



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: M21-3435
GTA ProjNo: 061021-2

Site Addr: INDUSTRIAL PARK PARCEL #10
Sampled By: MJR/MET
Date Rec: 6/10/2021
Time Rec: 10:50 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SB-1 @ 2'	6/8/2021		SOIL
2	SB-2 @ 0.5'	6/8/2021		SOIL
3	SB-3 @ 0.5'	6/8/2021		SOIL
4	SB-1	6/8/2021		WATER
5	SB-2	6/8/2021		WATER
6	SB-3	6/8/2021		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: MACKINAC ENVIRONMENTAL
 PROJECT NO: M21-3435
 LOCATION: INDUSTRIAL PARK PARCEL #10

GTA PROJECT NO: 061021- - 1
 DATE SAMPLED: 6/8/2021
 TIME SAMPLED:
 DATE RECEIVED: 6/10/2021
 TIME RECEIVED: 10:50 AM
 SAMPLED BY:: MJR/MET
 SAMPLE MATRIX: SOIL

SAMPLE ID: MI
 SB-1 @ 2'

BASE NEUTRAL ACID EXTRACTABLES EPA 8270D

Units= ug/Kg (PPB) Analyst ALS Date 6/14/2021 Date Completed= 6/22/2021
Prep Method= EPA 3550B

<u>Analyte</u>	<u>Concentration</u>	<u>LOD</u>	<u>Analyte</u>	<u>Concentration</u>	<u>LOD</u>
Acenaphthene	ND	330	4,6-Dinitro-2-methylphenol	ND	830
Acenaphthylene	ND	330	2,4-Dinitrophenol	ND	1700
Aniline	ND	1700	2,4-Dinitrotoluene	ND	330
Anthracene	ND	330	2,6-Dinitrotoluene	ND	330
Benzidine	ND	1000	1,2-Diphenylhydrazine	ND	330
Benzo(a)anthracene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Benzo(b)fluoranthene	ND	330	Fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330	Fluorene	ND	330
Benzo(a)pyrene	ND	330	Hexachlorobenzene	ND	330
Benzoic Acid	ND	3300	Hexachlorobutadiene	ND	50
Benzo(ghi)perylene	ND	330	Hexachloroethane	ND	300
Benzyl Alcohol	ND	1300	Hexachlorocyclopentadiene	ND	330
4-Bromophenylphenyl	ND	330	Indeno(123-cd)pyrene	ND	330
Butylbenzyl phthalate	ND	330	Isophorone	ND	330
di-n-Butyl phthalate	ND	330	2-Methylnaphthalene	ND	330
Carbazole	ND	330	2-Methylphenol	ND	330
4-Chloroaniline	ND	1700	4-methylphenol	ND	330
bis(2-Chloroethoxy)methane	ND	330	Naphthalene	ND	330
bis(2-Chloroethyl)ether	ND	100	2-Nitroaniline	ND	1700
bis(2-Chloroisopropyl)ether	ND	330	3-Nitroaniline	ND	1700
4-Chloro-3-methylphenol	ND	330	4-Nitroaniline	ND	1700
2-Chloronaphthalene	ND	330	Nitrobenzene	ND	200
2-Chlorophenol	ND	330	2-Nitrophenol	ND	330
4-Chlorophenylphenyl	ND	330	4-Nitrophenol	ND	1700
Chrysene	ND	330	N-Nitrosodiphenylamine	ND	330
Dibenz(ah)anthracene	ND	330	N-Nitroso-di-n-propylamine	ND	330
Dibenzofuran	ND	330	di-n-Octyl phthalate	ND	330
1,2-Dichlorobenzene	ND	330	Pentachlorophenol	ND	20
1,3-Dichlorobenzene	ND	330	Phenanthrene	ND	330
1,4-Dichlorobenzene	ND	330	Phenol	ND	330
3,3'-Dichlorobenzidine	ND	2000	Pyrene	ND	330
2,4-Dichlorophenol	ND	330	1,2,4-Trichlorobenzene	ND	330
Diethyl phthalate	ND	330	2,4,5-Trichlorophenol	ND	330
2,4-Dimethylphenol	ND	330	2,4,6-Trichlorophenol	ND	330
Dimethyl phthalate	ND	330			

ND = NOT DETECTED
 LOD = LIMIT OF DETECTION



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COMPANY: MACKINAC ENVIRONMENTAL
 PROJECT NO: M21-3435
 LOCATION: INDUSTRIAL PARK PARCEL #10

GTA PROJECT NO: 061021- - 2
 DATE SAMPLED: 6/8/2021
 TIME SAMPLED:
 DATE RECEIVED: 6/10/2021
 TIME RECEIVED: 10:50 AM
 SAMPLED BY:: MJR/MET
 SAMPLE MATRIX: SOIL

SAMPLE ID: MI
 SB-2 @ 0.5'

BASE NEUTRAL ACID EXTRACTABLES EPA 8270D

Units= ug/Kg (PPB) Analyst ALS Date 6/14/2021 Date Completed= 6/22/2021
Prep Method= EPA 3550B

<u>Analyte</u>	<u>Concentration</u>	<u>LOD</u>	<u>Analyte</u>	<u>Concentration</u>	<u>LOD</u>
Acenaphthene	ND	330	4,6-Dinitro-2-methylphenol	ND	830
Acenaphthylene	ND	330	2,4-Dinitrophenol	ND	1700
Aniline	ND	1700	2,4-Dinitrotoluene	ND	330
Anthracene	ND	330	2,6-Dinitrotoluene	ND	330
Benzidine	ND	1000	1,2-Diphenylhydrazine	ND	330
Benzo(a)anthracene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Benzo(b)fluoranthene	ND	330	Fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330	Fluorene	ND	330
Benzo(a)pyrene	ND	330	Hexachlorobenzene	ND	330
Benzoic Acid	ND	3300	Hexachlorobutadiene	ND	50
Benzo(ghi)perylene	ND	330	Hexachloroethane	ND	300
Benzyl Alcohol	ND	1300	Hexachlorocyclopentadiene	ND	330
4-Bromophenylphenyl	ND	330	Indeno(123-cd)pyrene	ND	330
Butylbenzyl phthalate	ND	330	Isophorone	ND	330
di-n-Butyl phthalate	ND	330	2-Methylnaphthalene	ND	330
Carbazole	ND	330	2-Methylphenol	ND	330
4-Chloroaniline	ND	1700	4-methylphenol	ND	330
bis(2-Chloroethoxy)methane	ND	330	Naphthalene	ND	330
bis(2-Chloroethyl)ether	ND	100	2-Nitroaniline	ND	1700
bis(2-Chloroisopropyl)ether	ND	330	3-Nitroaniline	ND	1700
4-Chloro-3-methylphenol	ND	330	4-Nitroaniline	ND	1700
2-Chloronaphthalene	ND	330	Nitrobenzene	ND	200
2-Chlorophenol	ND	330	2-Nitrophenol	ND	330
4-Chlorophenylphenyl	ND	330	4-Nitrophenol	ND	1700
Chrysene	ND	330	N-Nitrosodiphenylamine	ND	330
Dibenz(ah)anthracene	ND	330	N-Nitroso-di-n-propylamine	ND	330
Dibenzofuran	ND	330	di-n-Octyl phthalate	ND	330
1,2-Dichlorobenzene	ND	330	Pentachlorophenol	ND	20
1,3-Dichlorobenzene	ND	330	Phenanthrene	ND	330
1,4-Dichlorobenzene	ND	330	Phenol	ND	330
3,3'-Dichlorobenzidine	ND	2000	Pyrene	ND	330
2,4-Dichlorophenol	ND	330	1,2,4-Trichlorobenzene	ND	330
Diethyl phthalate	ND	330	2,4,5-Trichlorophenol	ND	330
2,4-Dimethylphenol	ND	330	2,4,6-Trichlorophenol	ND	330
Dimethyl phthalate	ND	330			

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COMPANY: MACKINAC ENVIRONMENTAL
 PROJECT NO: M21-3435
 LOCATION: INDUSTRIAL PARK PARCEL #10

GTA PROJECT NO: 061021- - 3
 DATE SAMPLED: 6/8/2021
 TIME SAMPLED:
 DATE RECEIVED: 6/10/2021
 TIME RECEIVED: 10:50 AM
 SAMPLED BY:: MJR/MET
 SAMPLE MATRIX: SOIL

SAMPLE ID: MI
 SB-3 @ 0.5'

BASE NEUTRAL ACID EXTRACTABLES EPA 8270D

Units= ug/Kg (PPB) Analyst ALS Date 6/14/2021 Date Completed= 6/22/2021
Prep Method= EPA 3550B

<u>Analyte</u>	<u>Concentration</u>	<u>LOD</u>	<u>Analyte</u>	<u>Concentration</u>	<u>LOD</u>
Acenaphthene	ND	330	4,6-Dinitro-2-methylphenol	ND	830
Acenaphthylene	ND	330	2,4-Dinitrophenol	ND	1700
Aniline	ND	1700	2,4-Dinitrotoluene	ND	330
Anthracene	ND	330	2,6-Dinitrotoluene	ND	330
Benzidine	ND	1000	1,2-Diphenylhydrazine	ND	330
Benzo(a)anthracene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Benzo(b)fluoranthene	ND	330	Fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330	Fluorene	ND	330
Benzo(a)pyrene	ND	330	Hexachlorobenzene	ND	330
Benzoic Acid	ND	3300	Hexachlorobutadiene	ND	50
Benzo(ghi)perylene	ND	330	Hexachloroethane	ND	300
Benzyl Alcohol	ND	1300	Hexachlorocyclopentadiene	ND	330
4-Bromophenylphenyl	ND	330	Indeno(123-cd)pyrene	ND	330
Butylbenzyl phthalate	ND	330	Isophorone	ND	330
di-n-Butyl phthalate	ND	330	2-Methylnaphthalene	ND	330
Carbazole	ND	330	2-Methylphenol	ND	330
4-Chloroaniline	ND	1700	4-methylphenol	ND	330
bis(2-Chloroethoxy)methane	ND	330	Naphthalene	ND	330
bis(2-Chloroethyl)ether	ND	100	2-Nitroaniline	ND	1700
bis(2-Chloroisopropyl)ether	ND	330	3-Nitroaniline	ND	1700
4-Chloro-3-methylphenol	ND	330	4-Nitroaniline	ND	1700
2-Chloronaphthalene	ND	330	Nitrobenzene	ND	200
2-Chlorophenol	ND	330	2-Nitrophenol	ND	330
4-Chlorophenylphenyl	ND	330	4-Nitrophenol	ND	1700
Chrysene	ND	330	N-Nitrosodiphenylamine	ND	330
Dibenz(ah)anthracene	ND	330	N-Nitroso-di-n-propylamine	ND	330
Dibenzofuran	ND	330	di-n-Octyl phthalate	ND	330
1,2-Dichlorobenzene	ND	330	Pentachlorophenol	ND	20
1,3-Dichlorobenzene	ND	330	Phenanthrene	ND	330
1,4-Dichlorobenzene	ND	330	Phenol	ND	330
3,3'-Dichlorobenzidine	ND	2000	Pyrene	ND	330
2,4-Dichlorophenol	ND	330	1,2,4-Trichlorobenzene	ND	330
Diethyl phthalate	ND	330	2,4,5-Trichlorophenol	ND	330
2,4-Dimethylphenol	ND	330	2,4,6-Trichlorophenol	ND	330
Dimethyl phthalate	ND	330			

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COMPANY: MACKINAC ENVIRONMENTAL
 PROJECT NO: M21-3435
 LOCATION: INDUSTRIAL PARK PARCEL #10

GTA PROJECT NO: 061021-2
 GTA SAMPLE NO: 6

DATE SAMPLED: 6/8/2021
 TIME SAMPLED:

SAMPLED BY: MI
 MJR/MET

DATE RECEIVED: 6/10/2021
 TIME RECEIVED: 10:50 AM

SAMPLE MATRIX: WATER
 SAMPLE ID: SB-3

PNA EPA 8270D (SIM)

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	5.0	ug/L (PPB)	KC/TR	6/15/2021	6/21/2021	EPA 3511
Acenaphthylene	ND	5.0					
Anthracene	ND	5.0					
Benzo(a)anthracene	ND	1.0					
Benzo(b)fluoranthene	ND	1.0					
Benzo(k)fluoranthene	ND	1.0					
Benzo(a)pyrene	ND	1.0					
Benzo(ghi)perylene	ND	2.0					
2-Chloronaphthalene	ND	5.0					
Chrysene	ND	1.0					
Dibenz(ah)anthracene	ND	2.0					
Fluoranthene	ND	1.0					
Fluorene	ND	5.0					
Indeno(123-cd)pyrene	ND	2.0					
2-Methylnaphthalene	ND	5.0					
Naphthalene	ND	5.0					
Phenanthrene	ND	2.0					
Pyrene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY:	MACKINAC ENVIRONMENTAL	GTA PROJECT NO:	061021-2
PROJECT NO:	M21-3435	GTA SAMPLE NO:	1
LOCATION:	INDUSTRIAL PARK PARCEL #10	DATE SAMPLED:	6/8/2021
		TIME SAMPLED:	
		DATE RECEIVED:	6/10/2021
		TIME RECEIVED:	10:50 AM
SAMPLED BY:	MI MJR/MET	SAMPLE MATRIX:	SOIL
SAMPLE ID:	SB-1 @ 2'		

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	ND	0.40	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
BARIUM TOTAL EPA 6020A	110	0.40	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
CADMIUM TOTAL EPA 6020A	ND	0.40	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
CHROMIUM TOTAL EPA 6020A	18	0.40	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
COPPER TOTAL EPA 6020A	14	0.40	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
LEAD TOTAL EPA 6020A	14	0.40	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
MERCURY TOTAL EPA 7471B	ND	0.019	mg/Kg (PPM)	MR	6/22/2021	EPA 7471
SELENIUM TOTAL EPA 6020A	ND	0.40	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
SILVER TOTAL EPA 6020A	ND	0.40	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
ZINC TOTAL EPA 6020A	33	4.0	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION

DISS = DISSOLVED



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COMPANY:	MACKINAC ENVIRONMENTAL	GTA PROJECT NO:	061021-2
PROJECT NO:	M21-3435	GTA SAMPLE NO:	2
LOCATION:	INDUSTRIAL PARK PARCEL #10	DATE SAMPLED:	6/8/2021
		TIME SAMPLED:	
		DATE RECEIVED:	6/10/2021
		TIME RECEIVED:	10:50 AM
SAMPLED BY:	MI MJR/MET	SAMPLE MATRIX:	SOIL
SAMPLE ID:	SB-2 @ 0.5'		

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 6020A	ND	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
BARIUM TOTAL EPA 6020A	14	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
CADMIUM TOTAL EPA 6020A	ND	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
CHROMIUM TOTAL EPA 6020A	5.2	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
COPPER TOTAL EPA 6020A	11	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
LEAD TOTAL EPA 6020A	3.8	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
MERCURY TOTAL EPA 7471B	ND	0.021	mg/Kg (PPM)	MR	6/22/2021	EPA 7471
SELENIUM TOTAL EPA 6020A	ND	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
SILVER TOTAL EPA 6020A	ND	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
ZINC TOTAL EPA 6020A	25	3.6	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B

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COMPANY:	MACKINAC ENVIRONMENTAL	GTA PROJECT NO:	061021-2
PROJECT NO:	M21-3435	GTA SAMPLE NO:	3
LOCATION:	INDUSTRIAL PARK PARCEL #10	DATE SAMPLED:	6/8/2021
		TIME SAMPLED:	
		DATE RECEIVED:	6/10/2021
		TIME RECEIVED:	10:50 AM
SAMPLED BY:	MI MJR/MET	SAMPLE MATRIX:	SOIL
SAMPLE ID:	SB-3 @ 0.5'		

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 6020A	ND	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
BARIUM TOTAL EPA 6020A	41	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
CADMIUM TOTAL EPA 6020A	ND	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
CHROMIUM TOTAL EPA 6020A	13	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
COPPER TOTAL EPA 6020A	9.5	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
LEAD TOTAL EPA 6020A	5.2	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
MERCURY TOTAL EPA 7471B	ND	0.019	mg/Kg (PPM)	MR	6/22/2021	EPA 7471
SELENIUM TOTAL EPA 6020A	ND	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
SILVER TOTAL EPA 6020A	ND	0.36	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B
ZINC TOTAL EPA 6020A	27	3.6	mg/Kg (PPM)	MR	6/24/2021	EPA 3050B

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COMPANY:	MACKINAC ENVIRONMENTAL	GTA PROJECT NO:	061021-2
PROJECT NO:	M21-3435	GTA SAMPLE NO:	4
LOCATION:	INDUSTRIAL PARK PARCEL #10	DATE SAMPLED:	6/8/2021
		TIME SAMPLED:	
		DATE RECEIVED:	6/10/2021
		TIME RECEIVED:	10:50 AM
SAMPLED BY:	MI MJR/MET	SAMPLE MATRIX:	WATER
SAMPLE ID:	SB-1		

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	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
BARIUM TOTAL EPA 6020A	0.10	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
CADMIUM TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
CHROMIUM TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
COPPER TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
LEAD TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
MERCURY TOTAL EPA 7470A	ND	0.00020	mg/L (PPM)	MR	6/22/2021	EPA 7470
SELENIUM TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
SILVER TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
ZINC TOTAL EPA 6020A	ND	0.010	mg/L (PPM)	MR	6/24/2021	EPA 3005A

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COMPANY: MACKINAC ENVIRONMENTAL
 PROJECT NO: M21-3435
 LOCATION: INDUSTRIAL PARK PARCEL #10
 MI
 SAMPLED BY: MJR/MET
 SAMPLE ID: SB-2

GTA PROJECT NO: 061021-2
 GTA SAMPLE NO: 5
 DATE SAMPLED: 6/8/2021
 TIME SAMPLED:
 DATE RECEIVED: 6/10/2021
 TIME RECEIVED: 10:50 AM
 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>
ARSENIC TOTAL EPA 6020A	0.0014	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
BARIUM TOTAL EPA 6020A	0.036	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
CADMIUM TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
CHROMIUM TOTAL EPA 6020A	0.0035	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
COPPER TOTAL EPA 6020A	0.0028	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
LEAD TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
MERCURY TOTAL EPA 7470A	ND	0.00020	mg/L (PPM)	MR	6/22/2021	EPA 7470
SELENIUM TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
SILVER TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
ZINC TOTAL EPA 6020A	0.020	0.010	mg/L (PPM)	MR	6/24/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION

DISS = DISSOLVED



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: MACKINAC ENVIRONMENTAL
 PROJECT NO: M21-3435
 LOCATION: INDUSTRIAL PARK PARCEL #10
 MI
 SAMPLED BY: MJR/MET
 SAMPLE ID: SB-3

GTA PROJECT NO: 061021-2
 GTA SAMPLE NO: 6
 DATE SAMPLED: 6/8/2021
 TIME SAMPLED:
 DATE RECEIVED: 6/10/2021
 TIME RECEIVED: 10:50 AM
 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>
ARSENIC TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
BARIUM TOTAL EPA 6020A	0.031	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
CADMIUM TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
CHROMIUM TOTAL EPA 6020A	0.012	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
COPPER TOTAL EPA 6020A	0.0053	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
LEAD TOTAL EPA 6020A	0.0074	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
MERCURY TOTAL EPA 7470A	ND	0.00020	mg/L (PPM)	MR	6/22/2021	EPA 7470
SELENIUM TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
SILVER TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	6/24/2021	EPA 3005A
ZINC TOTAL EPA 6020A	0.011	0.010	mg/L (PPM)	MR	6/24/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION

DISS = DISSOLVED



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COMPANY: MACKINAC ENVIRONMENTAL

NAME:
PROJECT NO: M21-3435

LOCATION: INDUSTRIAL PARK PARCEL #10

MI

GTA PROJECT NO: 061021-
SAMPLED BY: MJR/MET

DATE SAMPLED: 6/8/2021
TIME SAMPLED:

SAMPLE MATRIX: SOIL

DATE RECEIVED: 6/10/2021
TIME RECEIVED: 10:50 AM

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
	SAMPLE ID: SB-1 @ 2'					
	% MOISTURE EPA 3550C	18	0.050	% OF SAMPLE	AS	6/10/2021
	SAMPLE ID: SB-2 @ 0.5'					
	% MOISTURE EPA 3550C	28	0.050	% OF SAMPLE	AS	6/10/2021
	SAMPLE ID: SB-3 @ 0.5'					
	% MOISTURE EPA 3550C	22	0.050	% OF SAMPLE	AS	6/10/2021

CHAIN OF CUSTODY

PROJECT NUMBER M21-3435	SITE NAME/ADDRESS Industrial Peck Parcel #10	COMPANY/NAME MET
SAMPLED BY MJR	COMPANY MET	GTA PROJECT # 061021-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	SB-1 @ 2'	6-8-21		Soil	SVOC + MI 10 Metals
2	SB-2 @ 0.5'	↓		↓	↓
3	SB-3 @ 0.5'	↓		↓	↓
4	SB-1	↓		GW	NO sample
5	SB-2	↓		↓	NO sample
6	SB-3	↓		↓	PNA ↓
					Shipped on ice

BILL TO:
MET

REPORT TO:
MET

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>[Signature]</i>	6-9-21 1500	<i>[Signature]</i>	6/10/21 1050 rec 40° on ice

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