



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: IRONWOOD OIL COMPANY
Name:
ClientProj: 2023816001.01
GTA ProjNo: 092923-9

Site Addr: HOLIDAY #204

Sampled By: DJT/GCES
Date Rec: 9/29/2023
Time Rec: 2:30 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-3	9/27/2023	3:00 PM	WATER
2	MW-11	9/27/2023	3:30 PM	WATER
3	MW-14A	9/27/2023	4:30 PM	WATER
4	MW-14B	9/27/2023	4:55 PM	WATER
5	MW-8	9/28/2023	8:25 AM	WATER
6	MW-2	9/28/2023	9:00 AM	WATER
7	MW-4	9/28/2023	9:55 AM	WATER
8	MW-7	9/28/2023	10:50 AM	WATER
9	MW-5	9/28/2023	11:25 AM	WATER
10	MW-10D	9/28/2023	12:20 PM	WATER
11	MW-1	9/28/2023	12:45 PM	WATER
12	DUPLICATE	9/28/2023		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
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COMPANY: IRONWOOD OIL COMPANY
 PROJECT NO: 2023816001.01
 LOCATION: HOLIDAY #204
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-3

GTA PROJECT NO: 092923-9
 GTA SAMPLE NO: 1
 DATE SAMPLED: 9/27/2023
 TIME SAMPLED: 3:00 PM
 DATE RECEIVED: 9/29/2023
 TIME RECEIVED: 2:30 PM
 SAMPLED BY: DJT/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 Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2023	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					
Methyl-t-Butyl Ether	ND	5.0					
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



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COMPANY: IRONWOOD OIL COMPANY
 PROJECT NO: 2023816001.01
 LOCATION: HOLIDAY #204
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-11

GTA PROJECT NO: 092923-9
 GTA SAMPLE NO: 2
 DATE SAMPLED: 9/27/2023
 TIME SAMPLED: 3:30 PM
 DATE RECEIVED: 9/29/2023
 TIME RECEIVED: 2:30 PM

SAMPLED BY: DJT/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 Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2023	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					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: IRONWOOD OIL COMPANY
 PROJECT NO: 2023816001.01
 LOCATION: HOLIDAY #204
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-14A

GTA PROJECT NO: 092923-9
 GTA SAMPLE NO: 3
 DATE SAMPLED: 9/27/2023
 TIME SAMPLED: 4:30 PM
 DATE RECEIVED: 9/29/2023
 TIME RECEIVED: 2:30 PM
 SAMPLED BY: DJT/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 Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2023	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					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: IRONWOOD OIL COMPANY
 PROJECT NO: 2023816001.01
 LOCATION: HOLIDAY #204
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-14B

GTA PROJECT NO: 092923-9
 GTA SAMPLE NO: 4
 DATE SAMPLED: 9/27/2023
 TIME SAMPLED: 4:55 PM
 DATE RECEIVED: 9/29/2023
 TIME RECEIVED: 2:30 PM

SAMPLED BY: DJT/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 Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2023	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					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: IRONWOOD OIL COMPANY
 PROJECT NO: 2023816001.01
 LOCATION: HOLIDAY #204
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-8

GTA PROJECT NO: 092923-9
 GTA SAMPLE NO: 5
 DATE SAMPLED: 9/28/2023
 TIME SAMPLED: 8:25 AM
 DATE RECEIVED: 9/29/2023
 TIME RECEIVED: 2:30 PM

SAMPLED BY: DJT/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 Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2023	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					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: IRONWOOD OIL COMPANY
 PROJECT NO: 2023816001.01
 LOCATION: HOLIDAY #204
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-2

GTA PROJECT NO: 092923-9
 GTA SAMPLE NO: 6
 DATE SAMPLED: 9/28/2023
 TIME SAMPLED: 9:00 AM
 DATE RECEIVED: 9/29/2023
 TIME RECEIVED: 2:30 PM

SAMPLED BY: DJT/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 Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2023	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					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: IRONWOOD OIL COMPANY
 PROJECT NO: 2023816001.01
 LOCATION: HOLIDAY #204
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-4

GTA PROJECT NO: 092923-9
 GTA SAMPLE NO: 7
 DATE SAMPLED: 9/28/2023
 TIME SAMPLED: 9:55 AM
 DATE RECEIVED: 9/29/2023
 TIME RECEIVED: 2:30 PM

SAMPLED BY: DJT/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 Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2023	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					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: IRONWOOD OIL COMPANY
 PROJECT NO: 2023816001.01
 LOCATION: HOLIDAY #204
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-7

GTA PROJECT NO: 092923-9
 GTA SAMPLE NO: 8
 DATE SAMPLED: 9/28/2023
 TIME SAMPLED: 10:50 AM
 DATE RECEIVED: 9/29/2023
 TIME RECEIVED: 2:30 PM

SAMPLED BY: DJT/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 Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		10/5/2023	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					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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 LOD = LIMIT OF DETECTION



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COMPANY: IRONWOOD OIL COMPANY

PROJECT NO: 2023816001.01
 LOCATION: HOLIDAY #204

MI

SAMPLE MATRIX: WATER
 SAMPLE ID: MW-5

GTA PROJECT NO: 092923-9
 GTA SAMPLE NO: 9

DATE SAMPLED: 9/28/2023
 TIME SAMPLED: 11:25 AM
 DATE RECEIVED: 9/29/2023
 TIME RECEIVED: 2:30 PM

SAMPLED BY: DJT/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 Completed</u>	<u>Prep Method</u>
Benzene	85	1.0	ug/L (PPB)	MR		10/5/2023	EPA 5030B
Toluene	5.0	1.0					
Ethylbenzene	20	1.0					
Xylene(Total)	81	3.0					
1,2,4-Trimethylbenzene	12	1.0					
1,3,5-Trimethylbenzene	1.0	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	55	5.0					
2-Methylnaphthalene	32	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: IRONWOOD OIL COMPANY

PROJECT NO: 2023816001.01

LOCATION: HOLIDAY #204

MI

SAMPLE MATRIX: WATER
 SAMPLE ID: MW-10D

GTA PROJECT NO: 092923-9

GTA SAMPLE NO: 10

DATE SAMPLED: 9/28/2023

TIME SAMPLED: 12:20 PM

DATE RECEIVED: 9/29/2023

TIME RECEIVED: 2:30 PM

SAMPLED BY: DJT/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>Completed</u>	<u>Prep Method</u>
Benzene	710	25	ug/L (PPB)	MR		10/5/2023	EPA 5030B
Toluene	56	1.0					
Ethylbenzene	390	25					
Xylene(Total)	340	3.0					
1,2,4-Trimethylbenzene	120	1.0					
1,3,5-Trimethylbenzene	7.3	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	180	5.0					
2-Methylnaphthalene	130	5.0					

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COMPANY: IRONWOOD OIL COMPANY
 PROJECT NO: 2023816001.01
 LOCATION: HOLIDAY #204
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-1

GTA PROJECT NO: 092923-9
 GTA SAMPLE NO: 11
 DATE SAMPLED: 9/28/2023
 TIME SAMPLED: 12:45 PM
 DATE RECEIVED: 9/29/2023
 TIME RECEIVED: 2:30 PM

SAMPLED BY: DJT/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 Completed</u>	<u>Prep Method</u>
Benzene	830	50	ug/L (PPB)	MR		10/5/2023	EPA 5030B
Toluene	79	5.0					
Ethylbenzene	750	50					
Xylene(Total)	2,100	150					
1,2,4-Trimethylbenzene	950	50					
1,3,5-Trimethylbenzene	210	5.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	250	5.0					
2-Methylnaphthalene	160	5.0					

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COMPANY: IRONWOOD OIL COMPANY
 PROJECT NO: 2023816001.01
 LOCATION: HOLIDAY #204
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: DUPLICATE

GTA PROJECT NO: 092923-9
 GTA SAMPLE NO: 12
 DATE SAMPLED: 9/28/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/29/2023
 TIME RECEIVED: 2:30 PM

SAMPLED BY: DJT/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 Completed</u>	<u>Prep Method</u>
Benzene	650	25	ug/L (PPB)	MR		10/5/2023	EPA 5030B
Toluene	56	1.0					
Ethylbenzene	360	25					
Xylene(Total)	350	3.0					
1,2,4-Trimethylbenzene	120	1.0					
1,3,5-Trimethylbenzene	7.8	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	190	5.0					
2-Methylnaphthalene	140	5.0					

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

PROJECT NUMBER 2023816001.01	SITE NAME/ADDRESS Holly #204	COMPANY/NAME Ironwood Oil
SAMPLED BY DJT	COMPANY GCEIS	GTA PROJECT # 092923-9

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS	
1	MW-3	9/17/23	1500	GW	BTEX + 5	
2	MW-11		1530			
3	MW-14A		1630			
4	MW-14B		1655			
5	MW-8		9/28/23	825		
6	MW-2		900			
7	MW-4		955			
8	MW-7		1050			
9	MW-5		1125			
10	MW-10D		1220			
11	MW-1		1245			
12	Duplicate		-			

BILL TO: GCEIS	TempRec: <input type="checkbox"/> 1.2°C	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	REPORT TO: A. Segerling
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RELEASED BY <i>Rachel Glenn</i>	DATE/TIME 9/19/23 2:30	RECEIVED BY <i>A. Segerling</i>	DATE/TIME 9/29/23 2:30
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REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS