



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: LAYLINE ENERGY
Name:
ClientProj: 2023505005
GTA ProjNo: 050123-10

Site Addr: ST. FEDERAL 1-6

Sampled By: BRENDAN RUPPEN/GCES
Date Rec: 5/1/2023
Time Rec: 4:40 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	F-2 (WATER)	4/28/2023	2:30 PM	WATER
2	F-5 (WATER)	4/28/2023	2:40 PM	WATER
3	S-5	4/28/2023	3:00 PM	SOIL
4	S-9	4/28/2023	3:15 PM	SOIL
5	F-3	4/28/2023	3:30 PM	SOIL

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

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COMPANY: LAYLINE ENERGY
 PROJECT NO: 2023505005
 LOCATION: ST. FEDERAL 1-6
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: F-2 (WATER)

GTA PROJECT NO: 050123-10
 GTA SAMPLE NO: 1
 DATE SAMPLED: 4/28/2023
 TIME SAMPLED: 2:30 PM
 DATE RECEIVED: 5/1/2023
 TIME RECEIVED: 4:40 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	200	1.0	ug/L (PPB)	MR		5/3/2023	EPA 5030B
Toluene	390	1.0					
Ethylbenzene	35	1.0					
Xylene(Total)	260	3.0					
1,2,4-Trimethylbenzene	40	1.0					
1,3,5-Trimethylbenzene	16	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	5.8	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: ST. FEDERAL 1-6

MI

SAMPLE MATRIX: WATER

SAMPLE ID: F-5 (WATER)

GTA PROJECT NO: 050123-10

GTA SAMPLE NO: 2

DATE SAMPLED: 4/28/2023

TIME SAMPLED: 2:40 PM

DATE RECEIVED: 5/1/2023

TIME RECEIVED: 4:40 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</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	200	1.0	ug/L (PPB)	MR		5/3/2023	EPA 5030B
Toluene	390	1.0					
Ethylbenzene	37	1.0					
Xylene(Total)	240	3.0					
1,2,4-Trimethylbenzene	31	1.0					
1,3,5-Trimethylbenzene	14	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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LOD = LIMIT OF DETECTION

COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: ST. FEDERAL 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: S-5

GTA PROJECT NO: 050123-10

GTA SAMPLE NO: 3

DATE SAMPLED: 4/28/2023

TIME SAMPLED: 3:00 PM

DATE RECEIVED: 5/1/2023

TIME RECEIVED: 4:40 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	4/28/2023	5/3/2023	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: ST. FEDERAL 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: S-9

GTA PROJECT NO: 050123-10

GTA SAMPLE NO: 4

DATE SAMPLED: 4/28/2023

TIME SAMPLED: 3:15 PM

DATE RECEIVED: 5/1/2023

TIME RECEIVED: 4:40 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	4/28/2023	5/3/2023	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: ST. FEDERAL 1-6

GTA PROJECT NO: 050123-10
 GTA SAMPLE NO: 5

DATE SAMPLED: 4/28/2023
 TIME SAMPLED: 3:30 PM
 DATE RECEIVED: 5/1/2023
 TIME RECEIVED: 4:40 PM

MI

SAMPLE MATRIX: SOIL
 SAMPLE ID: F-3

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	1,500	50	ug/Kg (PPB)	MR	4/28/2023	5/3/2023	EPA 5035A
Toluene	4,000	50					
Ethylbenzene	990	50					
Xylene(Total)	6,700	150					
1,2,4-Trimethylbenzene	3,200	50					
1,3,5-Trimethylbenzene	1,100	50					
Naphthalene	ND	250					
2-Methylnaphthalene	740	250					

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

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COMPANY: LAYLINE ENERGY

PROJECT NO: 2023505005

LOCATION: ST. FEDERAL 1-6

GTA PROJECT NO: 050123-10

GTA SAMPLE NO: 1

DATE SAMPLED: 4/28/2023

TIME SAMPLED: 2:30 PM

DATE RECEIVED: 5/1/2023

TIME RECEIVED: 4:40 PM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: F-2 (WATER)

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample Matrix

1,700

50

mg/L (PPM)

KC/TR

5/6/2023

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: ST. FEDERAL 1-6

GTA PROJECT NO: 050123-10
 GTA SAMPLE NO: 2

DATE SAMPLED: 4/28/2023
 TIME SAMPLED: 2:40 PM
 DATE RECEIVED: 5/1/2023
 TIME RECEIVED: 4:40 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: F-5 (WATER) CHLORIDE EPA 300.0	1,300	50	mg/L (PPM)	KC/TR	5/6/2023	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: ST. FEDERAL 1-6

GTA PROJECT NO: 050123-10
 GTA SAMPLE NO: 3
 DATE SAMPLED: 4/28/2023
 TIME SAMPLED: 3:00 PM
 DATE RECEIVED: 5/1/2023
 TIME RECEIVED: 4:40 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: S-5	CHLORIDE EPA 300.0	280	110	mg/Kg (PPM)	KC/AS	5/7/2023	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: ST. FEDERAL 1-6

GTA PROJECT NO: 050123-10
 GTA SAMPLE NO: 4
 DATE SAMPLED: 4/28/2023
 TIME SAMPLED: 3:15 PM
 DATE RECEIVED: 5/1/2023
 TIME RECEIVED: 4:40 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: S-9	CHLORIDE EPA 300.0	250	110	mg/Kg (PPM)	KC/AS	5/7/2023	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: ST. FEDERAL 1-6

GTA PROJECT NO: 050123-10
 GTA SAMPLE NO: 5
 DATE SAMPLED: 4/28/2023
 TIME SAMPLED: 3:30 PM
 DATE RECEIVED: 5/1/2023
 TIME RECEIVED: 4:40 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: F-3	CHLORIDE EPA 300.0	700	110	mg/Kg (PPM)	KC/AS	5/7/2023	SOIL

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COMPANY: LAYLINE ENERGY

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PROJECT NO: 2023505005

LOCATION: ST. FEDERAL 1-6

MI

GTA PROJECT NO: 050123-
SAMPLED BY: BRENDAN RUPPEN/GCES

DATE SAMPLED: 4/28/2023

SAMPLE MATRIX: SOIL

DATE RECEIVED: 5/1/2023
TIME RECEIVED: 4:40 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: S-5	% MOISTURE EPA 3550C	13	0.10	% OF SAMPLE	AS	5/2/2023
SAMPLE ID: S-9	% MOISTURE EPA 3550C	13	0.10	% OF SAMPLE	AS	5/2/2023
SAMPLE ID: F-3	% MOISTURE EPA 3550C	12	0.10	% OF SAMPLE	AS	5/2/2023

