

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: South Shore C-Store

Address: 14770 State Highway 13, Herbster, WI 54844

Note: Site name and address must match with Part A Section 1.

To determine if a TSSA is required, see SPS 310 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 PECFA # _____, or DNR BRRT's # 03-04-00353
02-04-562936

b. Number of active tanks¹ at facility prior to completion of current services USTs 2 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 BASIN	27' 27'	18'	8'
Pipe Trench	18'	5'	4'

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: Y N b. Petroleum odor: Y N c. Water in excavation/trench: Y N

d. Free product in the excavation/trench: Y N e. Sheen or free product on water: Y N

3. Geology/Hydrogeology

a. Depth to groundwater ~7' feet b. Indicate type of geology² Native clay, fill (widespread) sand
(Note 2: Use these symbols individually or in combination as appropriate: C = Clay, SLT = Silt, S = Sand, Gr = Gravel)

4. Receptors

a. Water supply well(s) within 250 feet of the facility? Y N If yes, specify Nearby properties serviced by private
b. Surface water(s) within 1000 feet of the facility? Y N If yes, specify Lake Superior 1/4 mi NW wells

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

Tanks, sumps, & spill buckets appeared to be in good condition upon removal. 1 double compartment tank held gasoline/diesel, 1 single compartment tank held gasoline. Unable to dig to native clay on all sidewalls due to sandy road base/fill (would have caused slough/collapse w/ add'l digging).

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)
		Grab	Shelby Tube	Direct Push	Split Spoon		
S-1	S-N side w sidewalk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	sidewalk, ~4'	4.0
S-2	C S side w sidewalk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	29.3
S-3	S W side S sidewalk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	1406
S-4	S Middle S sidewalk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	10.9
S-5	S E side S sidewalk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	58.4
S-6	C S side E sidewalk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	0.2
S-7	S N side E sidewalk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	0.3
S-8	S E side N sidewalk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	0.4
S-9	S Middle N sidewalk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	3.1
S-10	S W side N sidewalk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	1.8
B-1	S W side above WT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1' above WT (6')	1727
B-2	S SW side above WT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	1059
B-3	S SE side above WT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	208.4
B-4	S E side above WT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	0.3

TABLE 2 SOIL LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

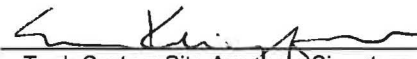
Sample ID #	BENZENE	TOLUENE	ETHYLBENZENE	MTBE	TRIMETHYL - BENZENES (TOTAL)	XYLENES (TOTAL)	NAPHTHALENE	CHLORINATED SOLVENTS
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
S-1	<29.4	<294	<29.4	<58.8	<117.6	<98.2	<294	NA
S-2	<34.3	<343	<34.3	71.6	116	91.0	<343	NA
S-3	28.7	594	425	101	7,730	5,710	304	NA
S-4	<29.1	<291	<29.1	<58.1	67.6	<87.2	<291	NA
S-5	<30	<300	<30	60.3	<120.2	<90.1	<300	NA
S-6	<33.5	<335	<33.5	<67.1	<134.2	<100.6	<335	NA
S-7	<30.7	<307	<30.7	65.4	<122.8	92.1	<307	NA
S-8	<30.2	<302	<30.2	<60.3	<120.6	<90.5	<302	NA
S-9	<26.3	<263	<26.3	<52.5	<105.0	<78.8	<263	NA
S-10	<26.1	<261	<26.1	<52.3	<104.6	<78.4	<261	NA
B-1	157	800	1850	<124	96,800	61,700	3,910	NA
B-2	<62.8	<628	<62.8	<126	2,164	872	<628	NA
B-3	<38.3	<383	402	106	10,446	1,515	<383	NA
B-4	<28.8	<288	<28.8	63.4	<115.4	<86.5	<288	NA

K. TANK-SYSTEM SITE ASSESSMENT INFORMATION

As a tank-system site assessor certified under Wis. Admin. Code section SPS 305.83, 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 SPS 310.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter SPS 310 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 101.09 (5). Each day of continued violation and each tank are treated as separate offenses.

Erica Klingfus
Tank-System Site Assessor Name (print)


Tank-System Site Assessor Signature

467913
Certification Number #

(218) 499-3171
Tank-System Site Assessor Telephone Number

9/18/2017
Date Signed

MSA Professional Services, Inc.
Company Name

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)
		Grab	Shelby Tube	Direct Push	Split Spoon		
B-5	S NW side above WT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1' above WT (1.1')	1.4
B-6	S NE side above WT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	0.6
P-1	S Pipe trench near tanks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1' below pipe	0.4
D-1	S W dispenser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1' below sump	0.4 1.1
D-2	S Middle dispenser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	0.4 24.4
D-3	S E dispenser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	" "	0.4
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<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	CHLORINATED SOLVENTS
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
B-5	<26.2	<26.2	<26.2	66	<105.0	<78.7	<26.2	NA
B-6	<26.1	<26.1	<26.1	52.6	<104.2	<78.2	<26.1	NA
P-1	<26.3	<26.3	<26.3	60.5	<105.4	<79.0	<26.3	NA
D-1	<30.2	<30.2	<30.2	67.8	<121.0	<90.7	<30.2	NA
D-2	<30.8	<30.8	<30.8	41.7	<122.4	<92.5	695	NA
D-3	<30.7	<30.7	<30.7	76	<122.0	<92.2	<30.7	NA

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Sampling at the site indicates there has been a release to the environment. Pursuant to Wis. Admin. Code section SPS 310.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter SPS 310 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 101.09 (5). Each day of continued violation and each tank are treated as separate offenses.

Erica Klingfus
Tank-System Site Assessor Name (print)

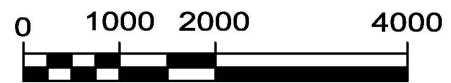
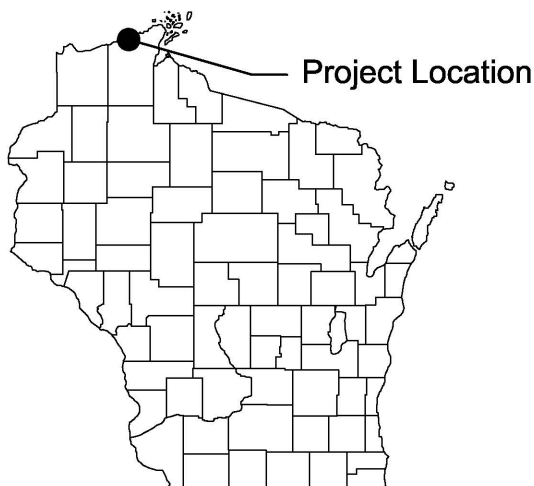
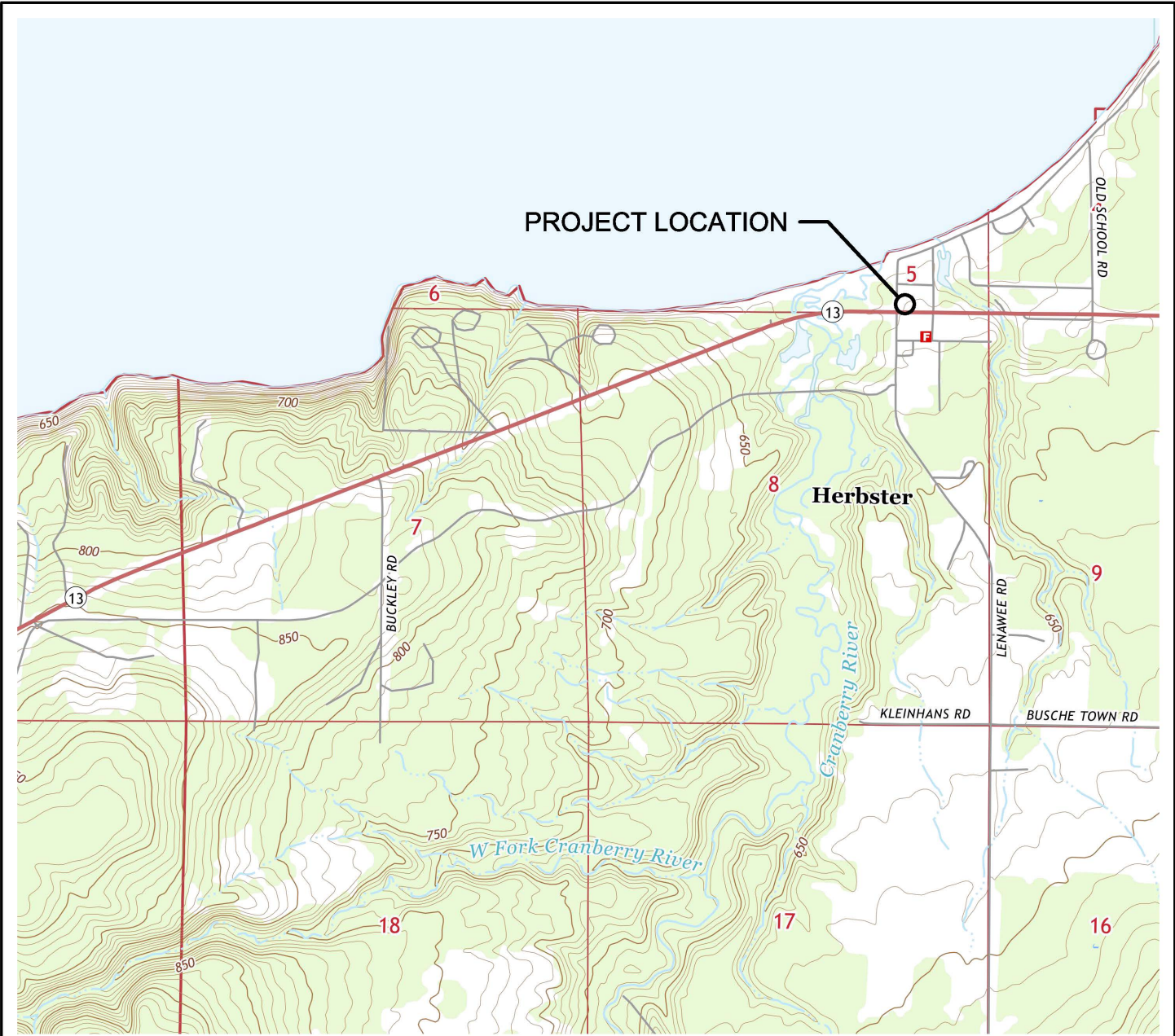
[Signature]
Tank-System Site Assessor Signature

467913
Certification Number #

(218) 499-3171
Tank-System Site Assessor Telephone Number

9/18/2017
Date Signed

MSA Professional Services, Inc.
Company Name



Scale (Feet)

Herbster, WI Quadrangle
 Wisconsin - Bayfield County
 7.5 Minute Series (Topographic)

Contour Interval 10 Feet
 2015

File Name: F:\18764001\18764001\18764001\18764001\18764001.dwg

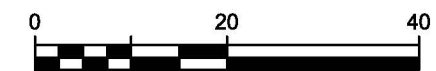


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 332 W Superior Street #600 Duluth, MN 55802
 (218) 722-3915 (800) 777-7380
 www.msa-ps.com
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Figure 1
Site Location Map

SOUTH SHORE C-STORE
 14770 STATE HIGHWAY 13
 HERBSTER, WISCONSIN

FILE NO.
18764001
 SHEET
F1



LEGEND

- B-1 ● TANK SAMPLE LOCATION
- D-1 □ DISPENSER LOCATION
- S-1 ● SIDEWALL SAMPLE LOCATION

Figure 2
Site Plan View

SOUTH SHORE C-STORE
14770 STATE HIGHWAY 13
HERBSTER, WISCONSIN

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www.msa-ps.com
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DRAWN BY	JAS	DATE	9/7/2017	SHEET NO.	F2
CHECKED BY	EAK	SCALE	1" = 20'	FILE NO.	18764001

September 14, 2017

MSA Professional Services

Sample Delivery Group: L933217
Samples Received: 08/31/2017
Project Number: 18764001
Description: South Shore C-Store

Report To: Erica Klingfus
332 W. Superior Street, Suite 600
Duluth, MN 55802

Entire Report Reviewed By:



John Hawkins
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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SAMPLE SUMMARY

S-1 L933217-01 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:00
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017279	1	09/06/17 16:01	09/06/17 16:20	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 09:00	09/03/17 16:10	ACG

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

S-2 L933217-02 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:04
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017279	1	09/06/17 16:01	09/06/17 16:20	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 09:04	09/03/17 16:34	ACG

S-3 L933217-03 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:06
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017279	1	09/06/17 16:01	09/06/17 16:20	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 09:06	09/03/17 16:57	ACG

S-4 L933217-04 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:10
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017279	1	09/06/17 16:01	09/06/17 16:20	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 09:10	09/03/17 17:21	ACG

S-5 L933217-05 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:14
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017279	1	09/06/17 16:01	09/06/17 16:20	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 09:14	09/03/17 17:44	ACG

S-6 L933217-06 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:16
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017279	1	09/06/17 16:01	09/06/17 16:20	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 09:16	09/03/17 18:08	ACG

S-7 L933217-07 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:20
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017279	1	09/06/17 16:01	09/06/17 16:20	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50.5	08/30/17 09:20	09/03/17 18:32	ACG

SAMPLE SUMMARY



S-8 L933217-08 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:22
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017279	1	09/06/17 16:01	09/06/17 16:20	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 09:22	09/03/17 18:55	ACG

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

S-9 L933217-09 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:24
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017279	1	09/06/17 16:01	09/06/17 16:20	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 09:24	09/03/17 19:19	ACG

S-10 L933217-10 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:26
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017279	1	09/06/17 16:01	09/06/17 16:20	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 09:26	09/03/17 19:42	ACG

B-1 L933217-11 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:02
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017280	1	09/07/17 09:31	09/07/17 09:45	MLW
Volatile Organic Compounds (GC) by Method 8021B	WG1015989	100	08/30/17 09:02	09/03/17 20:06	ACG
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	1000	08/30/17 09:02	09/07/17 14:55	LRL

B-2 L933217-12 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:08
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017280	1	09/07/17 09:31	09/07/17 09:45	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	100	08/30/17 09:08	09/07/17 15:18	LRL

B-3 L933217-13 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:12
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017280	1	09/07/17 09:31	09/07/17 09:45	MLW
Volatile Organic Compounds (GC) by Method 8021B	WG1015989	62	08/30/17 09:12	09/03/17 20:53	ACG
Volatile Organic Compounds (GC) by Method WI(95) GRO	WG1015989	310	08/30/17 09:12	09/07/17 15:42	LRL

B-4 L933217-14 Solid

Collected by
Erica Klingfus
Collected date/time
08/30/17 09:18
Received date/time
08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017280	1	09/07/17 09:31	09/07/17 09:45	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 09:18	09/03/17 21:16	ACG

SAMPLE SUMMARY



B-5 L933217-15 Solid

Collected by Erica Klingfus
 Collected date/time 08/30/17 09:28
 Received date/time 08/31/17 08:45

1 Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017280	1	09/07/17 09:31	09/07/17 09:45	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 09:28	09/03/17 21:40	ACG

2 Tc

3 Ss

B-6 L933217-16 Solid

Collected by Erica Klingfus
 Collected date/time 08/30/17 09:30
 Received date/time 08/31/17 08:45

4 Cn

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017280	1	09/07/17 09:31	09/07/17 09:45	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 09:30	09/03/17 22:04	ACG

5 Sr

6 Qc

P-1 L933217-17 Solid

Collected by Erica Klingfus
 Collected date/time 08/30/17 10:00
 Received date/time 08/31/17 08:45

7 Gl

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017280	1	09/07/17 09:31	09/07/17 09:45	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 10:00	09/03/17 22:27	ACG

8 Al

9 Sc

D-1 L933217-18 Solid

Collected by Erica Klingfus
 Collected date/time 08/30/17 10:36
 Received date/time 08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017280	1	09/07/17 09:31	09/07/17 09:45	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 10:36	09/03/17 22:51	ACG

D-2 L933217-19 Solid

Collected by Erica Klingfus
 Collected date/time 08/30/17 10:38
 Received date/time 08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017280	1	09/07/17 09:31	09/07/17 09:45	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 10:38	09/03/17 23:14	ACG

D-3 L933217-20 Solid

Collected by Erica Klingfus
 Collected date/time 08/30/17 10:40
 Received date/time 08/31/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1017280	1	09/07/17 09:31	09/07/17 09:45	MLW
Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO	WG1015989	50	08/30/17 10:40	09/03/17 23:38	ACG



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

John Hawkins
Technical Service Representative

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.1		1	09/06/2017 16:20	WG1017279

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0294	50	09/03/2017 16:10	WG1015989
Toluene	ND		0.294	50	09/03/2017 16:10	WG1015989
Ethylbenzene	ND		0.0294	50	09/03/2017 16:10	WG1015989
m&p-Xylene	ND		0.0588	50	09/03/2017 16:10	WG1015989
o-Xylene	ND		0.0294	50	09/03/2017 16:10	WG1015989
Methyl tert-butyl ether	ND		0.0588	50	09/03/2017 16:10	WG1015989
Naphthalene	ND		0.294	50	09/03/2017 16:10	WG1015989
1,3,5-Trimethylbenzene	ND		0.0588	50	09/03/2017 16:10	WG1015989
1,2,4-Trimethylbenzene	ND		0.0588	50	09/03/2017 16:10	WG1015989
TPH (GC/FID) Low Fraction	ND		5.88	50	09/03/2017 16:10	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 16:10	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	72.8		1	09/06/2017 16:20	WG1017279

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0343	50	09/03/2017 16:34	WG1015989
Toluene	ND		0.343	50	09/03/2017 16:34	WG1015989
Ethylbenzene	ND		0.0343	50	09/03/2017 16:34	WG1015989
m&p-Xylene	0.0910	<u>B</u>	0.0687	50	09/03/2017 16:34	WG1015989
o-Xylene	ND		0.0343	50	09/03/2017 16:34	WG1015989
Methyl tert-butyl ether	0.0716		0.0687	50	09/03/2017 16:34	WG1015989
Naphthalene	ND		0.343	50	09/03/2017 16:34	WG1015989
1,3,5-Trimethylbenzene	ND		0.0687	50	09/03/2017 16:34	WG1015989
1,2,4-Trimethylbenzene	0.116		0.0687	50	09/03/2017 16:34	WG1015989
TPH (GC/FID) Low Fraction	ND		6.87	50	09/03/2017 16:34	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 16:34	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.1		1	09/06/2017 16:20	WG1017279

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.0287	<u>B</u>	0.0268	50	09/03/2017 16:57	WG1015989
Toluene	0.594		0.268	50	09/03/2017 16:57	WG1015989
Ethylbenzene	0.425		0.0268	50	09/03/2017 16:57	WG1015989
m&p-Xylene	3.77		0.0537	50	09/03/2017 16:57	WG1015989
o-Xylene	1.94		0.0268	50	09/03/2017 16:57	WG1015989
Methyl tert-butyl ether	0.101		0.0537	50	09/03/2017 16:57	WG1015989
Naphthalene	0.304		0.268	50	09/03/2017 16:57	WG1015989
1,3,5-Trimethylbenzene	1.87		0.0537	50	09/03/2017 16:57	WG1015989
1,2,4-Trimethylbenzene	5.86		0.0537	50	09/03/2017 16:57	WG1015989
TPH (GC/FID) Low Fraction	90.2		5.37	50	09/03/2017 16:57	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	106		80.0-200		09/03/2017 16:57	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.0		1	09/06/2017 16:20	WG1017279

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0291	50	09/03/2017 17:21	WG1015989
Toluene	ND		0.291	50	09/03/2017 17:21	WG1015989
Ethylbenzene	ND		0.0291	50	09/03/2017 17:21	WG1015989
m&p-Xylene	ND		0.0581	50	09/03/2017 17:21	WG1015989
o-Xylene	ND		0.0291	50	09/03/2017 17:21	WG1015989
Methyl tert-butyl ether	ND		0.0581	50	09/03/2017 17:21	WG1015989
Naphthalene	ND		0.291	50	09/03/2017 17:21	WG1015989
1,3,5-Trimethylbenzene	ND		0.0581	50	09/03/2017 17:21	WG1015989
1,2,4-Trimethylbenzene	0.0676		0.0581	50	09/03/2017 17:21	WG1015989
TPH (GC/FID) Low Fraction	ND		5.81	50	09/03/2017 17:21	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 17:21	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.3		1	09/06/2017 16:20	WG1017279

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0300	50	09/03/2017 17:44	WG1015989
Toluene	ND		0.300	50	09/03/2017 17:44	WG1015989
Ethylbenzene	ND		0.0300	50	09/03/2017 17:44	WG1015989
m&p-Xylene	ND		0.0601	50	09/03/2017 17:44	WG1015989
o-Xylene	ND		0.0300	50	09/03/2017 17:44	WG1015989
Methyl tert-butyl ether	0.0603		0.0601	50	09/03/2017 17:44	WG1015989
Naphthalene	ND		0.300	50	09/03/2017 17:44	WG1015989
1,3,5-Trimethylbenzene	ND		0.0601	50	09/03/2017 17:44	WG1015989
1,2,4-Trimethylbenzene	ND		0.0601	50	09/03/2017 17:44	WG1015989
TPH (GC/FID) Low Fraction	ND		6.01	50	09/03/2017 17:44	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 17:44	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	74.6		1	09/06/2017 16:20	WG1017279

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0335	50	09/03/2017 18:08	WG1015989
Toluene	ND		0.335	50	09/03/2017 18:08	WG1015989
Ethylbenzene	ND		0.0335	50	09/03/2017 18:08	WG1015989
m&p-Xylene	ND		0.0671	50	09/03/2017 18:08	WG1015989
o-Xylene	ND		0.0335	50	09/03/2017 18:08	WG1015989
Methyl tert-butyl ether	ND		0.0671	50	09/03/2017 18:08	WG1015989
Naphthalene	ND		0.335	50	09/03/2017 18:08	WG1015989
1,3,5-Trimethylbenzene	ND		0.0671	50	09/03/2017 18:08	WG1015989
1,2,4-Trimethylbenzene	ND		0.0671	50	09/03/2017 18:08	WG1015989
TPH (GC/FID) Low Fraction	ND		6.71	50	09/03/2017 18:08	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 18:08	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.2		1	09/06/2017 16:20	WG1017279

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0307	50.5	09/03/2017 18:32	WG1015989
Toluene	ND		0.307	50.5	09/03/2017 18:32	WG1015989
Ethylbenzene	ND		0.0307	50.5	09/03/2017 18:32	WG1015989
m&p-Xylene	ND		0.0614	50.5	09/03/2017 18:32	WG1015989
o-Xylene	ND		0.0307	50.5	09/03/2017 18:32	WG1015989
Methyl tert-butyl ether	ND		0.0614	50.5	09/03/2017 18:32	WG1015989
Naphthalene	ND		0.307	50.5	09/03/2017 18:32	WG1015989
1,3,5-Trimethylbenzene	ND		0.0614	50.5	09/03/2017 18:32	WG1015989
1,2,4-Trimethylbenzene	ND		0.0614	50.5	09/03/2017 18:32	WG1015989
TPH (GC/FID) Low Fraction	ND		6.14	50.5	09/03/2017 18:32	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 18:32	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.9		1	09/06/2017 16:20	WG1017279

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0302	50	09/03/2017 18:55	WG1015989
Toluene	ND		0.302	50	09/03/2017 18:55	WG1015989
Ethylbenzene	ND		0.0302	50	09/03/2017 18:55	WG1015989
m&p-Xylene	ND		0.0603	50	09/03/2017 18:55	WG1015989
o-Xylene	ND		0.0302	50	09/03/2017 18:55	WG1015989
Methyl tert-butyl ether	ND		0.0603	50	09/03/2017 18:55	WG1015989
Naphthalene	ND		0.302	50	09/03/2017 18:55	WG1015989
1,3,5-Trimethylbenzene	ND		0.0603	50	09/03/2017 18:55	WG1015989
1,2,4-Trimethylbenzene	ND		0.0603	50	09/03/2017 18:55	WG1015989
TPH (GC/FID) Low Fraction	ND		6.03	50	09/03/2017 18:55	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 18:55	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.2		1	09/06/2017 16:20	WG1017279

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0263	50	09/03/2017 19:19	WG1015989
Toluene	ND		0.263	50	09/03/2017 19:19	WG1015989
Ethylbenzene	ND		0.0263	50	09/03/2017 19:19	WG1015989
m&p-Xylene	ND		0.0525	50	09/03/2017 19:19	WG1015989
o-Xylene	ND		0.0263	50	09/03/2017 19:19	WG1015989
Methyl tert-butyl ether	ND		0.0525	50	09/03/2017 19:19	WG1015989
Naphthalene	ND		0.263	50	09/03/2017 19:19	WG1015989
1,3,5-Trimethylbenzene	ND		0.0525	50	09/03/2017 19:19	WG1015989
1,2,4-Trimethylbenzene	ND		0.0525	50	09/03/2017 19:19	WG1015989
TPH (GC/FID) Low Fraction	ND		5.25	50	09/03/2017 19:19	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	103		80.0-200		09/03/2017 19:19	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.7		1	09/06/2017 16:20	WG1017279

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0261	50	09/03/2017 19:42	WG1015989
Toluene	ND		0.261	50	09/03/2017 19:42	WG1015989
Ethylbenzene	ND		0.0261	50	09/03/2017 19:42	WG1015989
m&p-Xylene	ND		0.0523	50	09/03/2017 19:42	WG1015989
o-Xylene	ND		0.0261	50	09/03/2017 19:42	WG1015989
Methyl tert-butyl ether	ND		0.0523	50	09/03/2017 19:42	WG1015989
Naphthalene	ND		0.261	50	09/03/2017 19:42	WG1015989
1,3,5-Trimethylbenzene	ND		0.0523	50	09/03/2017 19:42	WG1015989
1,2,4-Trimethylbenzene	ND		0.0523	50	09/03/2017 19:42	WG1015989
TPH (GC/FID) Low Fraction	ND		5.23	50	09/03/2017 19:42	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 19:42	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.4		1	09/07/2017 09:45	WG1017280

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.153		0.0622	100	09/03/2017 20:06	WG1015989
Toluene	0.800		0.622	100	09/03/2017 20:06	WG1015989
Ethylbenzene	1.85		0.0622	100	09/03/2017 20:06	WG1015989
m&p-Xylene	38.0		0.124	100	09/03/2017 20:06	WG1015989
o-Xylene	23.7		0.0622	100	09/03/2017 20:06	WG1015989
Methyl tert-butyl ether	ND		0.124	100	09/03/2017 20:06	WG1015989
Naphthalene	3.91		0.622	100	09/03/2017 20:06	WG1015989
1,3,5-Trimethylbenzene	18.5		0.124	100	09/03/2017 20:06	WG1015989
1,2,4-Trimethylbenzene	78.3		1.24	1000	09/07/2017 14:55	WG1015989
TPH (GC/FID) Low Fraction	1150		124	1000	09/07/2017 14:55	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	117		80.0-200		09/03/2017 20:06	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	104		80.0-200		09/07/2017 14:55	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.7		1	09/07/2017 09:45	WG1017280

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0628	100	09/07/2017 15:18	WG1015989
Toluene	ND		0.628	100	09/07/2017 15:18	WG1015989
Ethylbenzene	ND		0.0628	100	09/07/2017 15:18	WG1015989
m&p-Xylene	0.457		0.126	100	09/07/2017 15:18	WG1015989
o-Xylene	0.415		0.0628	100	09/07/2017 15:18	WG1015989
Methyl tert-butyl ether	ND		0.126	100	09/07/2017 15:18	WG1015989
Naphthalene	ND		0.628	100	09/07/2017 15:18	WG1015989
1,3,5-Trimethylbenzene	0.584		0.126	100	09/07/2017 15:18	WG1015989
1,2,4-Trimethylbenzene	1.58		0.126	100	09/07/2017 15:18	WG1015989
TPH (GC/FID) Low Fraction	16.7		12.6	100	09/07/2017 15:18	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	103		80.0-200		09/07/2017 15:18	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.9		1	09/07/2017 09:45	WG1017280

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0383	62	09/03/2017 20:53	WG1015989
Toluene	ND		0.383	62	09/03/2017 20:53	WG1015989
Ethylbenzene	0.402		0.0383	62	09/03/2017 20:53	WG1015989
m&p-Xylene	1.06		0.0766	62	09/03/2017 20:53	WG1015989
o-Xylene	0.455		0.0383	62	09/03/2017 20:53	WG1015989
Methyl tert-butyl ether	0.106		0.0766	62	09/03/2017 20:53	WG1015989
Naphthalene	ND		0.383	62	09/03/2017 20:53	WG1015989
1,3,5-Trimethylbenzene	5.82		0.0766	62	09/03/2017 20:53	WG1015989
1,2,4-Trimethylbenzene	4.62		0.0766	62	09/03/2017 20:53	WG1015989
TPH (GC/FID) Low Fraction	329		38.3	310	09/07/2017 15:42	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 20:53	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/07/2017 15:42	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/30/17 09:18

L933217

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.7		1	09/07/2017 09:45	WG1017280

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0288	50	09/03/2017 21:16	WG1015989
Toluene	ND		0.288	50	09/03/2017 21:16	WG1015989
Ethylbenzene	ND		0.0288	50	09/03/2017 21:16	WG1015989
m&p-Xylene	ND		0.0577	50	09/03/2017 21:16	WG1015989
o-Xylene	ND		0.0288	50	09/03/2017 21:16	WG1015989
Methyl tert-butyl ether	0.0634		0.0577	50	09/03/2017 21:16	WG1015989
Naphthalene	ND		0.288	50	09/03/2017 21:16	WG1015989
1,3,5-Trimethylbenzene	ND		0.0577	50	09/03/2017 21:16	WG1015989
1,2,4-Trimethylbenzene	ND		0.0577	50	09/03/2017 21:16	WG1015989
TPH (GC/FID) Low Fraction	ND		5.77	50	09/03/2017 21:16	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 21:16	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.2		1	09/07/2017 09:45	WG1017280

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0262	50	09/03/2017 21:40	WG1015989
Toluene	ND		0.262	50	09/03/2017 21:40	WG1015989
Ethylbenzene	ND		0.0262	50	09/03/2017 21:40	WG1015989
m&p-Xylene	ND		0.0525	50	09/03/2017 21:40	WG1015989
o-Xylene	ND		0.0262	50	09/03/2017 21:40	WG1015989
Methyl tert-butyl ether	0.0660		0.0525	50	09/03/2017 21:40	WG1015989
Naphthalene	ND		0.262	50	09/03/2017 21:40	WG1015989
1,3,5-Trimethylbenzene	ND		0.0525	50	09/03/2017 21:40	WG1015989
1,2,4-Trimethylbenzene	ND		0.0525	50	09/03/2017 21:40	WG1015989
TPH (GC/FID) Low Fraction	ND		5.25	50	09/03/2017 21:40	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 21:40	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.0		1	09/07/2017 09:45	WG1017280

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0261	50	09/03/2017 22:04	WG1015989
Toluene	ND		0.261	50	09/03/2017 22:04	WG1015989
Ethylbenzene	ND		0.0261	50	09/03/2017 22:04	WG1015989
m&p-Xylene	ND		0.0521	50	09/03/2017 22:04	WG1015989
o-Xylene	ND		0.0261	50	09/03/2017 22:04	WG1015989
Methyl tert-butyl ether	0.0526		0.0521	50	09/03/2017 22:04	WG1015989
Naphthalene	ND		0.261	50	09/03/2017 22:04	WG1015989
1,3,5-Trimethylbenzene	ND		0.0521	50	09/03/2017 22:04	WG1015989
1,2,4-Trimethylbenzene	ND		0.0521	50	09/03/2017 22:04	WG1015989
TPH (GC/FID) Low Fraction	ND		5.21	50	09/03/2017 22:04	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 22:04	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/30/17 10:00

L933217

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.9		1	09/07/2017 09:45	WG1017280

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.0263	50	09/03/2017 22:27	WG1015989
Toluene	ND		0.263	50	09/03/2017 22:27	WG1015989
Ethylbenzene	ND		0.0263	50	09/03/2017 22:27	WG1015989
m&p-Xylene	ND		0.0527	50	09/03/2017 22:27	WG1015989
o-Xylene	ND		0.0263	50	09/03/2017 22:27	WG1015989
Methyl tert-butyl ether	0.0605		0.0527	50	09/03/2017 22:27	WG1015989
Naphthalene	ND		0.263	50	09/03/2017 22:27	WG1015989
1,3,5-Trimethylbenzene	ND		0.0527	50	09/03/2017 22:27	WG1015989
1,2,4-Trimethylbenzene	ND		0.0527	50	09/03/2017 22:27	WG1015989
TPH (GC/FID) Low Fraction	ND		5.27	50	09/03/2017 22:27	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 22:27	WG1015989

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.7		1	09/07/2017 09:45	WG1017280

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0302	50	09/03/2017 22:51	WG1015989
Toluene	ND		0.302	50	09/03/2017 22:51	WG1015989
Ethylbenzene	ND		0.0302	50	09/03/2017 22:51	WG1015989
m&p-Xylene	ND		0.0605	50	09/03/2017 22:51	WG1015989
o-Xylene	ND		0.0302	50	09/03/2017 22:51	WG1015989
Methyl tert-butyl ether	0.0678		0.0605	50	09/03/2017 22:51	WG1015989
Naphthalene	ND		0.302	50	09/03/2017 22:51	WG1015989
1,3,5-Trimethylbenzene	ND		0.0605	50	09/03/2017 22:51	WG1015989
1,2,4-Trimethylbenzene	ND		0.0605	50	09/03/2017 22:51	WG1015989
TPH (GC/FID) Low Fraction	ND		6.05	50	09/03/2017 22:51	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 22:51	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.0		1	09/07/2017 09:45	WG1017280

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0308	50	09/03/2017 23:14	WG1015989
Toluene	ND		0.308	50	09/03/2017 23:14	WG1015989
Ethylbenzene	ND		0.0308	50	09/03/2017 23:14	WG1015989
m&p-Xylene	ND		0.0617	50	09/03/2017 23:14	WG1015989
o-Xylene	ND		0.0308	50	09/03/2017 23:14	WG1015989
Methyl tert-butyl ether	ND		0.0617	50	09/03/2017 23:14	WG1015989
Naphthalene	0.695		0.308	50	09/03/2017 23:14	WG1015989
1,3,5-Trimethylbenzene	ND		0.0617	50	09/03/2017 23:14	WG1015989
1,2,4-Trimethylbenzene	ND		0.0617	50	09/03/2017 23:14	WG1015989
TPH (GC/FID) Low Fraction	34.3		6.17	50	09/03/2017 23:14	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	102		80.0-200		09/03/2017 23:14	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.3		1	09/07/2017 09:45	WG1017280

Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.0307	50	09/03/2017 23:38	WG1015989
Toluene	ND		0.307	50	09/03/2017 23:38	WG1015989
Ethylbenzene	ND		0.0307	50	09/03/2017 23:38	WG1015989
m&p-Xylene	ND		0.0615	50	09/03/2017 23:38	WG1015989
o-Xylene	ND		0.0307	50	09/03/2017 23:38	WG1015989
Methyl tert-butyl ether	0.0760		0.0615	50	09/03/2017 23:38	WG1015989
Naphthalene	ND		0.307	50	09/03/2017 23:38	WG1015989
1,3,5-Trimethylbenzene	ND		0.0615	50	09/03/2017 23:38	WG1015989
1,2,4-Trimethylbenzene	ND		0.0615	50	09/03/2017 23:38	WG1015989
TPH (GC/FID) Low Fraction	ND		6.15	50	09/03/2017 23:38	WG1015989
(S) a,a,a-Trifluorotoluene(PID)	101		80.0-200		09/03/2017 23:38	WG1015989

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3247464-1 09/06/17 16:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000900			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L933217-03 Original Sample (OS) • Duplicate (DUP)

(OS) L933217-03 09/06/17 16:20 • (DUP) R3247464-3 09/06/17 16:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	93.1	91.8	1	1.45		5

Laboratory Control Sample (LCS)

(LCS) R3247464-2 09/06/17 16:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3247777-1 09/07/17 09:45

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00140			

¹ Cp

² Tc

³ Ss

L933217-11 Original Sample (OS) • Duplicate (DUP)

(OS) L933217-11 09/07/17 09:45 • (DUP) R3247777-3 09/07/17 09:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	80.4	80.2	1	0.332		5

⁴ Cn

⁵ Sr

Laboratory Control Sample (LCS)

(LCS) R3247777-2 09/07/17 09:45

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3247549-3 09/03/17 13:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	0.000931	↓	0.000880	0.000500
Toluene	U		0.000161	0.00500
Ethylbenzene	U		0.000910	0.000500
m&p-Xylene	0.000215	↓	0.000154	0.00100
o-Xylene	U		0.000960	0.000500
Methyl tert-butyl ether	U		0.000160	0.00100
Naphthalene	U		0.00104	0.00500
1,3,5-Trimethylbenzene	U		0.000820	0.00100
1,2,4-Trimethylbenzene	0.000114	↓	0.000107	0.00100
TPH (GC/FID) Low Fraction	U		0.0110	0.100
(S) a,a,a-Trifluorotoluene(PID)	100			80.0-200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247549-1 09/03/17 12:38 • (LCSD) R3247549-8 09/04/17 00:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0462	0.0478	92.4	95.7	80.0-120			3.50	20
Toluene	0.0500	0.0472	0.0494	94.5	98.7	80.0-120			4.40	20
Ethylbenzene	0.0500	0.0481	0.0501	96.3	100	80.0-120			3.94	20
m&p-Xylene	0.100	0.103	0.107	103	107	80.0-120			3.67	20
o-Xylene	0.0500	0.0484	0.0506	96.8	101	80.0-120			4.37	20
Methyl tert-butyl ether	0.0500	0.0478	0.0485	95.7	97.0	80.0-120			1.35	20
Naphthalene	0.0500	0.0505	0.0485	101	97.1	80.0-120			3.95	20
1,3,5-Trimethylbenzene	0.0500	0.0500	0.0520	100	104	80.0-120			3.86	20
1,2,4-Trimethylbenzene	0.0500	0.0486	0.0501	97.1	100	80.0-120			3.16	20
(S) a,a,a-Trifluorotoluene(PID)				92.6	99.3	80.0-200				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247549-2 09/03/17 12:38 • (LCSD) R3247549-9 09/04/17 00:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	0.550	0.526	0.507	95.6	92.3	80.0-120			3.55	20
(S) a,a,a-Trifluorotoluene(PID)				92.6	99.3	80.0-200				



Volatile Organic Compounds (GC) by Method 8021B/WI(95) GRO L933217-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

L933217-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L933217-01 09/03/17 16:10 • (MS) R3247549-4 09/04/17 00:01 • (MSD) R3247549-6 09/04/17 00:25

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0588	ND	2.35	2.33	79.8	79.3	50	32.0-137			0.710	39
Toluene	0.0588	ND	3.56	2.52	121	85.8	50	20.0-142			34.1	42
Ethylbenzene	0.0588	ND	2.61	2.51	88.7	85.5	50	10.0-150			3.64	44
m&p-Xylene	0.118	ND	5.57	5.43	94.8	92.5	50	14.0-141			2.51	44
o-Xylene	0.0588	ND	2.68	2.60	91.1	88.4	50	10.0-157			2.94	44
Methyl tert-butyl ether	0.0588	ND	2.38	2.37	80.9	80.6	50	24.0-151			0.430	37
Naphthalene	0.0588	ND	2.40	2.45	81.9	83.3	50	80.0-120			1.71	20
1,3,5-Trimethylbenzene	0.0588	ND	2.57	2.60	87.5	88.5	50	80.0-120			1.05	20
1,2,4-Trimethylbenzene	0.0588	ND	2.77	2.65	94.0	89.8	50	80.0-120			4.51	20
(S) a,a,a-Trifluorotoluene(PID)					101	99.3		80.0-200				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L933217-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L933217-01 09/03/17 16:10 • (MS) R3247549-5 09/04/17 00:01 • (MSD) R3247549-7 09/04/17 00:25

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	0.646	ND	36.1	29.9	112	92.5	50	80.0-120			18.7	20
(S) a,a,a-Trifluorotoluene(PID)					101	99.3		80.0-200				



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

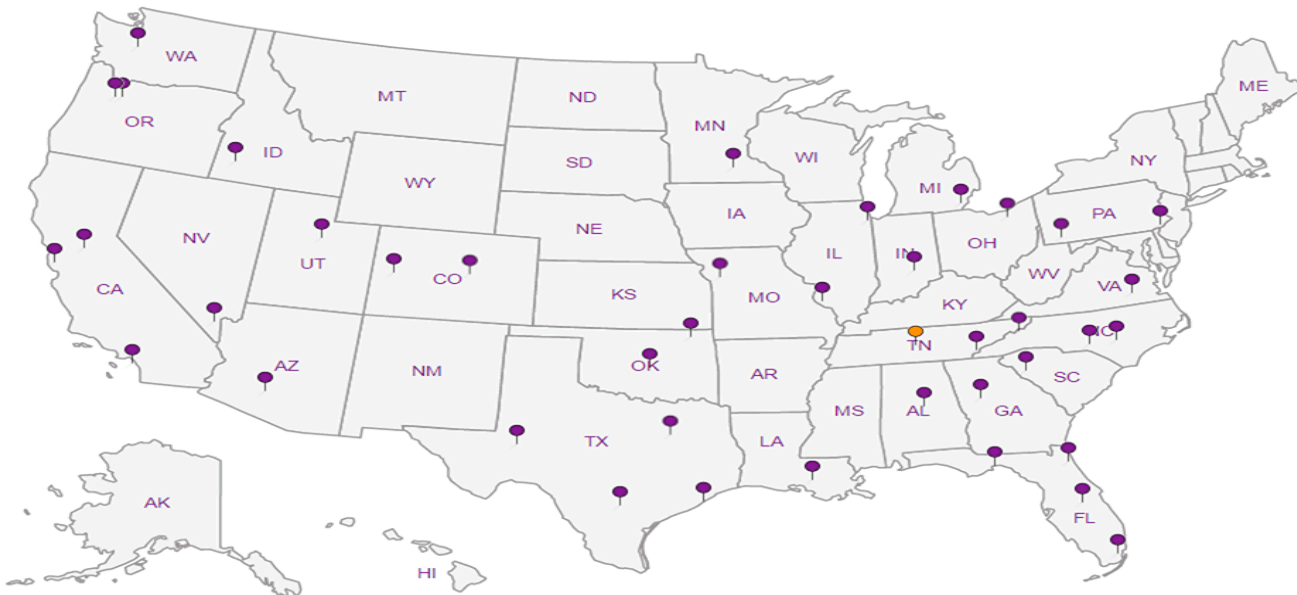
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MSA Professional Services

332 W. Superior Street, Suite 600
Duluth, MN 55802

Billing Information:
MSA Professionals
332 W. Superior St, Ste. 600
Duluth, MN 55802

Report to:
Erica Klingfus

Email To: eklingfus@msa-ps.com

Project
Description: **South Shore C-Store**

City/State
Collected: **Hewbster, WI**

Phone: 218-722-3915
Fax: 218-722-4548

Client Project #
18764001

Lab Project #
MSAPRODMN-18764001

Collected by (print):
Erica Klingfus

Site/Facility ID #

P.O. #

Collected by (signature):
[Signature]


Rush? (Lab MUST Be Notified)

Quote #

Same Day ___ Five Day ___
Next Day ___ 5 Day (Rad Only) ___
Immediately ___ Two Day ___ 10 Day (Rad Only) ___
Packed on Ice N ___ Y **X**
___ Three Day ___

Date Results Needed

No. of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative	Chain of Custody Page ___ of ___
S-1	GRAB	SS	4'	8/30/17	900	2	X X	 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 QR Code L# 933217 H010 Acctnum: MSAPRODMN Template: T127274 Prelogin: P615224 TSR: 341 - John Hawkins PB: CM 8-28-17 Shipped Via: FedEX Ground
S-2		SS	4'		904	2	X X	
S-3		SS	4'		906	2	X X	
S-4		SS	4'		910	2	X X	
S-5		SS	4'		914	2	X X	
S-6		SS	4'		916	2	X X	
S-7		SS	4'		920	2	X X	
S-8		SS	4'		922	2	X X	
S-9		SS	4'		924	2	X X	
S-10		SS	4'		926	2	X X	

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:
TWO COOLERS * * *

Samples returned via:
UPS ___ FedEx ___ Courier ___

Tracking # **7384 4206 2351**

pH ___ Temp ___
Flow ___ Other ___

Sample Receipt Checklist
 COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 IF Applicable:
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N

Relinquished by: (Signature) *[Signature]*

Date: **8/30/17** Time: **1600**

Received by: (Signature) *[Signature]*

Trip Blank Received: Yes (No) HCL/MeOH TBR

Relinquished by: (Signature) *[Signature]*

Date: Time:

Received by: (Signature)

Temp: **1.3** °C **50** Bottles Received: **40**

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature) *[Signature]*

Date: **8-31-17** Time: **8:45**

Hold: Condition: **NCF / OK**

MSA Professional Services

332 W. Superior Street, Suite 600
Duluth, MN 55802

Billing Information:
MSA Professionals
332 W. Superior St, Ste. 600
Duluth, MN 55802

Report to:
Erica Klingfus

Email To: eklingfus@msa-ps.com

Project
Description: South Shore C-Store

City/State
Collected: Herbster,
WI

Phone: 218-722-3915
Fax: 218-722-4548

Client Project #
18764001

Lab Project #
MSAPRODMN-18764001

Collected by (print):
Erica Klingfus

Site/Facility ID #

P.O. #

Collected by (Signature)

Rush? (Lab MUST Be Notified)

Quote #

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

Immediately
Packed on Ice N Y

Pres
Chk

Analysis / Container / Preservative

PVOCGRO 60mlAmb/MeOH/Syr

TS 4ozClr-NoPres

Chain of Custody Page ___ of ___



LAB SERVICES

subsidiary of

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 933217

Table #

Acctnum: MSAPRODMN

Template: T127274

Prelogin: P615224

TSR: 341 - John Hawkins

PB: Cm 8-28-17

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Entrs													
B-1	Grab	SS	6'	8/30/17	902	2	X	X											
B-2		SS	6'		908	2	X	X											
B-3		SS	6'		912	2	X	X											
B-4		SS	6'		918	2	X	X											
B-5		SS	6'		928	2	X	X											
B-6		SS	6'		930	2	X	X											
P-1		SS	3'		1000	2	X	X											
D-1		SS	2'		1036	2	X	X											
D-2		SS	2'		1038	2	X	X											
D-3		SS	2'		1040	2	X	X											

Remarks Sample # (lab only)

-11
-12
-13
-14
-15
-16
-17
-18
-19
-20

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

TWO COOLERS ***

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

UPS FedEx Courier

Tracking# 7372 1963 2778

Sample Receipt Checklist:

COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by: (Signature)

Date: 8/30/17 Time: 1600

Received by: (Signature)

Trip Blank Received: Yes/No
HCL/MeOH
TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: 12 °C Bottles Received: 40

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)

Date: 8-31-17 Time: 8:45

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

PHOTOGRAPHIC LOG

South Shore C-Store

14770 State Highway 13, Herbster, WI 54844

MSA Project No. 18764001



View of tank basin and C-Store Laundromat building facing northwest.



View of tank basin facing west.



View of groundwater filling excavation.



View of C-Store buildings and dispensers facing northwest.