

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: OTWELL MAWBY, P.C.

Name:

ClientProj: 20-343

GTA ProjNo: 120820-6

Site Addr: KROUPA PROPERTY

Sampled By: ROBERT WINTERER/OMPC

Date Rec: 12/8/2020

Time Rec: 1:45 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	HA-25 @ 2'	12/8/2020	10:00 AM	SOIL
2	HA-26 @ 1'	12/8/2020	12:00 PM	SOIL
3	HA-27 @ 2'	12/8/2020	12:00 PM	SOIL
4	MW-4	12/8/2020	11:00 AM	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
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COMPANY: OTWELL MAWBY, P.C.

PROJECT NO: 20-343

LOCATION: KROUPA PROPERTY

MI

SAMPLED BY: ROBERT WINTERER/OMPC

SAMPLE ID: HA-25 @ 2'

GTA PROJECT NO: 120820-6

GTA SAMPLE NO: 1

DATE RECEIVED: 12/8/2020

TIME RECEIVED: 1:45 PM

DATE SAMPLED: 12/8/2020

TIME SAMPLED: 10:00 AM

SAMPLE MATRIX: SOIL

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
CHLORIDE EPA 300.0	ND	110	mg/Kg (PPM)	LV	12/10/2020
IRON TOTAL EPA 6020A	730	7.6	mg/Kg (PPM)	MR	12/10/2020
SULFATE EPA 300.0	ND	110	mg/Kg (PPM)	LV	12/10/2020

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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PROJECT NO: 20-343

LOCATION: KROUPA PROPERTY

SAMPLED BY: MI
ROBERT WINTERER/OMPC

SAMPLE MATRIX: SOIL

GTA PROJECT NO: 120820-6

GTA SAMPLE NO: 2

DATE SAMPLED: 12/8/2020

TIME SAMPLED: 12:00 PM

DATE RECEIVED: 12/8/2020

TIME RECEIVED: 1:45 PM

SAMPLE ID: HA-26 @ 1'

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	12/8/2020	12/9/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Methyl-t-Butyl Ether	ND	250					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					
1,2-Dibromoethane	ND	20					
1,2-Dichloroethane	ND	50					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED

LOD = LIMIT OF DETECTION

COMPANY: OTWELL MAWBY, P.C.
PROJECT NO: 20-343
LOCATION: KROUPA PROPERTY
MI
SAMPLED BY: ROBERT WINTERER/OMPC
SAMPLE MATRIX: SOIL

GTA PROJECT NO: 120820-6
GTA SAMPLE NO: 3
DATE SAMPLED: 12/8/2020
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 12/8/2020
TIME RECEIVED: 1:45 PM
SAMPLE ID: HA-27 @ 2'

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	12/8/2020	12/9/2020	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Methyl-t-Butyl Ether	ND	250					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					
1,2-Dibromoethane	ND	20					
1,2-Dichloroethane	ND	50					

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PROJECT NO: 20-343

LOCATION: KROUPA PROPERTY

SAMPLED BY: MI
ROBERT WINTERER/OMPCSAMPLE MATRIX: SOIL
SAMPLE ID: HA-26 @ 1'

GTA PROJECT NO: 120820-6

GTA SAMPLE NO: 2

DATE SAMPLED: 12/8/2020

TIME SAMPLED: 12:00 PM

DATE RECEIVED: 12/8/2020

TIME RECEIVED: 1:45 PM

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	12/13/2020	12/14/2020	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	ND	330					
Benzo(k)fluoranthene	ND	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	ND	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	ND	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	ND	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	ND	330					

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PROJECT NO: 20-343

LOCATION: KROUPA PROPERTY

SAMPLED BY: MI
ROBERT WINTERER/OMPCSAMPLE MATRIX: SOIL
SAMPLE ID: HA-27 @ 2'

GTA PROJECT NO: 120820-6

GTA SAMPLE NO: 3

DATE SAMPLED: 12/8/2020

TIME SAMPLED: 12:00 PM

DATE RECEIVED: 12/8/2020

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PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	330	ug/Kg (PPB)	KC/TR	12/13/2020	12/14/2020	EPA 3550B
Acenaphthylene	ND	330					
Anthracene	ND	330					
Benzo(a)anthracene	ND	330					
Benzo(b)fluoranthene	ND	330					
Benzo(k)fluoranthene	ND	330					
Benzo(a)pyrene	ND	330					
Benzo(ghi)perylene	ND	330					
2-Chloronaphthalene	ND	330					
Chrysene	ND	330					
Dibenz(ah)anthracene	ND	330					
Fluoranthene	ND	330					
Fluorene	ND	330					
Indeno(123-cd)pyrene	ND	330					
2-Methylnaphthalene	ND	330					
Naphthalene	ND	330					
Phenanthrene	ND	330					
Pyrene	ND	330					

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GTA PROJECT NO: 120820-

PROJECT NO: 20-343

GTA SAMPLE NO: 2

LOCATION: KROUPA PROPERTY

DATE SAMPLED: 12/8/2020

TIME SAMPLED: 12:00 PM

SAMPLED BY: MI
ROBERT WINTERER/OMPC

DATE RECEIVED: 12/8/2020

TIME RECEIVED: 1:45 PM

SAMPLE MATRIX: SOIL

METALS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
SAMPLE ID: HA-26 @ 1'							
2	LEAD TOTAL EPA 6020A	11	0.54	mg/Kg (PPM)	MR	12/10/2020	EPA 3050B

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GTA PROJECT NO: 120820-

PROJECT NO: 20-343

GTA SAMPLE NO: 3

LOCATION: KROUPA PROPERTY

DATE SAMPLED: 12/8/2020

TIME SAMPLED: 12:00 PM

SAMPLED BY: MI
ROBERT WINTERER/OMPC

DATE RECEIVED: 12/8/2020

TIME RECEIVED: 1:45 PM

SAMPLE MATRIX: SOIL

METALS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
SAMPLE ID: HA-27 @ 2'							
3	LEAD TOTAL EPA 6020A	19	0.64	mg/Kg (PPM)	MR	12/10/2020	EPA 3050B

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LOCATION: KROUPA PROPERTY

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SAMPLED BY: ROBERT WINTERER/OMPC

SAMPLE ID: MW-4

GTA PROJECT NO: 120820-6

GTA SAMPLE NO: 4

DATE RECEIVED: 12/8/2020

TIME RECEIVED: 1:45 PM

DATE SAMPLED: 12/8/2020

TIME SAMPLED: 11:00 AM

SAMPLE MATRIX: WATER

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
CHEMICAL OXYGEN DEMAND SM5220D	40	5.0	mg/L (PPM)	LV	12/11/2020
CHLORIDE EPA 300.0	29	10	mg/L (PPM)	LV	12/8/2020
NITRATE-N EPA 300.0	6.5	0.10	mg/L (PPM)	LV	12/8/2020
NITRITE-N EPA 300.0	ND	0.10	mg/L (PPM)	LV	12/8/2020
SULFATE EPA 300.0	160	10	mg/L (PPM)	LV	12/8/2020

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TIME SAMPLED: 10:00 AM

SAMPLE MATRIX: SOIL

DATE RECEIVED: 12/8/2020

TIME RECEIVED: 1:45 PM

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: HA-25 @ 2'

% MOISTURE EPA 3550C

SAMPLE ID: HA-26 @ 1'

% MOISTURE EPA 3550C

SAMPLE ID: HA-27 @ 2'

% MOISTURE EPA 3550C

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
6.2	0.050	% OF SAMPLE	AS	12/8/2020
7.4	0.050	% OF SAMPLE	AS	12/8/2020
9.4	0.050	% OF SAMPLE	AS	12/8/2020

