



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: RIVERSIDE
Name:
ClientProj: 200838-0200
GTA ProjNo: 102122-15

Site Addr: BIG WOLF D3-25

Sampled By: B. BAUMANN/ECT
Date Rec: 10/21/2022
Time Rec: 12:56 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SB-1-12.5'	10/20/2022		SOIL
2	MW-13-14.5'	10/20/2022		SOIL
3	MW-12	10/20/2022	11:45 AM	WATER
4	MW-13	10/20/2022	12:05 PM	WATER
5	RW-1	10/20/2022	4:48 PM	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
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COMPANY: RIVERSIDE
PROJECT NO: 200838-0200
LOCATION: BIG WOLF D3-25

GTA PROJECT NO: 102122-15
GTA SAMPLE NO: 4

DATE SAMPLED: 10/20/2022
TIME SAMPLED: 12:05 PM
DATE RECEIVED: 10/21/2022
TIME RECEIVED: 12:56 PM

SAMPLED BY: B. BAUMANN/ECT

SAMPLE MATRIX: WATER

SAMPLE ID: MW-13

EPA 8260B VOLATILE ORGANICS

Units= ug/L (PPB)

Analyst= MR

Date Extracted=

Date Completed=10/24/2022 Prep Method=EPA 5030B

Analyte	Concentration	LOD
ACETONE	ND	25
ALLYL CHLORIDE	ND	10
BENZENE	ND	1.0
BROMOBENZENE	ND	1.0
BROMOCHLOROMETHANE	ND	1.0
BROMODICHLOROMETHANE	ND	1.0
BROMOFORM	ND	1.0
BROMOMETHANE	ND	1.0
n-BUTYLBENZENE	ND	1.0
s-BUTYLBENZENE	ND	1.0
t-BUTYLBENZENE	ND	1.0
CARBON DISULFIDE	ND	5.0
CARBON TETRACHLORIDE	ND	1.0
CHLOROBEZENE	ND	1.0
1-CHLOROBUTANE	ND	1.0
CHLOROFORM	ND	1.0
CHLOROETHANE	ND	1.0
CHLOROMETHANE	ND	1.0
2-CHLOROTOLUENE	ND	1.0
4-CHLOROTOLUENE	ND	1.0
DIBROMOCHLOROMETHANE	ND	1.0
DIBROMOMETHANE	ND	1.0
1,2-DIBROMOETHANE	ND	1.0
1,2-DICHLOROBENZENE	ND	1.0
1,3-DICHLOROBENZENE	ND	1.0
1,4-DICHLOROBENZENE	ND	1.0
t-1,4-DICHLORO-2-BUTENE	ND	10
DICHLORODIFLUOROMETHANE	ND	1.0
1,1-DICHLOROETHANE	ND	1.0
1,2-DICHLOROETHANE	ND	1.0
1,1-DICHLOROETHENE	ND	1.0
cis-1,2-DICHLOROETHENE	ND	1.0
trans-1,2-DICHLOROETHENE	ND	1.0
1,2-DICHLOROPROPANE	ND	1.0
1,3-DICHLOROPROPANE	ND	1.0
2,2-DICHLOROPROPANE	ND	1.0
1,1-DICHLOROPROPENE	ND	1.0

Analyte	Concentration	LOD
cis-1,3-DICHLOROPROPENE	ND	1.0
trans-1,3-DICHLOROPROPENE	ND	1.0
DIETHYL ETHER	ND	10
ETHYLBENZENE	ND	1.0
ETHYL METHACRYLATE	ND	10
HEXACHLOROBUTADIENE	ND	1.0
HEXACHLOROETHANE	ND	10
2-HEXANONE	ND	10
IDOMETHANE	ND	10
ISOPROPYLBENZENE	ND	1.0
ISOPROPYLTOLUENE	ND	1.0
METHYL ACRYLATE	ND	10
METHYL ETHYL KETONE	ND	10
METHYL-t-BUTYL ETHER	ND	5.0
METHYLENE CHLORIDE	ND	1.0
METHYL METHACRYLATE	ND	10
MIBK	ND	10
2-METHYLNAPHTHALENE	ND	5.0
NAPHTHALENE	ND	5.0
PENTACHLOROETHANE	ND	10
n-PROPYLBENZENE	ND	1.0
STYRENE	ND	1.0
1,1,1,2-TETRACHLOROETHANE	ND	1.0
1,1,2,2-TETRACHLOROETHANE	ND	1.0
TETRACHLOROETHENE	ND	1.0
TOLUENE	ND	1.0
1,2,3-TRICHLOROBENZENE	ND	1.0
1,2,4-TRICHLOROBENZENE	ND	1.0
1,1,1-TRICHLOROETHANE	ND	1.0
1,1,2-TRICHLOROETHANE	ND	1.0
TRICHLOROETHENE	ND	1.0
TRICHLORFLUOROMETHANE	ND	1.0
1,2,3-TRICHLOROPROPANE	ND	1.0
1,2,4-TRIMETHYLBENZENE	ND	1.0
1,3,5-TRIMETHYLBENZENE	ND	1.0
VINYL CHLORIDE	ND	1.0
XYLENE (TOTAL)	ND	3.0

ND = NOT DETECTED, RESULT IS <LOD.

LOD = LIMIT OF DETECTION.



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COMPANY: RIVERSIDE
PROJECT NO: 200838-0200
LOCATION: BIG WOLF D3-25

GTA PROJECT NO: 102122-15
GTA SAMPLE NO: 5

DATE SAMPLED: 10/20/2022
TIME SAMPLED: 4:48 PM
DATE RECEIVED: 10/21/2022
TIME RECEIVED: 12:56 PM

SAMPLED BY: B. BAUMANN/ECT

SAMPLE MATRIX: WATER

SAMPLE ID: RW-1

EPA 8260B VOLATILE ORGANICS

Units= ug/L (PPB)

Analyst= MR

Date Extracted=

Date Completed=10/24/2022 Prep Method=EPA 5030B

Analyte	Concentration	LOD
ACETONE	ND	25
ALLYL CHLORIDE	ND	10
BENZENE	ND	1.0
BROMOBENZENE	ND	1.0
BROMOCHLOROMETHANE	ND	1.0
BROMODICHLOROMETHANE	ND	1.0
BROMOFORM	ND	1.0
BROMOMETHANE	ND	1.0
n-BUTYLBENZENE	ND	1.0
s-BUTYLBENZENE	ND	1.0
t-BUTYLBENZENE	ND	1.0
CARBON DISULFIDE	ND	5.0
CARBON TETRACHLORIDE	ND	1.0
CHLOROBENZENE	ND	1.0
1-CHLOROBUTANE	ND	1.0
CHLOROFORM	ND	1.0
CHLOROETHANE	ND	1.0
CHLOROMETHANE	ND	1.0
2-CHLOROTOLUENE	ND	1.0
4-CHLOROTOLUENE	ND	1.0
DIBROMOCHLOROMETHANE	ND	1.0
DIBROMOMETHANE	ND	1.0
1,2-DIBROMOETHANE	ND	1.0
1,2-DICHLOROBENZENE	ND	1.0
1,3-DICHLOROBENZENE	ND	1.0
1,4-DICHLOROBENZENE	ND	1.0
t-1,4-DICHLORO-2-BUTENE	ND	10
DICHLORODIFLUOROMETHANE	ND	1.0
1,1-DICHLOROETHANE	ND	1.0
1,2-DICHLOROETHANE	ND	1.0
1,1-DICHLOROETHENE	ND	1.0
cis-1,2-DICHLOROETHENE	ND	1.0
trans-1,2-DICHLOROETHENE	ND	1.0
1,2-DICHLOROPROPANE	ND	1.0
1,3-DICHLOROPROPANE	ND	1.0
2,2-DICHLOROPROPANE	ND	1.0
1,1-DICHLOROPROPENE	ND	1.0

Analyte	Concentration	LOD
cis-1,3-DICHLOROPROPENE	ND	1.0
trans-1,3-DICHLOROPROPENE	ND	1.0
DIETHYL ETHER	ND	10
ETHYLBENZENE	ND	1.0
ETHYL METHACRYLATE	ND	10
HEXACHLOROBUTADIENE	ND	1.0
HEXACHLOROETHANE	ND	10
2-HEXANONE	ND	10
IDOMETHANE	ND	10
ISOPROPYLBENZENE	ND	1.0
ISOPROPYLTOLUENE	ND	1.0
METHYL ACRYLATE	ND	10
METHYL ETHYL KETONE	8,200	10
METHYL-t-BUTYL ETHER	ND	5.0
METHYLENE CHLORIDE	ND	1.0
METHYL METHACRYLATE	ND	10
MIBK	ND	10
2-METHYLNAPHTHALENE	ND	5.0
NAPHTHALENE	ND	5.0
PENTACHLOROETHANE	ND	10
n-PROPYLBENZENE	ND	1.0
STYRENE	ND	1.0
1,1,1,2-TETRACHLOROETHANE	ND	1.0
1,1,2,2-TETRACHLOROETHANE	ND	1.0
TETRACHLOROETHENE	ND	1.0
TOLUENE	ND	1.0
1,2,3-TRICHLOROBENZENE	ND	1.0
1,2,4-TRICHLOROBENZENE	ND	1.0
1,1,1-TRICHLOROETHANE	ND	1.0
1,1,2-TRICHLOROETHANE	ND	1.0
TRICHLOROETHENE	ND	1.0
TRICHLORFLUOROMETHANE	ND	1.0
1,2,3-TRICHLOROPROPANE	ND	1.0
1,2,4-TRIMETHYLBENZENE	ND	1.0
1,3,5-TRIMETHYLBENZENE	ND	1.0
VINYL CHLORIDE	ND	1.0
XYLENE (TOTAL)	ND	3.0

ND = NOT DETECTED, RESULT IS <LOD.

LOD = LIMIT OF DETECTION.

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COMPANY: RIVERSIDE

PROJECT NO: 200838-0200

LOCATION: BIG WOLF D3-25

GTA PROJECT NO: 102122-15

GTA SAMPLE NO: 1

DATE SAMPLED: 10/20/2022

TIME SAMPLED:

DATE RECEIVED: 10/21/2022

TIME RECEIVED: 12:56 PM

MI

SAMPLED BY: B. BAUMANN/ECT

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: SB-1-12.5'

CHLORIDE EPA 300.0

Concentration

ND

LOD

92

Units

mg/Kg (PPM)

Analyst

KC/AS

Date Completed

10/28/2022

Sample Matrix

SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: RIVERSIDE
PROJECT NO: 200838-0200
LOCATION: BIG WOLF D3-25

MI
SAMPLED BY: B. BAUMANN/ECT

GTA PROJECT NO: 102122-15
GTA SAMPLE NO: 2

DATE SAMPLED: 10/20/2022
TIME SAMPLED:
DATE RECEIVED: 10/21/2022
TIME RECEIVED: 12:56 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-13-14.5'						
	CHLORIDE EPA 300.0	4,600	97	mg/Kg (PPM)	KC/AS	10/28/2022	SOIL

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

COMPANY: RIVERSIDE

GTA PROJECT NO: 102122-15

PROJECT NO: 200838-0200

GTA SAMPLE NO: 3

LOCATION: BIG WOLF D3-25

DATE SAMPLED: 10/20/2022

TIME SAMPLED: 11:45 AM

DATE RECEIVED: 10/21/2022

TIME RECEIVED: 12:56 PM

MI

SAMPLED BY: B. BAUMANN/ECT

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-12

CHLORIDE EPA 300.0

Concentration

16

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

10/28/2022

Sample Matrix

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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COMPANY: RIVERSIDE

PROJECT NO: 200838-0200

LOCATION: BIG WOLF D3-25

MI

SAMPLED BY: B. BAUMANN/ECT

SAMPLE ID: MW-13

GTA PROJECT NO: 102122-15

GTA SAMPLE NO: 4

DATE SAMPLED: 10/20/2022

TIME SAMPLED: 12:05 PM

DATE RECEIVED: 10/21/2022

TIME RECEIVED: 12:56 PM

SAMPLE MATRIX: WATER

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	6.0	0.020	mg/L (PPM)	MR	11/1/2022	EPA 3005A
CALCIUM DISS EPA 6020A	400	2.0	mg/L (PPM)	MR	11/1/2022	EPA 3005A
IRON TOTAL EPA 6020A	13	0.20	mg/L (PPM)	MR	11/1/2022	EPA 3020A
MAGNESIUM DISS EPA 6020A	130	2.0	mg/L (PPM)	MR	11/1/2022	EPA 3005A
POTASSIUM DISS EPA 6020A	15	0.20	mg/L (PPM)	MR	11/1/2022	EPA 3005A
SODIUM DISS EPA 6020A	26,000	2.0	mg/L (PPM)	MR	11/1/2022	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

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DISS = DISSOLVED

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COMPANY: RIVERSIDE
PROJECT NO: 200838-0200
LOCATION: BIG WOLF D3-25
MI
SAMPLED BY: B. BAUMANN/ECT
SAMPLE ID: MW-13

GTA PROJECT NO: 102122-15
GTA SAMPLE NO: 4
DATE RECEIVED: 10/21/2022
TIME RECEIVED: 12:56 PM
DATE SAMPLED: 10/20/2022
TIME SAMPLED: 12:05 PM
SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	410	10	mg/L (PPM)	TR	10/26/2022
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	10/26/2022
CHLORIDE EPA 300.0	14,000	1,000	mg/L (PPM)	KC/TR	10/28/2022
CONDUCTIVITY SM2510-B	34,000	1.0	uS/cm@25C	TR	10/26/2022
pH EPA 150.1 - LAB	7.9	0.10	s.u.	TR	10/26/2022
RESISTIVITY SM 2510A	30	-	ohms x cm	TR	10/26/2022
SPECIFIC GRAVITY SM 2710F	1.023	-	-	TR	10/26/2022
SULFATE EPA 300.0	ND	50	mg/L (PPM)	KC/TR	10/31/2022
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	10/22/2022
TOTAL DISSOLVED SOLIDS EPA 160.1	23,000	5.0	mg/L (PPM)	TR	10/21/2022

ND = NOT DETECTED, RESULT < LOD

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COMPANY: RIVERSIDE
PROJECT NO: 200838-0200
LOCATION: BIG WOLF D3-25
MI
SAMPLED BY: B. BAUMANN/ECT
SAMPLE ID: RW-1

GTA PROJECT NO: 102122-15
GTA SAMPLE NO: 5
DATE SAMPLED: 10/20/2022
TIME SAMPLED: 4:48 PM
DATE RECEIVED: 10/21/2022
TIME RECEIVED: 12:56 PM
SAMPLE MATRIX: WATER

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	0.067	0.020	mg/L (PPM)	MR	11/1/2022	EPA 3005A
CALCIUM DISS EPA 6020A	40	0.20	mg/L (PPM)	MR	11/1/2022	EPA 3005A
IRON TOTAL EPA 6020A	0.51	0.20	mg/L (PPM)	MR	11/1/2022	EPA 3020A
MAGNESIUM DISS EPA 6020A	10	0.20	mg/L (PPM)	MR	11/1/2022	EPA 3005A
POTASSIUM DISS EPA 6020A	0.99	0.20	mg/L (PPM)	MR	11/1/2022	EPA 3005A
SODIUM DISS EPA 6020A	9.2	0.20	mg/L (PPM)	MR	11/1/2022	EPA 3005A

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MI
SAMPLED BY: B. BAUMANN/ECT
SAMPLE ID: RW-1

GTA PROJECT NO: 102122-15
GTA SAMPLE NO: 5
DATE RECEIVED: 10/21/2022
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TIME SAMPLED: 4:48 PM
SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	560	10	mg/L (PPM)	TR	10/26/2022
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	10/26/2022
CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	10/28/2022
CONDUCTIVITY SM2510-B	510	1.0	uS/cm@25C	TR	10/26/2022
pH EPA 150.1 - LAB	8.1	0.10	s.u.	TR	10/26/2022
RESISTIVITY SM 2510A	2,000	-	ohms x cm	TR	10/26/2022
SPECIFIC GRAVITY SM 2710F	1.008	-	-	TR	10/26/2022
SULFATE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	10/28/2022
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	10/22/2022
TOTAL DISSOLVED SOLIDS EPA 160.1	370	5.0	mg/L (PPM)	TR	10/21/2022

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COMPANY: RIVERSIDE

NAME:

PROJECT NO: 200838-0200

GTA PROJECT NO: 102122-

SAMPLED BY: B. BAUMANN/ECT

DATE SAMPLED: 10/20/2022

LOCATION: BIG WOLF D3-25

SAMPLE MATRIX: SOIL

DATE RECEIVED: 10/21/2022

TIME RECEIVED: 12:56 PM

MI

MOISTURE

No: Analysis

SAMPLE ID: SB-1-12.5'

% MOISTURE EPA 3550C

SAMPLE ID: MW-13-14.5'

% MOISTURE EPA 3550C

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
5.3	0.10	% OF SAMPLE	AS	10/21/2022
5.4	0.10	% OF SAMPLE	AS	10/21/2022

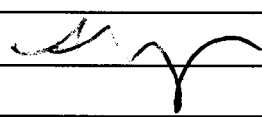
CHAIN OF CUSTODY

PROJECT NUMBER 200838-0200	SITE NAME/ADDRESS Big Wood D3-25	COMPANY/NAME RIVERSIDE
SAMPLED BY B. BAUMANN	COMPANY ECT	GTA PROJECT # 102122-15

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
	SB-1-12.5'	10/20/22	-	SOIL	CL
	MW-13-14.5'		-	SOIL	CL
	MW-12		1145	GW	CL
	MW-13		1205	GW	EPAUIC
	RW-1		1648	GW	EPAUIC

BILL TO: RIVERSIDE	TempRec: ☐ On Ice? ☒ 3.0°C	REPORT TO: BRIAN BAUMANN
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RELEASED BY 	DATE/TIME 10/21/22/1256	RECEIVED BY 	DATE/TIME 10/21/22/1256

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