



**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

[www.gtanalytical.com](http://www.gtanalytical.com)

Company: LAYLINE ENERGY  
Name:  
ClientProj: 2023505005  
GTA ProjNo: 041423-6

Site Addr: MARIAN SPILL

Sampled By: BRENDAN RUPPEN/GCES  
Date Rec: 4/13/2023  
Time Rec: 3:40 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	VSRS-1	4/13/2023	1:30 PM	SOIL
2	VSRS-2	4/13/2023	1:40 PM	SOIL
3	VSRS-3	4/13/2023	1:50 PM	SOIL
4	VSRS-4 (4')	4/13/2023	2:10 AM	SOIL
5	VSRS-5 (4')	4/13/2023	2:20 PM	SOIL
6	VSRS-6 (4')	4/13/2023	2:30 PM	SOIL
7	VS RF-1 (WATER)	4/13/2023	2:40 PM	WATER
8	VSRS-7 (4')	4/13/2023	3:00 PM	SOIL
9	VSRS-8 (4')	4/13/2023	3:10 PM	SOIL
10	VSRS-9 (4')	4/13/2023	3:20 PM	SOIL
11	VSRS-10 (4')	4/13/2023	3:30 PM	SOIL
12	VS RF-2 (WATER)	4/13/2023	3:40 PM	WATER
13	VS RF-3 (SOIL)	4/13/2023	3:50 PM	SOIL
14	VS RF-4 (SOIL)	4/13/2023	4:00 PM	SOIL
15	VS RF-5 (WATER)	4/13/2023	4:10 PM	WATER

ELECTRONIC SIGNATURE REPORT. This is a final report for the following pages of data for the samples specified above. All analysis was performed by the methods stated and all quality control measures required were completed. All quality control information is available upon request.

*Kirk Chase*

Kirk L. Chase/Chemist  
Grand Traverse Analytical  
830 Robinwood Court  
Traverse City, MI 49686  
Ph: 231-929-0905  
Fx: 231-929-0894  
SP: 231-590-0291  
[kirk@gtanalytical.com](mailto:kirk@gtanalytical.com)



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COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

MI

SAMPLE MATRIX: SOIL  
 SAMPLE ID: VSRS-1

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 1

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 1:30 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES

\*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	4/13/2023	4/18/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
 ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION



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COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

MI

SAMPLE MATRIX: SOIL  
 SAMPLE ID: VSRS-2

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 2

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 1:40 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES

\*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	4/13/2023	4/18/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
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COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: VSRS-3

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 3

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 1:50 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES

\*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	4/13/2023	4/18/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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COMPANY:	LAYLINE ENERGY	GTA PROJECT NO:	041423-6
PROJECT NO:	2023505005	GTA SAMPLE NO:	4
LOCATION:	MARIAN SPILL	DATE SAMPLED:	4/13/2023
		TIME SAMPLED:	2:10 AM
		DATE RECEIVED:	4/13/2023
	MI	TIME RECEIVED:	3:40 PM
SAMPLE MATRIX:	SOIL	SAMPLED BY:	BRENDAN RUPPEN/GCES
SAMPLE ID:	VSRS-4 (4')	**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.	

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	4/13/2023	4/18/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
 ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: VSRS-5 (4)

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 5

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 2:20 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES

\*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	6,700	50	ug/Kg (PPB)	MR	4/13/2023	4/18/2023	EPA 5035A
Toluene	32,000	50					
Ethylbenzene	5,200	50					
Xylene(Total)	31,000	150					
1,2,4-Trimethylbenzene	5,900	50					
1,3,5-Trimethylbenzene	3,100	50					
Naphthalene	290	250					
2-Methylnaphthalene	1,000	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005  
 LOCATION: MARIAN SPILL

MI

SAMPLE MATRIX: SOIL  
 SAMPLE ID: VSRS-6 (4)

GTA PROJECT NO: 041423-6  
 GTA SAMPLE NO: 6

DATE SAMPLED: 4/13/2023  
 TIME SAMPLED: 2:30 PM  
 DATE RECEIVED: 4/13/2023  
 TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES

\*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	4/13/2023	4/18/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: LAYLINE ENERGY  
 PROJECT NO: 2023505005  
 LOCATION: MARIAN SPILL  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: VSRF-1 (WATER)

GTA PROJECT NO: 041423-6  
 GTA SAMPLE NO: 7  
 DATE SAMPLED: 4/13/2023  
 TIME SAMPLED: 2:40 PM  
 DATE RECEIVED: 4/13/2023  
 TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		4/18/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
 ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION

COMPANY: LAYLINE ENERGY  
 PROJECT NO: 2023505005  
 LOCATION: MARIAN SPILL  
 MI  
 SAMPLE MATRIX: SOIL  
 SAMPLE ID: VSRS-7 (4')

GTA PROJECT NO: 041423-6  
 GTA SAMPLE NO: 8  
 DATE SAMPLED: 4/13/2023  
 TIME SAMPLED: 3:00 PM  
 DATE RECEIVED: 4/13/2023  
 TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES  
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**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	4/13/2023	4/18/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
 ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION

COMPANY: LAYLINE ENERGY  
PROJECT NO: 2023505005  
LOCATION: MARIAN SPILL  
  
MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: VSRS-8 (4)

GTA PROJECT NO: 041423-6  
GTA SAMPLE NO: 9  
DATE SAMPLED: 4/13/2023  
TIME SAMPLED: 3:10 PM  
DATE RECEIVED: 4/13/2023  
TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES  
\*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	4/13/2023	4/18/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
ND = NOT DETECTED, RESULT < LOD  
LOD = LIMIT OF DETECTION

COMPANY: LAYLINE ENERGY  
 PROJECT NO: 2023505005  
 LOCATION: MARIAN SPILL  
 MI  
 SAMPLE MATRIX: SOIL  
 SAMPLE ID: VSRS-9 (4)

GTA PROJECT NO: 041423-6  
 GTA SAMPLE NO: 10  
 DATE SAMPLED: 4/13/2023  
 TIME SAMPLED: 3:20 PM  
 DATE RECEIVED: 4/13/2023  
 TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES  
 \*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	300	50	ug/Kg (PPB)	MR	4/13/2023	4/18/2023	EPA 5035A
Toluene	120	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
 ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION

COMPANY: LAYLINE ENERGY  
PROJECT NO: 2023505005  
LOCATION: MARIAN SPILL  
MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: VSRS-10 (4')

GTA PROJECT NO: 041423-6  
GTA SAMPLE NO: 11  
DATE SAMPLED: 4/13/2023  
TIME SAMPLED: 3:30 PM  
DATE RECEIVED: 4/13/2023  
TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES  
\*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	4/13/2023	4/18/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
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COMPANY: LAYLINE ENERGY  
 PROJECT NO: 2023505005  
 LOCATION: MARIAN SPILL  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: VSRF-2 (WATER)

GTA PROJECT NO: 041423-6  
 GTA SAMPLE NO: 12  
 DATE SAMPLED: 4/13/2023  
 TIME SAMPLED: 3:40 PM  
 DATE RECEIVED: 4/13/2023  
 TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	7,300	50	ug/L (PPB)	MR		4/19/2023	EPA 5030B
Toluene	3,600	50					
Ethylbenzene	150	1.0					
Xylene(Total)	840	3.0					
1,2,4-Trimethylbenzene	150	1.0					
1,3,5-Trimethylbenzene	48	1.0					
Naphthalene	16	5.0					
2-Methylnaphthalene	25	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
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COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005  
 LOCATION: MARIAN SPILL

MI

SAMPLE MATRIX: SOIL  
 SAMPLE ID: VSRF-3 (SOIL)

GTA PROJECT NO: 041423-6  
 GTA SAMPLE NO: 13

DATE SAMPLED: 4/13/2023  
 TIME SAMPLED: 3:50 PM  
 DATE RECEIVED: 4/13/2023  
 TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES

\*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	2,600	50	ug/Kg (PPB)	MR	4/13/2023	4/19/2023	EPA 5035A
Toluene	6,700	50					
Ethylbenzene	1,100	50					
Xylene(Total)	7,100	150					
1,2,4-Trimethylbenzene	2,800	50					
1,3,5-Trimethylbenzene	1,000	50					
Naphthalene	ND	250					
2-Methylnaphthalene	590	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
 ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005  
 LOCATION: MARIAN SPILL

MI

SAMPLE MATRIX: SOIL  
 SAMPLE ID: VSRF-4 (SOIL)

GTA PROJECT NO: 041423-6  
 GTA SAMPLE NO: 14

DATE SAMPLED: 4/13/2023  
 TIME SAMPLED: 4:00 PM  
 DATE RECEIVED: 4/13/2023  
 TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES

\*\*THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	4/13/2023	4/18/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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 LOD = LIMIT OF DETECTION



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COMPANY: LAYLINE ENERGY  
 PROJECT NO: 2023505005  
 LOCATION: MARIAN SPILL  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: VSRF-5 (WATER)

GTA PROJECT NO: 041423-6  
 GTA SAMPLE NO: 15  
 DATE SAMPLED: 4/13/2023  
 TIME SAMPLED: 4:10 PM  
 DATE RECEIVED: 4/13/2023  
 TIME RECEIVED: 3:40 PM

SAMPLED BY: BRENDAN RUPPEN/GCES

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	270	1.0	ug/L (PPB)	MR		4/18/2023	EPA 5030B
Toluene	430	1.0					
Ethylbenzene	33	1.0					
Xylene(Total)	200	3.0					
1,2,4-Trimethylbenzene	27	1.0					
1,3,5-Trimethylbenzene	15	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	6.7	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
 ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 1

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 1:30 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID:	VSRS-1	220	120	mg/Kg (PPM)	KC/TR	4/20/2023	SOIL
	CHLORIDE EPA 300.0						

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 2

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 1:40 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID:	VSRS-2	180	130	mg/Kg (PPM)	KC/TR	4/20/2023	SOIL
	CHLORIDE EPA 300.0						

ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION  
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 3

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 1:50 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

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**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID:	VSRS-3	250	130	mg/Kg (PPM)	KC/TR	4/20/2023	SOIL
	CHLORIDE EPA 300.0						

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 4

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 2:10 AM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

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**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: VSRS-4 (4')						
	CHLORIDE EPA 300.0	ND	120	mg/Kg (PPM)	KC/TR	4/20/2023	SOIL

ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION  
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAYLINE ENERGY

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 5

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 2:20 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

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**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: VSRS-5 (4')						
	CHLORIDE EPA 300.0	380	110	mg/Kg (PPM)	KC/TR	4/20/2023	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAYLINE ENERGY

GTA PROJECT NO: 041423-6

PROJECT NO: 2023505005

GTA SAMPLE NO: 6

LOCATION: MARIAN SPILL

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 2:30 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

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**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: VSRS-6 (4')						
	CHLORIDE EPA 300.0	180	110	mg/Kg (PPM)	KC/TR	4/20/2023	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C



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COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 7

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 2:40 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

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**SAMPLE ANALYSIS**

**No: Analysis**

SAMPLE ID: VSRF-1 (WATER)

CHLORIDE EPA 300.0

**Concentration**

**LOD**

**Units**

**Analyst**

**Date Completed**

**Sample Matrix**

ND

10

mg/L (PPM)

KC/TR

4/20/2023

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 8

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 3:00 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

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**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID:	VSRS-7 (4')	240	110	mg/Kg (PPM)	KC/TR	4/20/2023	SOIL
	CHLORIDE EPA 300.0						

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 9

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 3:10 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: VSRS-8 (4')						
	CHLORIDE EPA 300.0	270	120	mg/Kg (PPM)	KC/TR	4/20/2023	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

MI  
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GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 10

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 3:20 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: VSRS-9 (4')						
	CHLORIDE EPA 300.0	320	110	mg/Kg (PPM)	KC/TR	4/20/2023	SOIL

ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION  
 s.u. = STANDARD pH UNITS REPORTED AT 25 C



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COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 11

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 3:30 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: VSRS-10 (4') CHLORIDE EPA 300.0	230	110	mg/Kg (PPM)	KC/TR	4/20/2023	SOIL

ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION  
 s.u. = STANDARD pH UNITS REPORTED AT 25 C



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COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 12

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 3:40 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: VSRF-2 (WATER) CHLORIDE EPA 300.0	52,000	1,000	mg/L (PPM)	KC/TR	4/20/2023	WATER

ND = NOT DETECTED, RESULT < LOD  
LOD = LIMIT OF DETECTION  
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

SAMPLED BY: MI  
 BRENDAN RUPPEN/GCES

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 13

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 3:50 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: VSRF-3 (SOIL) CHLORIDE EPA 300.0	4,100	240	mg/Kg (PPM)	KC/TR	4/20/2023	SOIL

ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION  
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 14

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 4:00 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

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**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: VSRF-4 (SOIL) CHLORIDE EPA 300.0	400	120	mg/Kg (PPM)	KC/TR	4/20/2023	SOIL

ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION  
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: MARIAN SPILL

GTA PROJECT NO: 041423-6

GTA SAMPLE NO: 15

DATE SAMPLED: 4/13/2023

TIME SAMPLED: 4:10 PM

DATE RECEIVED: 4/13/2023

TIME RECEIVED: 3:40 PM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: VSRF-5 (WATER) CHLORIDE EPA 300.0	200	10	mg/L (PPM)	KC	4/21/2023	WATER

ND = NOT DETECTED, RESULT < LOD  
 LOD = LIMIT OF DETECTION  
 s.u. = STANDARD pH UNITS REPORTED AT 25 C



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COMPANY: LAYLINE ENERGY

NAME:  
PROJECT NO: 2023505005

LOCATION: MARIAN SPILL  
  
MI

GTA PROJECT NO: 041423-  
SAMPLED BY: BRENDAN RUPPEN/GCES

DATE SAMPLED: 4/13/2023

SAMPLE MATRIX: SOIL

DATE RECEIVED: 4/13/2023  
TIME RECEIVED: 3:40 PM

**MOISTURE**

<u>No:</u> <u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
SAMPLE ID: VSRS-1 % MOISTURE EPA 3550C	19	0.10	% OF SAMPLE	AS	4/14/2023
SAMPLE ID: VSRS-2 % MOISTURE EPA 3550C	27	0.10	% OF SAMPLE	AS	4/14/2023
SAMPLE ID: VSRS-3 % MOISTURE EPA 3550C	25	0.10	% OF SAMPLE	AS	4/14/2023
SAMPLE ID: VSRS-4 (4') % MOISTURE EPA 3550C	16	0.10	% OF SAMPLE	AS	4/14/2023
SAMPLE ID: VSRS-5 (4') % MOISTURE EPA 3550C	15	0.10	% OF SAMPLE	AS	4/14/2023
SAMPLE ID: VSRS-6 (4') % MOISTURE EPA 3550C	14	0.10	% OF SAMPLE	AS	4/14/2023
SAMPLE ID: VSRS-7 (4') % MOISTURE EPA 3550C	11	0.10	% OF SAMPLE	AS	4/14/2023
SAMPLE ID: VSRS-8 (4') % MOISTURE EPA 3550C	17	0.10	% OF SAMPLE	AS	4/14/2023
SAMPLE ID: VSRS-9 (4') % MOISTURE EPA 3550C	9.2	0.10	% OF SAMPLE	AS	4/14/2023
SAMPLE ID: VSRS-10 (4') % MOISTURE EPA 3550C	16	0.10	% OF SAMPLE	AS	4/14/2023
SAMPLE ID: VSRF-3 (SOIL) % MOISTURE EPA 3550C	20	0.10	% OF SAMPLE	AS	4/14/2023
SAMPLE ID: VSRF-4 (SOIL) % MOISTURE EPA 3550C	18	0.10	% OF SAMPLE	AS	4/14/2023

**CHAIN OF CUSTODY**

PROJECT NUMBER <b>2023-505005</b>	SITE NAME/ADDRESS <b>Marion Spill</b>	COMPANY/NAME <b>Loyline Energy</b>
SAMPLED BY <b>Brendan Ruppen</b>	COMPANY <b>GCES</b>	GTA PROJECT # <b>041423-6</b>

**SAMPLE INFORMATION**

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	USRS-1	4/13/23	1:30	Soil	BTEX, Chloride
2	USRS-2	↓	1:40		↓
3	USRS-3		1:50		
4	USRS-4 (4')		2:10		
5	USRS-5 (4')		2:20		
6	USRS-6 (4')		2:30		
7	USRF-1 (water)		2:40	WATER	
8	USRS-7 (4')		3:00	Soil	
9	USRS-8 (4')		3:10		
10	USRS-9 (4')		3:20		
11	USRS-10 (4')		3:30		
12	USRF-2 (water)		3:40	WATER	
13	USRF-3 (soil)		3:50	Soil	
14	USRF-4 (soil)		4:00		
15	USRF-5 (water)		4:10	WATER	

BILL TO: <b>GCES</b>	TempRec: <input type="checkbox"/> <b>3.5 °C</b>	On Ice? <input checked="" type="checkbox"/> <input type="checkbox"/>	REPORT TO: <b>E. Vincke</b>
-------------------------	--	--	--------------------------------

RELEASED BY <b>B. Ruppen</b>	DATE/TIME <b>4/14/23 3:40</b>	RECEIVED BY <b>[Signature]</b>	DATE/TIME <b>4/14/23 3:40</b>
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REQUESTED TAT  STANDARD  1 BUSINESS DAY  2 BUSINESS DAYS  3 BUSINESS DAYS