



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: NATIONAL ENERGY
Name:
ClientProj: 202273001.00
GTA ProjNo: 072723-7

Site Addr: NATIONAL ENERGY OF MCBAIN

Sampled By: TSA/GCES
Date Rec: 7/27/2023
Time Rec: 4:15 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-4	7/27/2023	2:30 PM	WATER
2	MW-5	7/27/2023	11:05 AM	WATER
3	MW-6	7/27/2023	12:00 PM	WATER
4	MW-7	7/27/2023	1:20 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:	NATIONAL ENERGY	GTA PROJECT NO:	072723-7
PROJECT NO:	202273001.00	GTA SAMPLE NO:	1
LOCATION:	NATIONAL ENERGY OF MCBAIN	DATE SAMPLED:	7/27/2023
		TIME SAMPLED:	2:30 PM
		DATE RECEIVED:	7/27/2023
	MI	TIME RECEIVED:	4:15 PM
SAMPLED BY:	TSA/GCES	SAMPLE MATRIX:	WATER
SAMPLE ID:	MW-4		

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC TOTAL EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/4/2023	EPA 3020A
IRON TOTAL EPA 200.8	ND	0.010	mg/L (PPM)	MR	8/4/2023	EPA 3020A
MANGANESE TOTAL EPA 200.8	0.0021	0.0010	mg/L (PPM)	MR	8/4/2023	EPA 3020A
SODIUM TOTAL EPA 200.8	3.0	0.50	mg/L (PPM)	MR	8/4/2023	EPA 3020A

ND = NOT DETECTED, RESULT < LOD
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DISS = DISSOLVED



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COMPANY:	NATIONAL ENERGY	GTA PROJECT NO:	072723-7
PROJECT NO:	202273001.00	GTA SAMPLE NO:	1
LOCATION:	NATIONAL ENERGY OF MCBAIN	DATE RECEIVED:	7/27/2023
	MI	TIME RECEIVED:	4:15 PM
SAMPLED BY:	TSA/GCES	DATE SAMPLED:	7/27/2023
		TIME SAMPLED:	2:30 PM
SAMPLE ID:	MW-4	SAMPLE MATRIX:	WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
AMMONIA-N EPA 350.1	0.21	0.015	mg/L (PPM)	KC	8/14/2023
CHLORIDE EPA 300.0	24	10	mg/L (PPM)	KC/TR	7/28/2023
NITRATE-N EPA 300.0	ND	0.20	mg/L (PPM)	KC/TR	7/28/2023
NITRITE-N EPA 300.0	ND	0.20	mg/L (PPM)	KC/TR	7/28/2023
SULFATE EPA 300.0	460	10	mg/L (PPM)	KC/TR	7/28/2023
TOTAL PHOSPHORUS EPA 365.2	0.081	0.010	mg/L (PPM)	KC	8/14/2023

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COMPANY:	NATIONAL ENERGY	GTA PROJECT NO:	072723-7
PROJECT NO:	202273001.00	GTA SAMPLE NO:	2
LOCATION:	NATIONAL ENERGY OF MCBAIN	DATE SAMPLED:	7/27/2023
		TIME SAMPLED:	11:05 AM
		DATE RECEIVED:	7/27/2023
	MI	TIME RECEIVED:	4:15 PM
SAMPLED BY:	TSA/GCES	SAMPLE MATRIX:	WATER
SAMPLE ID:	MW-5		

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC TOTAL EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/4/2023	EPA 3020A
IRON TOTAL EPA 200.8	2.1	0.010	mg/L (PPM)	MR	8/4/2023	EPA 3020A
MANGANESE TOTAL EPA 200.8	0.081	0.0010	mg/L (PPM)	MR	8/4/2023	EPA 3020A
SODIUM TOTAL EPA 200.8	3.5	0.50	mg/L (PPM)	MR	8/4/2023	EPA 3020A

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COMPANY: NATIONAL ENERGY
 PROJECT NO: 202273001.00
 LOCATION: NATIONAL ENERGY OF MCBAIN
 MI
 SAMPLED BY: TSA/GCES
 SAMPLE ID: MW-5

GTA PROJECT NO: 072723-7
 GTA SAMPLE NO: 2
 DATE RECEIVED: 7/27/2023
 TIME RECEIVED: 4:15 PM
 DATE SAMPLED: 7/27/2023
 TIME SAMPLED: 11:05 AM
 SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
AMMONIA-N EPA 350.1	0.27	0.015	mg/L (PPM)	KC	8/14/2023
CHLORIDE EPA 300.0	29	10	mg/L (PPM)	KC/TR	7/28/2023
NITRATE-N EPA 300.0	ND	0.20	mg/L (PPM)	KC/TR	7/28/2023
NITRITE-N EPA 300.0	ND	0.20	mg/L (PPM)	KC/TR	7/28/2023
SULFATE EPA 300.0	38	1.0	mg/L (PPM)	KC/TR	7/28/2023
TOTAL PHOSPHORUS EPA 365.2	ND	0.010	mg/L (PPM)	KC	8/14/2023

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COMPANY:	NATIONAL ENERGY	GTA PROJECT NO:	072723-7
PROJECT NO:	202273001.00	GTA SAMPLE NO:	3
LOCATION:	NATIONAL ENERGY OF MCBAIN	DATE SAMPLED:	7/27/2023
		TIME SAMPLED:	12:00 PM
		DATE RECEIVED:	7/27/2023
	MI	TIME RECEIVED:	4:15 PM
SAMPLED BY:	TSA/GCES	SAMPLE MATRIX:	WATER
SAMPLE ID:	MW-6		

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC TOTAL EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/4/2023	EPA 3020A
IRON TOTAL EPA 200.8	0.71	0.010	mg/L (PPM)	MR	8/4/2023	EPA 3020A
MANGANESE TOTAL EPA 200.8	0.084	0.0010	mg/L (PPM)	MR	8/4/2023	EPA 3020A
SODIUM TOTAL EPA 200.8	1.6	0.50	mg/L (PPM)	MR	8/4/2023	EPA 3020A

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COMPANY: NATIONAL ENERGY
PROJECT NO: 202273001.00
LOCATION: NATIONAL ENERGY OF MCBAIN
MI
SAMPLED BY: TSA/GCES
SAMPLE ID: MW-6

GTA PROJECT NO: 072723-7
GTA SAMPLE NO: 3
DATE RECEIVED: 7/27/2023
TIME RECEIVED: 4:15 PM
DATE SAMPLED: 7/27/2023
TIME SAMPLED: 12:00 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>
AMMONIA-N EPA 350.1	0.77	0.015	mg/L (PPM)	KC	8/14/2023
CHLORIDE EPA 300.0	210	10	mg/L (PPM)	KC/TR	7/28/2023
NITRATE-N EPA 300.0	ND	0.20	mg/L (PPM)	KC/TR	7/28/2023
NITRITE-N EPA 300.0	ND	0.20	mg/L (PPM)	KC/TR	7/28/2023
SULFATE EPA 300.0	20	1.0	mg/L (PPM)	KC/TR	7/28/2023
TOTAL PHOSPHORUS EPA 365.2	ND	0.010	mg/L (PPM)	KC	8/14/2023

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LOD = LIMIT OF DETECTION
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COMPANY:	NATIONAL ENERGY	GTA PROJECT NO:	072723-7
PROJECT NO:	202273001.00	GTA SAMPLE NO:	4
LOCATION:	NATIONAL ENERGY OF MCBAIN	DATE SAMPLED:	7/27/2023
		TIME SAMPLED:	1:20 PM
		DATE RECEIVED:	7/27/2023
		TIME RECEIVED:	4:15 PM
SAMPLED BY:	MI TSA/GCES	SAMPLE MATRIX:	WATER
SAMPLE ID:	MW-7		

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC TOTAL EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/4/2023	EPA 3020A
IRON TOTAL EPA 200.8	0.41	0.010	mg/L (PPM)	MR	8/4/2023	EPA 3020A
MANGANESE TOTAL EPA 200.8	0.13	0.0010	mg/L (PPM)	MR	8/4/2023	EPA 3020A
SODIUM TOTAL EPA 200.8	1.1	0.50	mg/L (PPM)	MR	8/4/2023	EPA 3020A

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COMPANY: NATIONAL ENERGY
 PROJECT NO: 202273001.00
 LOCATION: NATIONAL ENERGY OF MCBAIN
 MI
 SAMPLED BY: TSA/GCES
 SAMPLE ID: MW-7

GTA PROJECT NO: 072723-7
 GTA SAMPLE NO: 4
 DATE RECEIVED: 7/27/2023
 TIME RECEIVED: 4:15 PM
 DATE SAMPLED: 7/27/2023
 TIME SAMPLED: 1:20 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>
AMMONIA-N EPA 350.1	0.080	0.015	mg/L (PPM)	KC	8/14/2023
CHLORIDE EPA 300.0	110	10	mg/L (PPM)	KC/TR	7/28/2023
NITRATE-N EPA 300.0	ND	0.20	mg/L (PPM)	KC/TR	7/28/2023
NITRITE-N EPA 300.0	ND	0.20	mg/L (PPM)	KC/TR	7/28/2023
SULFATE EPA 300.0	89	1.0	mg/L (PPM)	KC/TR	7/28/2023
TOTAL PHOSPHORUS EPA 365.2	ND	0.010	mg/L (PPM)	KC	8/14/2023

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CHAIN OF CUSTODY

PROJECT NUMBER 202273001.00	SITE NAME/ADDRESS National Energy of McBain	COMPANY/NAME National Energy
SAMPLED BY TSA	COMPANY GCEs	GTA PROJECT # 072723-7

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
	MW-4	7-27-23	14:30	GW	Arsenic, Iron, Manganese, Total phosphorus, Sodium, Chloride, Sulfate, Ammonia, Nitrite, Nitrate
	MW-5		11:05		
	MW-6		12:00		
	MW-7		13:20		

BILL TO: GCEs	TempRec: <input type="checkbox"/> 4.0°c	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	REPORT TO: E. Vincke
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RELEASED BY Trevor Adler Jim can	DATE/TIME 7/27/23 @ 16:15	RECEIVED BY <i>[Signature]</i>	DATE/TIME 7/27/23/1615
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REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS