



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: HRF EXPLORATION & PRODUCTION
Name:
ClientProj: 13.052
GTA ProjNo: 091523-17

Site Addr: SOUTH RUST 10C
Sampled By: KWB/HURON
Date Rec: 9/15/2023
Time Rec: 12:30 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-2	9/14/2023		WATER
2	MW-3	9/14/2023		WATER
3	MW-4	9/14/2023		WATER
4	MW-5	9/14/2023		WATER
5	MW-6	9/14/2023		WATER
6	MW-7	9/14/2023		WATER
7	MW-8	9/14/2023		WATER
8	TW-1	9/14/2023		WATER
9	TW-2	9/14/2023		WATER
10	TW-3	9/14/2023		WATER
11	TW-4	9/14/2023		WATER
12	TW-5	9/14/2023		WATER
13	TW-6	9/14/2023		WATER
14	TW-7	9/14/2023		WATER
15	TW-8	9/14/2023		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
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COMPANY: HRF EXPLORATION & PRODUCTION
PROJECT NO: 13.052
LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 091523-17
GTA SAMPLE NO: 1

DATE SAMPLED: 9/14/2023
TIME SAMPLED:
DATE RECEIVED: 9/15/2023
TIME RECEIVED: 12:30 PM

MI
SAMPLED BY: KWB/HURON

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: MW-2 CHLORIDE EPA 300.0	290	10	mg/L (PPM)	KC/TR	9/20/2023	WATER

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

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 2
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 PM

SAMPLED BY: MI
 KWB/HURON

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: MW-3	CHLORIDE EPA 300.0	77	10	mg/L (PPM)	KC/TR	9/20/2023	WATER

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

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 3
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 PM

SAMPLED BY: MI
 KWB/HURON

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: MW-4 CHLORIDE EPA 300.0	410	10	mg/L (PPM)	KC/TR	9/20/2023	WATER

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

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 4
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 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: MW-5	CHLORIDE EPA 300.0	46	10	mg/L (PPM)	KC/TR	9/20/2023	WATER

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

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 5

DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 PM

MI
 SAMPLED BY: KWB/HURON

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: MW-6	CHLORIDE EPA 300.0	140	10	mg/L (PPM)	KC/TR	9/20/2023	WATER

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
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COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 6
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 PM

MI
 SAMPLED BY: KWB/HURON

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: MW-7	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	9/20/2023	WATER

ND = NOT DETECTED, RESULT < LOD
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COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 7
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 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: MW-8 CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	9/20/2023	WATER

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

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 8
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 PM

MI
 SAMPLED BY: KWB/HURON

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: TW-1	CHLORIDE EPA 300.0	55	10	mg/L (PPM)	KC/TR	9/25/2023	WATER

ND = NOT DETECTED, RESULT < LOD
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COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 9
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 PM

MI
 SAMPLED BY: KWB/HURON

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:	TW-2	80	10	mg/L (PPM)	KC/TR	9/25/2023	WATER
	CHLORIDE EPA 300.0						

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

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 10
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 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: TW-3	CHLORIDE EPA 300.0	450	20	mg/L (PPM)	KC/TR	9/25/2023	WATER

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

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 11
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 PM

MI
 SAMPLED BY: KWB/HURON

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: TW-4	CHLORIDE EPA 300.0	170	10	mg/L (PPM)	KC/TR	9/25/2023	WATER

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

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 12
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 PM

MI
 SAMPLED BY: KWB/HURON

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: TW-5	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	9/25/2023	WATER

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

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 13
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 PM

MI
 SAMPLED BY: KWB/HURON

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: TW-6 CHLORIDE EPA 300.0	280	10	mg/L (PPM)	KC/TR	9/25/2023	WATER

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

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 14
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 PM

SAMPLED BY: MI
 KWB/HURON

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: TW-7	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	9/25/2023	WATER

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
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COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 091523-17
 GTA SAMPLE NO: 15
 DATE SAMPLED: 9/14/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/15/2023
 TIME RECEIVED: 12:30 PM

MI
 SAMPLED BY: KWB/HURON

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: TW-8	CHLORIDE EPA 300.0	38	10	mg/L (PPM)	KC/TR	9/25/2023	WATER

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

1/4 ly Groundwater Monitoring

CHAIN OF CUSTODY

PROJECT NUMBER 13.052	SITE NAME/ADDRESS South Rust 10 C HRF Exploration & Production	COMPANY/NAME
SAMPLED BY Kimberly Wallis Burke		COMPANY Huron Engineering & Surveying
		GTA PROJECT # 091523-18-17

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
-	OW/MW 1	Dry - No Sample		GW	Chloride
1	MW 2	9/14/23			1.34
2	MW 3	↓			0.76
3	MW 4		1.74		
4	MW 5		0.63		
5	MW 6		0.95		
6	MW 7		0.42		
7	MW 8		0.54		
8	TW 1		0.53		
9	TW 2		0.88		
10	TW 3		1.98		
11	TW 4		1.07		
12	TW 5		0.34		
13	TW 6		1.40		
14	TW 7		0.47		
15	TW 8		0.54		
-	TW 9		Dry - No Sample		

Invoice & Report: **KWB Huron Engineering & Surveying**

RELEASED BY Kimberly Wallis-Burke	DATE/TIME	RECEIVED BY Alpena UPS	DATE/TIME 9/14/23
		[Signature]	9/15/23 12:30

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