



**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: IRONWOOD OIL COMPANY  
Name:  
ClientProj: 89000066.04  
GTA ProjNo: 092920-11

Site Addr: HOLIDAY #182  
TRAVERSE CITY  
Sampled By: JOSHUA GERRIE/GCES  
Date Rec: 9/29/2020  
Time Rec: 3:45 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-3	9/29/2020		WATER
2	MW-4	9/29/2020		WATER
3	MW-5	9/29/2020		WATER
4	MW-8	9/29/2020		WATER
5	MW-13	9/29/2020		WATER
6	MW-14	9/29/2020		WATER
7	PW-3	9/29/2020		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)



**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  
 PROJECT NO: 89000066.04  
 LOCATION: HOLIDAY #182  
 TRVERSE CITY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-3

GTA PROJECT NO: 092920-11  
 GTA SAMPLE NO: 1  
 DATE SAMPLED: 9/29/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 9/29/2020  
 TIME RECEIVED: 3:45 PM

SAMPLED BY: JOSHUA GERRIE/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		10/1/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	3.5	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



**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  
 PROJECT NO: 89000066.04  
 LOCATION: HOLIDAY #182  
 TRAVERSE CITY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-4

GTA PROJECT NO: 092920-11  
 GTA SAMPLE NO: 2  
 DATE SAMPLED: 9/29/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 9/29/2020  
 TIME RECEIVED: 3:45 PM

SAMPLED BY: JOSHUA GERRIE/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		10/1/2020	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



**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  
 PROJECT NO: 89000066.04  
 LOCATION: HOLIDAY #182  
 TRVERSE CITY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-5

GTA PROJECT NO: 092920-11  
 GTA SAMPLE NO: 3  
 DATE SAMPLED: 9/29/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 9/29/2020  
 TIME RECEIVED: 3:45 PM

SAMPLED BY: JOSHUA GERRIE/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		10/1/2020	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



**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  
 PROJECT NO: 89000066.04  
 LOCATION: HOLIDAY #182  
 TRAVERSE CITY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-8

GTA PROJECT NO: 092920-11  
 GTA SAMPLE NO: 4  
 DATE SAMPLED: 9/29/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 9/29/2020  
 TIME RECEIVED: 3:45 PM

SAMPLED BY: JOSHUA GERRIE/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		10/1/2020	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

COMPANY: IRONWOOD OIL COMPANY  
PROJECT NO: 89000066.04  
LOCATION: HOLIDAY #182  
TRAVERSE CITY  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-13

GTA PROJECT NO: 092920-11  
GTA SAMPLE NO: 5  
DATE SAMPLED: 9/29/2020  
TIME SAMPLED:  
DATE RECEIVED: 9/29/2020  
TIME RECEIVED: 3:45 PM

SAMPLED BY: JOSHUA GERRIE/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	62	1.0	ug/L (PPB)	MR		10/1/2020	EPA 5030B
Toluene	5.3	1.0					
Ethylbenzene	52	1.0					
Xylene(Total)	130	3.0					
1,2,4-Trimethylbenzene	150	1.0					
1,3,5-Trimethylbenzene	5.5	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	29	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: IRONWOOD OIL COMPANY  
 PROJECT NO: 89000066.04  
 LOCATION: HOLIDAY #182  
 TRVERSE CITY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-14

GTA PROJECT NO: 092920-11  
 GTA SAMPLE NO: 6  
 DATE SAMPLED: 9/29/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 9/29/2020  
 TIME RECEIVED: 3:45 PM

SAMPLED BY: JOSHUA GERRIE/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	8.7	1.0	ug/L (PPB)	MR		10/1/2020	EPA 5030B
Toluene	20	1.0					
Ethylbenzene	73	1.0					
Xylene(Total)	520	51.0					
1,2,4-Trimethylbenzene	210	25.0					
1,3,5-Trimethylbenzene	74	1.0					
Methyl-t-Butyl Ether	ND	5.0					
Naphthalene	35	5.0					
2-Methylnaphthalene	17	5.0					

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



**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  
 PROJECT NO: 89000066.04  
 LOCATION: HOLIDAY #182  
 TRVERSE CITY  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: PW-3

GTA PROJECT NO: 092920-11  
 GTA SAMPLE NO: 7  
 DATE SAMPLED: 9/29/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 9/29/2020  
 TIME RECEIVED: 3:45 PM

SAMPLED BY: JOSHUA GERRIE/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	15	1.0	ug/L (PPB)	MR		10/1/2020	EPA 5030B
Toluene	2.3	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	10	3.0					
1,2,4-Trimethylbenzene	1.3	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

**CHAIN OF CUSTODY**

PROJECT NUMBER <b>89000066.04</b>	SITE NAME/ADDRESS <b>Holiday #182 Traverse City Ironwood Oil Co.</b>	COMPANY/NAME <b>Ironwood Oil Co.</b>
SAMPLED BY <b>Joshua Gemie</b>	COMPANY <b>Gosling Czubak</b>	GTA PROJECT # <b>092920-11</b>

**SAMPLE INFORMATION**

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	<del>ANALYSIS</del> ANALYSIS
1	MW-3	9-29-20		GW	<div style="border: 1px solid black; padding: 5px;">                     BTEX, MTBE, 1,2,4 TMB,                      1,3,5 TMB, Naphthalene,                      2-methylnaphthalene                 </div>
2	MW-4	↓		↓	
3	MW-5	↓		↓	
4	MW-8	↓		↓	
5	MW-13	↓		↓	
6	MW-14	↓		↓	
7	PW-3	↓		↓	

<b>BILL TO:</b> <b>GLCS</b>		<b>REPORT TO:</b> <b>Adam Segerlund</b>	
<b>RELEASED BY</b> <i>[Signature]</i>	<b>DATE/TIME</b> <b>9-29-20/1545</b>	<b>RECEIVED BY</b> <i>[Signature]</i>	<b>DATE/TIME</b> <b>9/29/20 1545</b>
		<b>Fee 3.60C</b>	

**REQUESTED TAT**  STANDARD  1 BUSINESS DAY  2 BUSINESS DAYS  3 BUSINESS DAYS