



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: MACKINAC ENVIRONMENTAL
Name:
ClientProj: M16-2615
GTA ProjNo: 061319-4

Site Addr: WALSTROM CHEBOYGAN

Sampled By: BRAD JEFFERS/MET
Date Rec: 6/13/2019
Time Rec: 1:00 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	S-8	6/12/2019		SOIL
2	S-9	6/12/2019		SOIL
3	S-10	6/12/2019		SOIL
4	S-11	6/12/2019		SOIL
5	S-12	6/12/2019		SOIL
6	S-13	6/12/2019		SOIL
7	S-14	6/12/2019		SOIL
8	S-15	6/12/2019		SOIL
9	S-16	6/12/2019		SOIL

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 L Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
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COMPANY:	MACKINAC ENVIRONMENTAL	GTA PROJECT NO:	061319-4
PROJECT NO:	M16-2615	GTA SAMPLE NO:	1
LOCATION:	WALSTROM CHEBOYGAN	DATE SAMPLED:	6/12/2019
		TIME SAMPLED:	
		DATE RECEIVED:	6/13/2019
		TIME RECEIVED:	1:00 PM
SAMPLED BY:	MI BRAD JEFFERS/MET	SAMPLE MATRIX:	SOIL
SAMPLE ID:	S-8		

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 6020A	3.3	0.34	mg/Kg (PPM)	MR/TR	6/17/2019	EPA 3050B
MERCURY TOTAL EPA 7471A	ND	0.018	mg/Kg (PPM)	MR	6/18/2019	EPA 7471

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY:	MACKINAC ENVIRONMENTAL	GTA PROJECT NO:	061319-4
PROJECT NO:	M16-2615	GTA SAMPLE NO:	2
LOCATION:	WALSTROM CHEBOYGAN	DATE SAMPLED:	6/12/2019
		TIME SAMPLED:	
		DATE RECEIVED:	6/13/2019
		TIME RECEIVED:	1:00 PM
SAMPLED BY:	MI BRAD JEFFERS/MET	SAMPLE MATRIX:	SOIL
SAMPLE ID:	S-9		

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 6020A	1.07	0.40	mg/Kg (PPM)	MR/TR	6/17/2019	EPA 3050B
MERCURY TOTAL EPA 7471A	0.12	0.018	mg/Kg (PPM)	MR	6/18/2019	EPA 7471

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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M16-2615
LOCATION: WALSTROM CHEBOYGAN
MI
SAMPLED BY: BRAD JEFFERS/MET
SAMPLE ID: S-10

GTA PROJECT NO: 061319-4
GTA SAMPLE NO: 3
DATE SAMPLED: 6/12/2019
TIME SAMPLED:
DATE RECEIVED: 6/13/2019
TIME RECEIVED: 1:00 PM
SAMPLE MATRIX: SOIL

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 6020A	5.4	0.37	mg/Kg (PPM)	MR/TR	6/17/2019	EPA 3050B
MERCURY TOTAL EPA 7471A	0.099	0.016	mg/Kg (PPM)	MR	6/18/2019	EPA 7471

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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M16-2615
LOCATION: WALSTROM CHEBOYGAN
MI
SAMPLED BY: BRAD JEFFERS/MET
SAMPLE ID: S-11

GTA PROJECT NO: 061319-4
GTA SAMPLE NO: 4
DATE SAMPLED: 6/12/2019
TIME SAMPLED:
DATE RECEIVED: 6/13/2019
TIME RECEIVED: 1:00 PM
SAMPLE MATRIX: SOIL

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 6020A	2.0	0.28	mg/Kg (PPM)	MR/TR	6/17/2019	EPA 3050B
MERCURY TOTAL EPA 7471A	0.024	0.015	mg/Kg (PPM)	MR	6/18/2019	EPA 7471

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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M16-2615
LOCATION: WALSTROM CHEBOYGAN
MI
SAMPLED BY: BRAD JEFFERS/MET
SAMPLE ID: S-12

GTA PROJECT NO: 061319-4
GTA SAMPLE NO: 5
DATE SAMPLED: 6/12/2019
TIME SAMPLED:
DATE RECEIVED: 6/13/2019
TIME RECEIVED: 1:00 PM
SAMPLE MATRIX: SOIL

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 6020A	1.4	0.31	mg/Kg (PPM)	MR/TR	6/17/2019	EPA 3050B
MERCURY TOTAL EPA 7471A	ND	0.016	mg/Kg (PPM)	MR	6/18/2019	EPA 7471

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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M16-2615
LOCATION: WALSTROM CHEBOYGAN
MI
SAMPLED BY: BRAD JEFFERS/MET
SAMPLE ID: S-13

GTA PROJECT NO: 061319-4
GTA SAMPLE NO: 6
DATE SAMPLED: 6/12/2019
TIME SAMPLED:
DATE RECEIVED: 6/13/2019
TIME RECEIVED: 1:00 PM
SAMPLE MATRIX: SOIL

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 6020A	2.6	0.37	mg/Kg (PPM)	MR/TR	6/17/2019	EPA 3050B
MERCURY TOTAL EPA 7471A	0.024	0.017	mg/Kg (PPM)	MR	6/18/2019	EPA 7471

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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M16-2615
LOCATION: WALSTROM CHEBOYGAN
MI
SAMPLED BY: BRAD JEFFERS/MET
SAMPLE ID: S-14

GTA PROJECT NO: 061319-4
GTA SAMPLE NO: 7
DATE SAMPLED: 6/12/2019
TIME SAMPLED:
DATE RECEIVED: 6/13/2019
TIME RECEIVED: 1:00 PM
SAMPLE MATRIX: SOIL

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 6020A	1.5	0.31	mg/Kg (PPM)	MR/TR	6/17/2019	EPA 3050B
MERCURY TOTAL EPA 7471A	0.019	0.013	mg/Kg (PPM)	MR	6/18/2019	EPA 7471

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COMPANY:	MACKINAC ENVIRONMENTAL	GTA PROJECT NO:	061319-4
PROJECT NO:	M16-2615	GTA SAMPLE NO:	8
LOCATION:	WALSTROM CHEBOYGAN	DATE SAMPLED:	6/12/2019
		TIME SAMPLED:	
		DATE RECEIVED:	6/13/2019
		TIME RECEIVED:	1:00 PM
SAMPLED BY:	MI BRAD JEFFERS/MET	SAMPLE MATRIX:	SOIL
SAMPLE ID:	S-15		

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 6020A	1.2	0.37	mg/Kg (PPM)	MR/TR	6/17/2019	EPA 3050B
MERCURY TOTAL EPA 7471A	0.026	0.015	mg/Kg (PPM)	MR	6/18/2019	EPA 7471

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COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M16-2615
LOCATION: WALSTROM CHEBOYGAN
MI
SAMPLED BY: BRAD JEFFERS/MET
SAMPLE ID: S-16

GTA PROJECT NO: 061319-4
GTA SAMPLE NO: 9
DATE SAMPLED: 6/12/2019
TIME SAMPLED:
DATE RECEIVED: 6/13/2019
TIME RECEIVED: 1:00 PM
SAMPLE MATRIX: SOIL

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 6020A	1.5	0.35	mg/Kg (PPM)	MR/TR	6/17/2019	EPA 3050B
MERCURY TOTAL EPA 7471A	0.029	0.017	mg/Kg (PPM)	MR	6/18/2019	EPA 7471

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COMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 061319-4

NAME:

SAMPLED BY: BRAD JEFFERS/MET

PROJECT NO: M16-2615

DATE SAMPLED: 6/12/2019

TIME SAMPLED:

LOCATION: WALSTROM CHEBOYGAN

SAMPLE MATRIX: SOIL

DATE RECEIVED: 6/13/2019

TIME RECEIVED: 1:00 PM

MI

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
SAMPLE ID: S-8	% MOISTURE EPA 3550C	18	0.050	% OF SAMPLE	AS	6/13/2019
SAMPLE ID: S-9	% MOISTURE EPA 3550C	20	0.050	% OF SAMPLE	AS	6/13/2019
SAMPLE ID: S-10	% MOISTURE EPA 3550C	28	0.050	% OF SAMPLE	AS	6/13/2019
SAMPLE ID: S-11	% MOISTURE EPA 3550C	20	0.050	% OF SAMPLE	AS	6/13/2019
SAMPLE ID: S-12	% MOISTURE EPA 3550C	21	0.050	% OF SAMPLE	AS	6/13/2019
SAMPLE ID: S-13	% MOISTURE EPA 3550C	24	0.050	% OF SAMPLE	AS	6/13/2019
SAMPLE ID: S-14	% MOISTURE EPA 3550C	23	0.050	% OF SAMPLE	AS	6/13/2019
SAMPLE ID: S-15	% MOISTURE EPA 3550C	20	0.050	% OF SAMPLE	AS	6/13/2019
SAMPLE ID: S-16	% MOISTURE EPA 3550C	21	0.050	% OF SAMPLE	AS	6/13/2019

CHAIN OF CUSTODY

PROJECT NUMBER <i>M16-2615</i>	SITE NAME/ADDRESS <i>W. 1st from Cheboygon</i>	COMPANY/NAME
SAMPLED BY <i>Brad Jeffers</i>	COMPANY <i>MET</i>	GTA PROJECT # <i>061319-54</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	5-8	6/12/19		soil	Arsenic + Hg
2	5-9				
3	5-10				
4	5-11				
5	5-12				
6	5-13				
7	5-14				
8	5-15				
9	5-16				

BILL TO:

MET
PO Box 485
St. Ignace, MI 49781

REPORT TO:

medesault.com

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

Brad Jeffers 6/12/19 7:40

Ang 6/13/19 1:00p

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