

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: FEDERATED OIL & GAS PROPERTIES

Name:

ClientProj: 160529-0300

GTA ProjNo: 091124-1

Site Addr: CHARLIC FABLE

Sampled By: LMH-J/ECT

Date Rec: 9/11/2024

Time Rec: 10:20 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	NORTH SW	9/10/2024		SOIL
2	SOUTH SW	9/10/2024		SOIL
3	WEST SW	9/10/2024		SOIL
4	F-1	9/10/2024		SOIL
5	F-2	9/10/2024		SOIL
6	F-3	9/10/2024		SOIL
7	BTW P.J. & CELLER	9/10/2024		SOIL
8	EAST SIDE P.J.	9/10/2024		SOIL
9	WEST SIDE P.J.	9/10/2024		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

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

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COMPANY: FEDERATED OIL & GAS PROPERTIES

PROJECT NO: 160529-0300

LOCATION: CHARLIC FABLE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: NORTH SW

GTA PROJECT NO: 091124-1

GTA SAMPLE NO: 1

DATE SAMPLED: 9/10/2024

TIME SAMPLED:

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

SAMPLED BY: LMH-J/ECT

**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>Completed</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	9/10/2024	9/11/2024	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: FEDERATED OIL & GAS PROPERTIES

PROJECT NO: 160529-0300

LOCATION: CHARLIC FABLE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SOUTH SW

GTA PROJECT NO: 091124-1

GTA SAMPLE NO: 2

DATE SAMPLED: 9/10/2024

TIME SAMPLED:

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

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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: FEDERATED OIL & GAS PROPERTIES

PROJECT NO: 160529-0300

LOCATION: CHARLIC FABLE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: WEST SW

GTA PROJECT NO: 091124-1

GTA SAMPLE NO: 3

DATE SAMPLED: 9/10/2024

TIME SAMPLED:

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

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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: FEDERATED OIL & GAS PROPERTIES

PROJECT NO: 160529-0300

LOCATION: CHARLIC FABLE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: F-1

GTA PROJECT NO: 091124-1

GTA SAMPLE NO: 4

DATE SAMPLED: 9/10/2024

TIME SAMPLED:

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

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EPA 8260B VOLATILE ORGANICS

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Ethylbenzene	ND	50					
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1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
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2-Methylnaphthalene	ND	250					

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COMPANY: FEDERATED OIL & GAS PROPERTIES

PROJECT NO: 160529-0300

LOCATION: CHARLIC FABLE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: F-2

GTA PROJECT NO: 091124-1

GTA SAMPLE NO: 5

DATE SAMPLED: 9/10/2024

TIME SAMPLED:

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

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EPA 8260B VOLATILE ORGANICS

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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: FEDERATED OIL & GAS PROPERTIES

PROJECT NO: 160529-0300

LOCATION: CHARLIC FABLE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: F-3

GTA PROJECT NO: 091124-1

GTA SAMPLE NO: 6

DATE SAMPLED: 9/10/2024

TIME SAMPLED:

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

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Ethylbenzene	ND	50					
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1,3,5-Trimethylbenzene	ND	50					
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COMPANY: FEDERATED OIL & GAS PROPERTIES

PROJECT NO: 160529-0300

LOCATION: CHARLIC FABLE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: BTW P.J. & CELLER

GTA PROJECT NO: 091124-1

GTA SAMPLE NO: 7

DATE SAMPLED: 9/10/2024

TIME SAMPLED:

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

SAMPLED BY: LMH-J/ECT

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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>Completed</u>	<u>Prep Method</u>
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1,3,5-Trimethylbenzene	ND	50					
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COMPANY: FEDERATED OIL & GAS PROPERTIES

PROJECT NO: 160529-0300

LOCATION: CHARLIC FABLE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: EAST SIDE P.J.

GTA PROJECT NO: 091124-1

GTA SAMPLE NO: 8

DATE SAMPLED: 9/10/2024

TIME SAMPLED:

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

SAMPLED BY: LMH-J/ECT

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1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
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COMPANY: FEDERATED OIL & GAS PROPERTIES

PROJECT NO: 160529-0300
LOCATION: CHARLIC FABLE

MI

SAMPLE MATRIX: SOIL
SAMPLE ID: WEST SIDE P.J.

GTA PROJECT NO: 091124-1

GTA SAMPLE NO: 9

DATE SAMPLED: 9/10/2024

TIME SAMPLED:

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

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Ethylbenzene	ND	50					
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1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: FEDERATED OIL & GAS PROPERTIES
PROJECT NO: 160529-0300
LOCATION: CHARLIC FABLE
MI
SAMPLED BY: LMH-J/ECT

GTA PROJECT NO: 091124-1
GTA SAMPLE NO: 1
DATE SAMPLED: 9/10/2024
TIME SAMPLED:
DATE RECEIVED: 9/11/2024
TIME RECEIVED: 10:20 AM

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: NORTH SW CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	KC/AS	9/11/2024	SOIL

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

COMPANY: FEDERATED OIL & GAS PROPERTIES

GTA PROJECT NO: 091124-1

PROJECT NO: 160529-0300

GTA SAMPLE NO: 2

LOCATION: CHARLIC FABLE

DATE SAMPLED: 9/10/2024

TIME SAMPLED:

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

MI

SAMPLED BY: LMH-J/ECT

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: SOUTH SW

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample Matrix

ND

100

mg/Kg (PPM) KC/AS

9/11/2024

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: FEDERATED OIL & GAS PROPERTIES
PROJECT NO: 160529-0300
LOCATION: CHARLIC FABLE
MI
SAMPLED BY: LMH-J/ECT

GTA PROJECT NO: 091124-1
GTA SAMPLE NO: 3
DATE SAMPLED: 9/10/2024
TIME SAMPLED:
DATE RECEIVED: 9/11/2024
TIME RECEIVED: 10:20 AM

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: WEST SW CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	KC/AS	9/11/2024	SOIL

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

COMPANY: FEDERATED OIL & GAS PROPERTIES
PROJECT NO: 160529-0300
LOCATION: CHARLIC FABLE
MI
SAMPLED BY: LMH-J/ECT

GTA PROJECT NO: 091124-1
GTA SAMPLE NO: 4
DATE SAMPLED: 9/10/2024
TIME SAMPLED:
DATE RECEIVED: 9/11/2024
TIME RECEIVED: 10:20 AM

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-1 CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	KC/AS	9/11/2024	SOIL

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LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: FEDERATED OIL & GAS PROPERTIES

GTA PROJECT NO: 091124-1

PROJECT NO: 160529-0300

GTA SAMPLE NO: 5

LOCATION: CHARLIC FABLE

DATE SAMPLED: 9/10/2024

TIME SAMPLED:

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

MI

SAMPLED BY: LMH-J/ECT

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: F-2

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample Matrix

ND

100

mg/Kg (PPM) KC/AS

9/11/2024

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: FEDERATED OIL & GAS PROPERTIES
PROJECT NO: 160529-0300
LOCATION: CHARLIC FABLE
MI
SAMPLED BY: LMH-J/ECT

GTA PROJECT NO: 091124-1
GTA SAMPLE NO: 6
DATE SAMPLED: 9/10/2024
TIME SAMPLED:
DATE RECEIVED: 9/11/2024
TIME RECEIVED: 10:20 AM

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	ND	100	mg/Kg (PPM)	KC/AS	9/11/2024	SOIL

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

COMPANY:	FEDERATED OIL & GAS PROPERTIES	GTA PROJECT NO:	091124-1
PROJECT NO:	160529-0300	GTA SAMPLE NO:	7
LOCATION:	CHARLIC FABLE	DATE SAMPLED:	9/10/2024
		TIME SAMPLED:	
		DATE RECEIVED:	9/11/2024
		TIME RECEIVED:	10:20 AM
	MI		
SAMPLED BY:	LMH-J/ECT		

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: BTW P.J. & CELLER						
	CHLORIDE EPA 300.0	ND	110	mg/Kg (PPM)	KC/AS	9/11/2024	SOIL

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
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COMPANY: FEDERATED OIL & GAS PROPERTIES

GTA PROJECT NO: 091124-1

PROJECT NO: 160529-0300

GTA SAMPLE NO: 8

LOCATION: CHARLIC FABLE

DATE SAMPLED: 9/10/2024

TIME SAMPLED:

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

MI

SAMPLED BY: LMH-J/ECT

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: EAST SIDE P.J.

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample Matrix

ND

100

mg/Kg (PPM) KC/AS

9/11/2024

SOIL

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COMPANY: FEDERATED OIL & GAS PROPERTIES
PROJECT NO: 160529-0300
LOCATION: CHARLIC FABLE
MI
SAMPLED BY: LMH-J/ECT

GTA PROJECT NO: 091124-1
GTA SAMPLE NO: 9
DATE SAMPLED: 9/10/2024
TIME SAMPLED:
DATE RECEIVED: 9/11/2024
TIME RECEIVED: 10:20 AM

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: WEST SIDE P.J. CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	KC/AS	9/11/2024	SOIL

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: FEDERATED OIL & GAS PROPERTIES

GTA PROJECT NO: 091124-1

NAME:

SAMPLED BY: LMH-J/ECT

PROJECT NO: 160529-0300

DATE SAMPLED: 9/10/2024

LOCATION: CHARLIC FABLE

SAMPLE SOIL

DATE RECEIVED: 9/11/2024

TIME RECEIVED: 10:20 AM

MI

MOISTURE

No: Analysis	Concentration	LOD	Units	Analyst	Date Completed
SAMPLE ID: NORTH SW % MOISTURE EPA 3550C	6.0	0.10	% OF SAMPLE	AS	9/11/2024
SAMPLE ID: SOUTH SW % MOISTURE EPA 3550C	4.7	0.10	% OF SAMPLE	AS	9/11/2024
SAMPLE ID: WEST SW % MOISTURE EPA 3550C	5.1	0.10	% OF SAMPLE	AS	9/11/2024
SAMPLE ID: F-1 % MOISTURE EPA 3550C	5.6	0.10	% OF SAMPLE	AS	9/11/2024
SAMPLE ID: F-2 % MOISTURE EPA 3550C	7.4	0.10	% OF SAMPLE	AS	9/11/2024
SAMPLE ID: F-3 % MOISTURE EPA 3550C	3.2	0.10	% OF SAMPLE	AS	9/11/2024
SAMPLE ID: BTW P.J. & CELLER % MOISTURE EPA 3550C	7.1	0.10	% OF SAMPLE	AS	9/11/2024
SAMPLE ID: EAST SIDE P.J. % MOISTURE EPA 3550C	6.2	0.10	% OF SAMPLE	AS	9/11/2024
SAMPLE ID: WEST SIDE P.J. % MOISTURE EPA 3550C	4.6	0.10	% OF SAMPLE	AS	9/11/2024

