indication of a release of a regulated substance to the environment.
- Sampling at the site indicates there has been a release to the environment. Pursuant to Wis. Admin. Code section ATCP 93.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter ATCP 93 shall immediately report any release of a regulated substance to the Wisconsin Department of Natural Resources. Failure to do so may result in forfeitures of a minimum of \$10 and a maximum of \$5000 for each violation under Wis. Stats. Section 168.26 (5). Each day of continued violation and each tank are treated as separate offenses.

Quin Lenz

TANK-SYSTEM SITE ASSESSOR NAME (PRINT):



TANK-SYSTEM SITE ASSESSOR SIGNATURE

494047

CERTIFICATION NO.

(920) 491 - 9081

TANK-SYSTEM SITE ASSESSOR TELEPHONE NUMBER

6/20/2022

DATE SIGNED

Cedar Corporation

COMPANY NAME

This document can be made available in alternate formats to individuals with disabilities upon request.

Distribution: DATCP DNR Inspector Contractor Owner



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 PO Box 7837 Madison, WI 53707-7837
 (608) 224-4942

FOR OFFICE USE ONLY

 Wis. Admin. Code §ATCP 93.140

UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZARDOUS LIQUID STORAGE TANK REGISTRATION

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m) Wis. Stats.).

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered.

A separate form is needed for each tank. Send each completed form to the agency designated above.

Have you previously registered this tank by submitting a form? Yes No If yes, are you correcting/updating information only? Yes No

This registration applies to a tank piping status that is (check one): Date of status change: 6/3/2022

In Use Abandoned with Water Abandoned with Product
 Newly Installed Closed - Removed Abandoned without Product (empty)
 Temporarily Out of Service - Provide Date: Closed - Filled with Inert Materials Change of Site/Facility Address Only (complete boxes 1.a. and b. below)
 Ownership Change (Indicate new owner name in box 2 - attach deed)

IDENTIFICATION (Please Print)

1. TANK SITE NAME: MILLIS TRANSFER INC COUNTY: WASHINGTON PHONE: () -
 a. CURRENT SITE STREET ADDRESS: 3001 STATE RD 167 W CITY: RICHFIELD STATE: WI ZIP: 53076
 b. PREVIOUS SITE STREET ADDRESS: CITY: TOWN OF: STATE: ZIP:

Fire Dept. providing fire coverage where tank is located: CITY TOWN VILLAGE of: RICHFIELD #6610

2. TANK OWNER LEGAL NAME: MILLIS TRANSFER INC COUNTY: JACKSON PHONE: Check CELL or LAND (715) 299 - 2319
 MAILING ADDRESS: P.O. BOX 550 CITY: BLACK RIVER FALLS STATE: WI ZIP: 54615

3. PROPERTY OWNER NAME (if different from Tank Owner Legal Name #2) COUNTY (if different from County #2)
 PROPERTY OWNER ADDRESS (if different from Site Street Address #1) CITY: TOWN OF: STATE: ZIP:

4. CLASS A NAME: DOB: CERTIFICATION: (Attach certificate)
 5. CLASS B NAME: DOB: CERTIFICATION: (Attach certificate)

SITE ID: FACILITY ID # 412663 CUSTOMER ID #

Tank Capacity (gallons): 15000 Tank Age (age or date installed): Vehicle fueling: Yes No

LAND OWNER TYPE (Refer to back; check one): County State Federal Leased Federal Owned Tribal Nation Municipal Other Government Private

OCCUPANCY TYPE (check one) Refer to back
 Retail Fuel Sales Mercantile/Commercial Bulk Storage Terminal Storage Industrial Residential School Government Fleet
 Agricultural (crop or livestock production) Utility Backup or Emergency Generator Other (specify):

TANK CONSTRUCTION:
 Bare Steel Coated Steel Steel - Fiberglass Reinforced Plastic Composite
 Fiberglass Unknown Other (specify): Lined (date):
 Overfill Protection? Yes No
 Spill Containment? Yes No
 Tank Double Walled? Yes No

TANK CATHODIC PROTECTION: Sacrificial Anodes Impressed Current N/A

TANK LEAK DETECTION METHOD: Automatic tank gauging Interstitial monitoring Electronic Yes No Statistical Inventory Reconciliation (SIR)
 Manual tank gauging (only for tanks of 1,000 gallons or less) Unknown

PIPING CONSTRUCTION: Single Wall Double Wall:
 Bare Steel Coated Steel Fiberglass Flexible Copper Unknown N/A Other:

PIPING CATHODIC PROTECTION: Sacrificial Anodes Impressed Current N/A

PRIMARY PIPING SYSTEM TYPE: Pressurized piping with A. Pump auto shutoff - ELLD B. Flow restrictor - MLLD Unknown
 Suction piping with check valve at tank Suction piping with check valve at pump and inspectable Not needed if waste oil

PIPING LEAK DETECTION METHOD: Interstitial monitoring Electronic Yes No Sump or cable sensor Yes No
 Tightness testing Electronic line monitor - ELLD SIR Not required Unknown

TANK CONTENTS Current, or previous product (if tank now empty) (* = NOT PECFA eligible) Leaded Unleaded Gas-ethanol blend: ___ % ethanol Diesel
 Bio-Diesel: ___ % Hazardous Waste/Interface* Kerosene Fuel Oil Premix New Oil New oil - Flash point less than 200°F
 Waste/Used Motor Oil Used for Heating Aviation Empty* Sand/Gravel/Slurry* Unknown
 Other (specify): Chemical* Name: CAS#

Has a site assessment been completed? (see reverse side for details) Yes No

TANK OWNER LEGAL NAME (please print): Christopher Schwenke TANK OWNER E-MAIL:

TANK OWNER SIGNATURE (Note: By signing, signer is accepting legal and financial responsibility for the storage tank system.): DATE:

Note: Refer to comments on reverse side of form.



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 Storage Tank Regulation, PO Box 7837, Madison, WI 53707-7837
 Phone: (608) 224-4942

Wis. Admin. Code §ATCP 93.115
 §ATCP 93.350

ATCP 93 NOTIFICATION RECORD

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m), Wis. Stats.)

TO: *Darren Leone*

OFFICE LOCATION: *DATCP*

(Refer to https://datcp.wi.gov/Pages/Programs_Services/StorageTankContacts.aspx for a jurisdiction's authorized agent/department.)

Note: Only the notification form is required for non-flammable, non-combustible, hazardous liquid, or CERCLA tanks greater than or equal to 5,000 gallon capacity that are under the direct supervision of a qualified engineer. A plan review is not required. (ATCP 93.350(2)(b)).

LOCATION / IDENTIFICATION

SITE NAME <i>Millis Transfer Inc</i>		FACILITY NUMBER <i>412663</i>	FIRE DEPT. PROVIDING FIRE PROTECTION COVERAGE <i>Richfield # 6610</i>			
SITE STREET ADDRESS <i>3001 State Road 167 W</i>		<input type="checkbox"/> CITY	<input type="checkbox"/> TOWN	<input checked="" type="checkbox"/> VILLAGE	STATE <i>WI</i>	ZIP <i>53076</i>
OWNER NAME <i>Millis Transfer Inc</i>		PHONE NUMBER <i>() -</i>	TANK OWNER EMAIL			
OWNER STREET ADDRESS <i>P.O. Box 550</i>		<input type="checkbox"/> CITY	<input type="checkbox"/> TOWN	<input type="checkbox"/> VILLAGE	STATE <i>WI</i>	ZIP <i>54615</i>
CONTRACTOR NAME <i>ADVANCED TANK SERVICE, INC</i>		PHONE NUMBER <i>(715) 831 - 8484</i>	CELL NUMBER <i>(715) 579 - 8324</i>	EMAIL <i>molson@adv-tank.com</i>		
STREET ADDRESS <i>P.O. BOX 1072</i>		<input type="checkbox"/> CITY	<input type="checkbox"/> TOWN	<input type="checkbox"/> VILLAGE	STATE <i>WI</i>	ZIP <i>54702</i>
DATE WORK IS TO BEGIN	DATE/TIME REQUESTED FOR TANK INSPECTION <i>6/3 1:30pm</i>	ATCP 93 CERTIFIED INSTALLER SUPERVISOR OR QUALIFIED ENGINEER <i>Justin Peloguin</i>				

PROJECT WILL INVOLVE: (Check all that apply) Plan Approval No.: Approval Date:

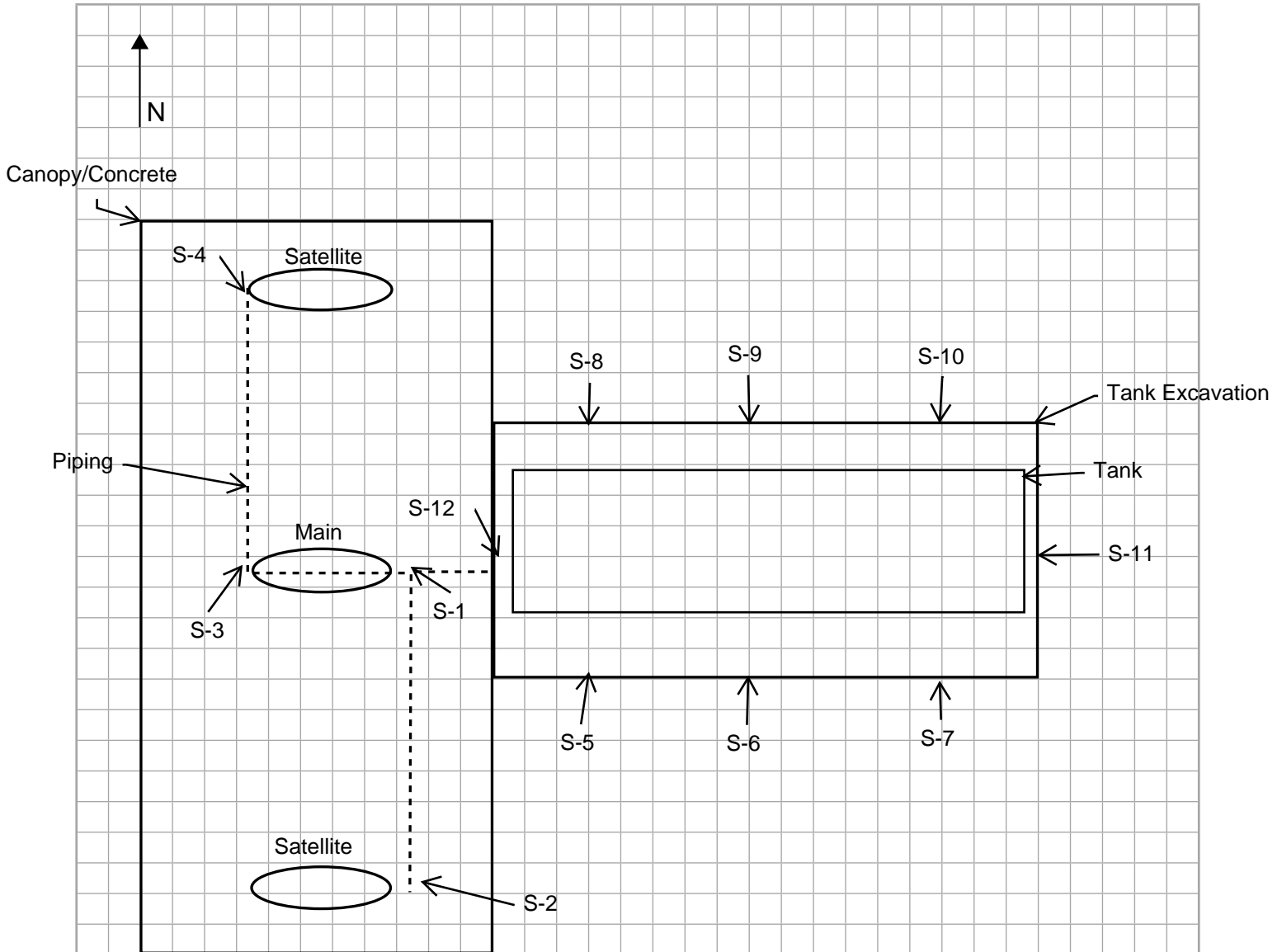
	UST	AST	No. of Tanks	Comments:
Tank Installation	<input type="checkbox"/>	<input type="checkbox"/>		<i>15K DSL</i> <i>TSSA: Cedar Corporation</i>
Dispenser POS Conversion	<input type="checkbox"/>	<input type="checkbox"/>		
Piping Installation or Upgrade	<input type="checkbox"/>	<input type="checkbox"/>		
Leak Detection Upgrade	<input type="checkbox"/>	<input type="checkbox"/>		
Spill or Overfill Protection	<input type="checkbox"/>	<input type="checkbox"/>		
Cathodic Protection or Interior Lining	<input type="checkbox"/>	<input type="checkbox"/>		
CERCLA Chemical Tank(s) Only ¹	<input type="checkbox"/>	<input type="checkbox"/>		
Tank Closure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>1</i>	
Alternative Fuel Storage Tank Installation ^{2,3,5} (see footnotes below)	<input type="checkbox"/>	<input type="checkbox"/>		
Alternative Fuel Storage Tank Conversion ^{4,5} (see footnotes below)	<input type="checkbox"/>	<input type="checkbox"/>		

¹Send Notice to DATCP (see address above). Installation inspection is not required if construction/installation is supervised by a qualified engineer.
²For LPO installations send notice to both the assigned LPO and DATCP General Inspection Inspector. DATCP General Inspection Inspector will be at the final inspection only. Alternative fuel storage tank systems shall not begin operation until the DATCP General Inspection Inspector has granted approval.
³For DATCP installation inspections send notice to only the assigned DATCP Installation Inspector. Alternative fuel storage tank systems shall not begin operation until the DATCP general inspector has granted approval.
⁴Send notice to only the DATCP General Inspection Inspector.
⁵See Conditional Approval letter and Notification email for Installation and general inspector information.

For USTs: If an Owner/Operator intends to begin operation immediately after the final inspection, they shall prepare and submit the documentation listed below at least 15 days prior to the final inspection:

- A TR-WM-137 Underground Flammable/Combustible Liquid Storage Tank Registration.
- A Wisconsin Operator Training Designation form.
- Affidavit of Financial Responsibility, certificate of insurance, and site schedule of covered locations and storage tanks.

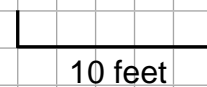
Figure 1 - Detailed Site Map



Notes:

- Tank size ~ 9'x32'.
- Tank excavation ~ 34'x17'.
- Piping samples collected at 3' below ground surface (bgs).
- Tank samples collected at 12' bgs.
- No base samples due to groundwater encountered at 13' bgs.

Scale



Client Name:
Wisconsin Department of Natural Resources

Site Location:
3001 State Highway 167, Richfield WI

Project No.
00590-0009

Photo No.
1

Date:
6/3/2022

Direction Photo Taken:

Northwest

Description:

View of the tank location prior to removal.



Photo No.
2

Date:
6/3/2022

Direction Photo Taken:

East

Description:

View of the tank during removal.



Photo No. 3	Date: 6/3/2022
Direction Photo Taken: Northwest	
Description: 15,000-gallon tank removed from the Site.	



Photo No. 4	Date: 6/3/2022
Direction Photo Taken: West	
Description: Area of the tank excavation.	



Photo No. 5	Date: 6/3/2022
Direction Photo Taken: South	
Description: View of the south sidewall of the tank excavation.	



Photo No. 6	Date: 6/3/2022
Direction Photo Taken: Southwest	
Description: View of the west sidewall of the tank excavation	



Photo No. 7	Date: 6/3/2022
Direction Photo Taken: Northwest	
Description: View of the north sidewall of the tank excavation.	



Photo No. 8	Date: 6/3/2022
Direction Photo Taken: Northeast	
Description: View of the east sidewall of the tank excavation.	



Photo No. 9	Date: 6/3/2022
Direction Photo Taken: North	
Description: View of the pipe excavation running from the main to the northern satellite.	



Photo No. 10	Date: 6/3/2022
Direction Photo Taken: North	
Description: View of the pipe excavation running from the main to the northern satellite.	



ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-217596-1
Client Project/Site: Richfield Tank Pull

For:
Cedar Corporation
1695 Bellevue Street
Green Bay, Wisconsin 54311

Attn: Quin Lenz



Authorized for release by:
6/20/2022 7:46:03 AM

Sandie Fredrick, Project Manager II
(920)261-1660
Sandra.Fredrick@et.eurofinsus.com

LINKS

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results through



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Job ID: 500-217596-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-217596-1**

Comments

No additional comments.

Receipt

The samples were received on 6/4/2022 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

Method 8260B: The following sample was diluted due to the abundance of non-target analytes: S-1 (500-217596-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Detection Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-1

Lab Sample ID: 500-217596-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	670		29	21	ug/Kg	100	✳	8260B	Total/NA
1,2,4-Trimethylbenzene	5700		110	41	ug/Kg	100	✳	8260B	Total/NA
1,3,5-Trimethylbenzene	2500		110	44	ug/Kg	100	✳	8260B	Total/NA
Xylenes, Total	3300		57	25	ug/Kg	100	✳	8260B	Total/NA

Client Sample ID: S-2

Lab Sample ID: 500-217596-2

No Detections.

Client Sample ID: S-3

Lab Sample ID: 500-217596-3

No Detections.

Client Sample ID: S-4

Lab Sample ID: 500-217596-4

No Detections.

Client Sample ID: S-5

Lab Sample ID: 500-217596-5

No Detections.

Client Sample ID: S-6

Lab Sample ID: 500-217596-6

No Detections.

Client Sample ID: S-7

Lab Sample ID: 500-217596-7

No Detections.

Client Sample ID: S-8

Lab Sample ID: 500-217596-8

No Detections.

Client Sample ID: S-9

Lab Sample ID: 500-217596-9

No Detections.

Client Sample ID: S-10

Lab Sample ID: 500-217596-10

No Detections.

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

No Detections.

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1100		15	11	ug/Kg	50	✳	8260B	Total/NA
Toluene	12	J B	15	8.7	ug/Kg	50	✳	8260B	Total/NA
1,2,4-Trimethylbenzene	9400		59	21	ug/Kg	50	✳	8260B	Total/NA
1,3,5-Trimethylbenzene	3100		59	23	ug/Kg	50	✳	8260B	Total/NA
Xylenes, Total	3100		30	13	ug/Kg	50	✳	8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-217596-13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	32	J	50	18	ug/Kg	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Euromins Chicago

Method Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-217596-1	S-1	Solid	06/03/22 12:40	06/04/22 09:15
500-217596-2	S-2	Solid	06/03/22 12:45	06/04/22 09:15
500-217596-3	S-3	Solid	06/03/22 12:50	06/04/22 09:15
500-217596-4	S-4	Solid	06/03/22 12:55	06/04/22 09:15
500-217596-5	S-5	Solid	06/03/22 13:00	06/04/22 09:15
500-217596-6	S-6	Solid	06/03/22 13:03	06/04/22 09:15
500-217596-7	S-7	Solid	06/03/22 13:06	06/04/22 09:15
500-217596-8	S-8	Solid	06/03/22 13:10	06/04/22 09:15
500-217596-9	S-9	Solid	06/03/22 13:15	06/04/22 09:15
500-217596-10	S-10	Solid	06/03/22 13:20	06/04/22 09:15
500-217596-11	S-11	Solid	06/03/22 13:25	06/04/22 09:15
500-217596-12	S-12	Solid	06/03/22 13:30	06/04/22 09:15
500-217596-13	Trip Blank	Solid	06/03/22 10:00	06/04/22 09:15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-1

Lab Sample ID: 500-217596-1

Date Collected: 06/03/22 12:40

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<17		29	17	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Ethylbenzene	670		29	21	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Methyl tert-butyl ether	<45		110	45	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Naphthalene	<38		110	38	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Toluene	<17		29	17	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
1,2,4-Trimethylbenzene	5700		110	41	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
1,3,5-Trimethylbenzene	2500		110	44	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Xylenes, Total	3300		57	25	ug/Kg	☼	06/03/22 12:40	06/16/22 12:08	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				06/03/22 12:40	06/16/22 12:08	100
Dibromofluoromethane (Surr)	89		75 - 120				06/03/22 12:40	06/16/22 12:08	100
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 12:40	06/16/22 12:08	100
Toluene-d8 (Surr)	96		75 - 120				06/03/22 12:40	06/16/22 12:08	100

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-2

Lab Sample ID: 500-217596-2

Date Collected: 06/03/22 12:45

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.5		15	8.5	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Naphthalene	<19		58	19	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Toluene	<8.5		15	8.5	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 12:45	06/16/22 12:33	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 12:45	06/16/22 12:33	50
Dibromofluoromethane (Surr)	89		75 - 120				06/03/22 12:45	06/16/22 12:33	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126				06/03/22 12:45	06/16/22 12:33	50
Toluene-d8 (Surr)	95		75 - 120				06/03/22 12:45	06/16/22 12:33	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-3

Lab Sample ID: 500-217596-3

Date Collected: 06/03/22 12:50

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Toluene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 12:50	06/16/22 12:59	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 12:50	06/16/22 12:59	50
Dibromofluoromethane (Surr)	87		75 - 120				06/03/22 12:50	06/16/22 12:59	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126				06/03/22 12:50	06/16/22 12:59	50
Toluene-d8 (Surr)	98		75 - 120				06/03/22 12:50	06/16/22 12:59	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-4

Lab Sample ID: 500-217596-4

Date Collected: 06/03/22 12:55

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Toluene	<8.6		15	8.6	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 12:55	06/16/22 13:25	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 12:55	06/16/22 13:25	50
Dibromofluoromethane (Surr)	86		75 - 120				06/03/22 12:55	06/16/22 13:25	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 12:55	06/16/22 13:25	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 12:55	06/16/22 13:25	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-5

Lab Sample ID: 500-217596-5

Date Collected: 06/03/22 13:00

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Toluene	<8.7		15	8.7	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:00	06/16/22 13:51	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124	06/03/22 13:00	06/16/22 13:51	50
Dibromofluoromethane (Surr)	87		75 - 120	06/03/22 13:00	06/16/22 13:51	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126	06/03/22 13:00	06/16/22 13:51	50
Toluene-d8 (Surr)	96		75 - 120	06/03/22 13:00	06/16/22 13:51	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-6

Lab Sample ID: 500-217596-6

Date Collected: 06/03/22 13:03

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.4		14	8.4	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Ethylbenzene	<11		14	11	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Naphthalene	<19		58	19	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Toluene	<8.5		14	8.5	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 13:03	06/16/22 14:17	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124				06/03/22 13:03	06/16/22 14:17	50
Dibromofluoromethane (Surr)	85		75 - 120				06/03/22 13:03	06/16/22 14:17	50
1,2-Dichloroethane-d4 (Surr)	83		75 - 126				06/03/22 13:03	06/16/22 14:17	50
Toluene-d8 (Surr)	97		75 - 120				06/03/22 13:03	06/16/22 14:17	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-7

Lab Sample ID: 500-217596-7

Date Collected: 06/03/22 13:06

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Toluene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 13:06	06/16/22 14:42	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				06/03/22 13:06	06/16/22 14:42	50
Dibromofluoromethane (Surr)	87		75 - 120				06/03/22 13:06	06/16/22 14:42	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126				06/03/22 13:06	06/16/22 14:42	50
Toluene-d8 (Surr)	97		75 - 120				06/03/22 13:06	06/16/22 14:42	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-8

Lab Sample ID: 500-217596-8

Date Collected: 06/03/22 13:10

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 92.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.5		14	8.5	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Ethylbenzene	<11		14	11	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Methyl tert-butyl ether	<23		58	23	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Naphthalene	<19		58	19	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Toluene	<8.5		14	8.5	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
1,2,4-Trimethylbenzene	<21		58	21	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
1,3,5-Trimethylbenzene	<22		58	22	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Xylenes, Total	<13		29	13	ug/Kg	☼	06/03/22 13:10	06/16/22 15:08	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				06/03/22 13:10	06/16/22 15:08	50
Dibromofluoromethane (Surr)	89		75 - 120				06/03/22 13:10	06/16/22 15:08	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126				06/03/22 13:10	06/16/22 15:08	50
Toluene-d8 (Surr)	98		75 - 120				06/03/22 13:10	06/16/22 15:08	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-9

Lab Sample ID: 500-217596-9

Date Collected: 06/03/22 13:15

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 90.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.9		15	8.9	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Naphthalene	<20		61	20	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Toluene	<8.9		15	8.9	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
1,2,4-Trimethylbenzene	<22		61	22	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
1,3,5-Trimethylbenzene	<23		61	23	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:15	06/16/22 15:33	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				06/03/22 13:15	06/16/22 15:33	50
Dibromofluoromethane (Surr)	86		75 - 120				06/03/22 13:15	06/16/22 15:33	50
1,2-Dichloroethane-d4 (Surr)	83		75 - 126				06/03/22 13:15	06/16/22 15:33	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 13:15	06/16/22 15:33	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-10

Lab Sample ID: 500-217596-10

Date Collected: 06/03/22 13:20

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.7		15	8.7	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Naphthalene	<20		60	20	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Toluene	<8.8		15	8.8	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
1,2,4-Trimethylbenzene	<21		60	21	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:20	06/16/22 15:58	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124	06/03/22 13:20	06/16/22 15:58	50
Dibromofluoromethane (Surr)	84		75 - 120	06/03/22 13:20	06/16/22 15:58	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126	06/03/22 13:20	06/16/22 15:58	50
Toluene-d8 (Surr)	99		75 - 120	06/03/22 13:20	06/16/22 15:58	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-11

Lab Sample ID: 500-217596-11

Date Collected: 06/03/22 13:25

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 90.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.8		15	8.8	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Ethylbenzene	<11		15	11	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Naphthalene	<20		60	20	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Toluene	<8.9		15	8.9	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
1,2,4-Trimethylbenzene	<22		60	22	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50
Xylenes, Total	<13		30	13	ug/Kg	☼	06/03/22 13:25	06/16/22 16:23	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124	06/03/22 13:25	06/16/22 16:23	50
Dibromofluoromethane (Surr)	89		75 - 120	06/03/22 13:25	06/16/22 16:23	50
1,2-Dichloroethane-d4 (Surr)	87		75 - 126	06/03/22 13:25	06/16/22 16:23	50
Toluene-d8 (Surr)	96		75 - 120	06/03/22 13:25	06/16/22 16:23	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-12

Lab Sample ID: 500-217596-12

Date Collected: 06/03/22 13:30

Matrix: Solid

Date Received: 06/04/22 09:15

Percent Solids: 91.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Ethylbenzene	1100		15	11	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Naphthalene	<20		59	20	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Toluene	12 J B		15	8.7	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
1,2,4-Trimethylbenzene	9400		59	21	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
1,3,5-Trimethylbenzene	3100		59	23	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Xylenes, Total	3100		30	13	ug/Kg	☼	06/03/22 13:30	06/16/22 16:50	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124				06/03/22 13:30	06/16/22 16:50	50
Dibromofluoromethane (Surr)	88		75 - 120				06/03/22 13:30	06/16/22 16:50	50
1,2-Dichloroethane-d4 (Surr)	86		75 - 126				06/03/22 13:30	06/16/22 16:50	50
Toluene-d8 (Surr)	99		75 - 120				06/03/22 13:30	06/16/22 16:50	50

Client Sample Results

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-217596-13

Date Collected: 06/03/22 10:00

Matrix: Solid

Date Received: 06/04/22 09:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Naphthalene	<17		50	17	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Toluene	<7.4		13	7.4	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
1,2,4-Trimethylbenzene	32	J	50	18	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Xylenes, Total	<11		25	11	ug/Kg		06/03/22 10:00	06/16/22 17:17	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124				06/03/22 10:00	06/16/22 17:17	50
Dibromofluoromethane (Surr)	86		75 - 120				06/03/22 10:00	06/16/22 17:17	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126				06/03/22 10:00	06/16/22 17:17	50
Toluene-d8 (Surr)	96		75 - 120				06/03/22 10:00	06/16/22 17:17	50

Definitions/Glossary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

GC/MS VOA

Prep Batch: 661137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-1	S-1	Total/NA	Solid	5035	
500-217596-2	S-2	Total/NA	Solid	5035	
500-217596-3	S-3	Total/NA	Solid	5035	
500-217596-4	S-4	Total/NA	Solid	5035	
500-217596-5	S-5	Total/NA	Solid	5035	
500-217596-6	S-6	Total/NA	Solid	5035	
500-217596-7	S-7	Total/NA	Solid	5035	
500-217596-8	S-8	Total/NA	Solid	5035	
500-217596-9	S-9	Total/NA	Solid	5035	
500-217596-10	S-10	Total/NA	Solid	5035	
500-217596-11	S-11	Total/NA	Solid	5035	
500-217596-12	S-12	Total/NA	Solid	5035	
500-217596-13	Trip Blank	Total/NA	Solid	5035	
LB3 500-661137/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-661137/22-A	Lab Control Sample	Total/NA	Solid	5035	
500-217596-2 MS	S-2	Total/NA	Solid	5035	
500-217596-2 MSD	S-2	Total/NA	Solid	5035	

Analysis Batch: 661273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-661137/21-A	Method Blank	Total/NA	Solid	8260B	661137
MB 500-661273/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-661137/22-A	Lab Control Sample	Total/NA	Solid	8260B	661137
LCS 500-661273/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 661438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-1	S-1	Total/NA	Solid	8260B	661137
500-217596-2	S-2	Total/NA	Solid	8260B	661137
500-217596-3	S-3	Total/NA	Solid	8260B	661137
500-217596-4	S-4	Total/NA	Solid	8260B	661137
500-217596-5	S-5	Total/NA	Solid	8260B	661137
500-217596-6	S-6	Total/NA	Solid	8260B	661137
500-217596-7	S-7	Total/NA	Solid	8260B	661137
500-217596-8	S-8	Total/NA	Solid	8260B	661137
500-217596-9	S-9	Total/NA	Solid	8260B	661137
500-217596-10	S-10	Total/NA	Solid	8260B	661137
500-217596-11	S-11	Total/NA	Solid	8260B	661137
500-217596-12	S-12	Total/NA	Solid	8260B	661137
500-217596-13	Trip Blank	Total/NA	Solid	8260B	661137
MB 500-661438/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-661438/4	Lab Control Sample	Total/NA	Solid	8260B	
500-217596-2 MS	S-2	Total/NA	Solid	8260B	661137
500-217596-2 MSD	S-2	Total/NA	Solid	8260B	661137

General Chemistry

Analysis Batch: 659958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-1	S-1	Total/NA	Solid	Moisture	
500-217596-2	S-2	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

General Chemistry (Continued)

Analysis Batch: 659958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217596-3	S-3	Total/NA	Solid	Moisture	
500-217596-4	S-4	Total/NA	Solid	Moisture	
500-217596-5	S-5	Total/NA	Solid	Moisture	
500-217596-6	S-6	Total/NA	Solid	Moisture	
500-217596-7	S-7	Total/NA	Solid	Moisture	
500-217596-8	S-8	Total/NA	Solid	Moisture	
500-217596-9	S-9	Total/NA	Solid	Moisture	
500-217596-10	S-10	Total/NA	Solid	Moisture	
500-217596-11	S-11	Total/NA	Solid	Moisture	
500-217596-12	S-12	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Cedar Corporation
 Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-217596-1	S-1	95	89	85	96
500-217596-2	S-2	96	89	84	95
500-217596-2 MS	S-2	96	90	83	99
500-217596-2 MSD	S-2	96	88	82	99
500-217596-3	S-3	96	87	84	98
500-217596-4	S-4	96	86	85	96
500-217596-5	S-5	98	87	85	96
500-217596-6	S-6	97	85	83	97
500-217596-7	S-7	98	87	84	97
500-217596-8	S-8	96	89	86	98
500-217596-9	S-9	98	86	83	96
500-217596-10	S-10	97	84	84	99
500-217596-11	S-11	100	89	87	96
500-217596-12	S-12	101	88	86	99
500-217596-13	Trip Blank	97	86	85	96
LB3 500-661137/21-A	Method Blank	108	102	107	97
LCS 500-661137/22-A	Lab Control Sample	103	108	110	98
LCS 500-661273/4	Lab Control Sample	109	105	110	111
LCS 500-661438/4	Lab Control Sample	90	91	81	98
MB 500-661273/6	Method Blank	112	106	107	98
MB 500-661438/6	Method Blank	97	86	84	98

Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- DCA = 1,2-Dichloroethane-d4 (Surr)
- TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-661137/21-A
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661137

Analyte	LB3	LB3	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<7.3		13	7.3	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Naphthalene	<17		50	17	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Toluene	9.92	J	13	7.4	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/14/22 11:30	06/15/22 15:59	50
Xylenes, Total	<11		25	11	ug/Kg		06/14/22 11:30	06/15/22 15:59	50

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	108		72 - 124	06/14/22 11:30	06/15/22 15:59	50
Dibromofluoromethane (Surr)	102		75 - 120	06/14/22 11:30	06/15/22 15:59	50
1,2-Dichloroethane-d4 (Surr)	107		75 - 126	06/14/22 11:30	06/15/22 15:59	50
Toluene-d8 (Surr)	97		75 - 120	06/14/22 11:30	06/15/22 15:59	50

Lab Sample ID: LCS 500-661137/22-A
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661137

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	2500	2570		ug/Kg		103	70 - 120
Ethylbenzene	2500	2540		ug/Kg		101	70 - 123
Methyl tert-butyl ether	2500	2870		ug/Kg		115	55 - 123
Naphthalene	2500	3400		ug/Kg		136	53 - 144
Toluene	2500	2440		ug/Kg		98	70 - 125
1,2,4-Trimethylbenzene	2500	2590		ug/Kg		103	70 - 123
1,3,5-Trimethylbenzene	2500	2650		ug/Kg		106	70 - 123
Xylenes, Total	5000	5000		ug/Kg		100	70 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		72 - 124
Dibromofluoromethane (Surr)	108		75 - 120
1,2-Dichloroethane-d4 (Surr)	110		75 - 126
Toluene-d8 (Surr)	98		75 - 120

Lab Sample ID: 500-217596-2 MS
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 661137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Benzene	<8.5		2900	2680		ug/Kg	⊛	92	70 - 120
Ethylbenzene	<11		2900	2940		ug/Kg	⊛	101	70 - 123
Methyl tert-butyl ether	<23		2900	2310		ug/Kg	⊛	80	55 - 123
Naphthalene	<19		2900	2370		ug/Kg	⊛	82	53 - 144
Toluene	<8.5		2900	2790		ug/Kg	⊛	96	70 - 125
1,2,4-Trimethylbenzene	<21		2900	2930		ug/Kg	⊛	101	70 - 123
1,3,5-Trimethylbenzene	<22		2900	3060		ug/Kg	⊛	105	70 - 123
Xylenes, Total	<13		5800	5690		ug/Kg	⊛	98	70 - 125

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QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane (Surr)	90		75 - 120
1,2-Dichloroethane-d4 (Surr)	83		75 - 126
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: 500-217596-2 MSD

Matrix: Solid

Analysis Batch: 661438

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 661137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec Limits	RPD	Limit
				Result	Qualifier						
Benzene	<8.5		2900	2450		ug/Kg	⊛	85	70 - 120	9	30
Ethylbenzene	<11		2900	2720		ug/Kg	⊛	94	70 - 123	8	30
Methyl tert-butyl ether	<23		2900	2120		ug/Kg	⊛	73	55 - 123	9	30
Naphthalene	<19		2900	2630		ug/Kg	⊛	91	53 - 144	10	30
Toluene	<8.5		2900	2640		ug/Kg	⊛	91	70 - 125	6	30
1,2,4-Trimethylbenzene	<21		2900	2720		ug/Kg	⊛	94	70 - 123	7	30
1,3,5-Trimethylbenzene	<22		2900	2830		ug/Kg	⊛	98	70 - 123	8	30
Xylenes, Total	<13		5800	5250		ug/Kg	⊛	90	70 - 125	8	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane (Surr)	88		75 - 120
1,2-Dichloroethane-d4 (Surr)	82		75 - 126
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: MB 500-661273/6

Matrix: Solid

Analysis Batch: 661273

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.25	0.15	ug/Kg		06/15/22 12:46	1	
Ethylbenzene	<0.18		0.25	0.18	ug/Kg		06/15/22 12:46	1	
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg		06/15/22 12:46	1	
Naphthalene	<0.33		1.0	0.33	ug/Kg		06/15/22 12:46	1	
Toluene	<0.15		0.25	0.15	ug/Kg		06/15/22 12:46	1	
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg		06/15/22 12:46	1	
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg		06/15/22 12:46	1	
Xylenes, Total	<0.22		0.50	0.22	ug/Kg		06/15/22 12:46	1	

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	112		72 - 124		06/15/22 12:46	1
Dibromofluoromethane (Surr)	106		75 - 120		06/15/22 12:46	1
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		06/15/22 12:46	1
Toluene-d8 (Surr)	98		75 - 120		06/15/22 12:46	1

Lab Sample ID: LCS 500-661273/4

Matrix: Solid

Analysis Batch: 661273

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	50.0	46.9		ug/Kg		94	70 - 120

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QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-661273/4
Matrix: Solid
Analysis Batch: 661273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	49.6		ug/Kg		99	70 - 123
Methyl tert-butyl ether	50.0	45.4		ug/Kg		91	55 - 123
Naphthalene	50.0	61.1		ug/Kg		122	53 - 144
Toluene	50.0	49.4		ug/Kg		99	70 - 125
1,2,4-Trimethylbenzene	50.0	52.0		ug/Kg		104	70 - 123
1,3,5-Trimethylbenzene	50.0	54.1		ug/Kg		108	70 - 123
Xylenes, Total	100	97.3		ug/Kg		97	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		72 - 124
Dibromofluoromethane (Surr)	105		75 - 120
1,2-Dichloroethane-d4 (Surr)	110		75 - 126
Toluene-d8 (Surr)	111		75 - 120

Lab Sample ID: MB 500-661438/6
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			06/16/22 11:41	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			06/16/22 11:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			06/16/22 11:41	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			06/16/22 11:41	1
Toluene	<0.15		0.25	0.15	ug/Kg			06/16/22 11:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			06/16/22 11:41	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			06/16/22 11:41	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			06/16/22 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124		06/16/22 11:41	1
Dibromofluoromethane (Surr)	86		75 - 120		06/16/22 11:41	1
1,2-Dichloroethane-d4 (Surr)	84		75 - 126		06/16/22 11:41	1
Toluene-d8 (Surr)	98		75 - 120		06/16/22 11:41	1

Lab Sample ID: LCS 500-661438/4
Matrix: Solid
Analysis Batch: 661438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	54.3		ug/Kg		109	70 - 120
Ethylbenzene	50.0	60.0		ug/Kg		120	70 - 123
Methyl tert-butyl ether	50.0	46.0		ug/Kg		92	55 - 123
Naphthalene	50.0	48.3		ug/Kg		97	53 - 144
Toluene	50.0	56.1		ug/Kg		112	70 - 125
1,2,4-Trimethylbenzene	50.0	59.1		ug/Kg		118	70 - 123
1,3,5-Trimethylbenzene	50.0	61.4		ug/Kg		123	70 - 123
Xylenes, Total	100	117		ug/Kg		117	70 - 125

QC Sample Results

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-661438/4

Matrix: Solid

Analysis Batch: 661438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

<u>Surrogate</u>	<u>LCS LCS</u>		<u>Limits</u>
	<u>%Recovery</u>	<u>Qualifier</u>	
4-Bromofluorobenzene (Surr)	90		72 - 124
Dibromofluoromethane (Surr)	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	81		75 - 126
Toluene-d8 (Surr)	98		75 - 120

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Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-1

Date Collected: 06/03/22 12:40

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-1

Date Collected: 06/03/22 12:40

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-1

Matrix: Solid

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:40	WRE	TAL CHI
Total/NA	Analysis	8260B		100	661438	06/16/22 12:08	W1T	TAL CHI

Client Sample ID: S-2

Date Collected: 06/03/22 12:45

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-2

Date Collected: 06/03/22 12:45

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-2

Matrix: Solid

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 12:33	W1T	TAL CHI

Client Sample ID: S-3

Date Collected: 06/03/22 12:50

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-3

Date Collected: 06/03/22 12:50

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-3

Matrix: Solid

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 12:59	W1T	TAL CHI

Client Sample ID: S-4

Date Collected: 06/03/22 12:55

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Eurofins Chicago

Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-4

Date Collected: 06/03/22 12:55

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-4

Matrix: Solid

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 12:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 13:25	W1T	TAL CHI

Client Sample ID: S-5

Date Collected: 06/03/22 13:00

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-5

Date Collected: 06/03/22 13:00

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-5

Matrix: Solid

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 13:51	W1T	TAL CHI

Client Sample ID: S-6

Date Collected: 06/03/22 13:03

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-6

Date Collected: 06/03/22 13:03

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-6

Matrix: Solid

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:03	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 14:17	W1T	TAL CHI

Client Sample ID: S-7

Date Collected: 06/03/22 13:06

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-7

Date Collected: 06/03/22 13:06

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-7

Matrix: Solid

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:06	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 14:42	W1T	TAL CHI

Client Sample ID: S-8

Date Collected: 06/03/22 13:10

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-8

Date Collected: 06/03/22 13:10

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-8

Matrix: Solid

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 15:08	W1T	TAL CHI

Client Sample ID: S-9

Date Collected: 06/03/22 13:15

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-9

Date Collected: 06/03/22 13:15

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-9

Matrix: Solid

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 15:33	W1T	TAL CHI

Client Sample ID: S-10

Date Collected: 06/03/22 13:20

Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Lab Chronicle

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Client Sample ID: S-10
Date Collected: 06/03/22 13:20
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-10
Matrix: Solid
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 15:58	W1T	TAL CHI

Client Sample ID: S-11
Date Collected: 06/03/22 13:25
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-11
Date Collected: 06/03/22 13:25
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-11
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 16:23	W1T	TAL CHI

Client Sample ID: S-12
Date Collected: 06/03/22 13:30
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	659958	06/06/22 12:08	LWN	TAL CHI

Client Sample ID: S-12
Date Collected: 06/03/22 13:30
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-12
Matrix: Solid
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 13:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 16:50	W1T	TAL CHI

Client Sample ID: Trip Blank
Date Collected: 06/03/22 10:00
Date Received: 06/04/22 09:15

Lab Sample ID: 500-217596-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			661137	06/03/22 10:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	661438	06/16/22 17:17	W1T	TAL CHI

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Cedar Corporation
Project/Site: Richfield Tank Pull

Job ID: 500-217596-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22


- 1
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Eurofins Chicago

2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins E v i r o m o n i t o r i n g
Amer

Client Information		Sampler <u>Quin Lenz</u>		Lab PM Fredrick Sandie		Carrier Tracking No(s) <u>5776 05978336</u>		COC No 500-101813-44117 2	
Client Contact: Quin Lenz		Phone <u>(920) 309-4197</u>		E-Mail Sandra.Fredrick@et.eurofinsus.com		State of Origin <u>WI</u>		Page Page 1 <u>1 of 2</u>	
Company Cedar Corporation		PWS D		Analysis Requested				Job # <u>500-217596</u>	
Address 1695 Bellevue Street		Due Date Requested <u>Standard</u>		 500-217596 COC				Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaI-SO4 Q Na2S2O3 F MeOH S H2SO4 G Amchlor T TSP Dodeca hydrate H Ascorbic Acid U Acetone I Ice V MCAA J DI Water W pH 4-5 K EDTA Y Tizma L EDA Z other (specify) Other:	
City Green Bay		TAT Requested (days) <u>Standard</u>							
State Zip WI 54311		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone 715-235-9081(Tel)		PC #: Purchase Order not required							
Email quin.lenz@cedarcorp.com		VO #:							
Project Name RICHFIELD TANK PULL		Project # 50006556		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Total Number of Containers	
Site		SSOW#		8260B - PYCOC-NAP					
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, D=wastefoil, BT=Tissue, A=Air)	Preservation Code		Special Instructions/Note	
1	S-1	6/3/22	1240	G	Solid	X			
2	S-2		1245		Solid	X			
3	S-3		1250		Solid	X			
4	S-4		1255		Solid	X			
5	S-5		1300		Solid	X			
6	S-6		1303		Solid	X			
7	S-7		1306		Solid	X			
8	S-8		1310			X			
9	S-9		1315			X			
10	S-10		1320			X			
11	S-11		1325			X			
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date		Time		Method of Shipment			
Relinquished by <u>[Signature]</u>		Date/Time 6/3/22 1535		Company Cedar		Received by Stephanie Hernandez		Date/Time 6/14/22 0915	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <u>43-5H 4.0 + 3 b</u>					

Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-217596-1

Login Number: 217596

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



