

**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: M19-3176
GTA ProjNo: 122419-4

Site Addr: THIRD STREET PARKING LOT

Sampled By: MET
Date Rec: 12/24/2019
Time Rec: 11:45 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	S-1	12/23/2019		WATER
2	S-2	12/23/2019		WATER
3	S-3	12/23/2019		WATER
4	S-4	12/23/2019		WATER
5	S-1 @ 3-4'	12/23/2019		SOIL
6	S-2 @ 3-4'	12/23/2019		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 Chase

Kirk L. Chase/Chemist
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830 Robinwood Court
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COMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 122419-4

PROJECT NO: M19-3176

GTA SAMPLE NO: 1

LOCATION: THIRD STREET PARKING LOT

DATE SAMPLED: 12/23/2019

TIME SAMPLED:

DATE RECEIVED: 12/24/2019

TIME RECEIVED: 11:45 AM

SAMPLED BY: MET

SAMPLE MATRIX: WATER

SAMPLE ID: S-1

EPA 8260B VOLATILE ORGANICS

Units= ug/L (PPB)

Analyst= MR

Date

Date Completed= 12/24/2019

Prep

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
CHLORO BENZENE	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: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 122419-4

PROJECT NO: M19-3176

GTA SAMPLE NO: 2

LOCATION: THIRD STREET PARKING LOT

DATE SAMPLED: 12/23/2019

TIME SAMPLED:

DATE RECEIVED: 12/24/2019

TIME RECEIVED: 11:45 AM

SAMPLED BY: MET

SAMPLE MATRIX: WATER

SAMPLE ID: S-2

EPA 8260B VOLATILE ORGANICS

Units= ug/L (PPB)

Analyst= MR

Date

Date Completed= 12/24/2019

Prep

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	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: MACKINAC ENVIRONMENTAL
PROJECT NO: M19-3176
LOCATION: THIRD STREET PARKING LOT

GTA PROJECT NO: 122419-4
GTA SAMPLE NO: 3

DATE SAMPLED: 12/23/2019
TIME SAMPLED:

DATE RECEIVED: 12/24/2019
TIME RECEIVED: 11:45 AM

SAMPLED BY: MET

SAMPLE MATRIX: WATER

SAMPLE ID: S-3

EPA 8260B VOLATILE ORGANICS

Units= ug/L (PPB)

Analyst= MR

Date

Date Completed= 12/24/2019

Prep

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	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: MACKINAC ENVIRONMENTAL
PROJECT NO: M19-3176
LOCATION: THIRD STREET PARKING LOT

GTA PROJECT NO: 122419-4
GTA SAMPLE NO: 4

DATE SAMPLED: 12/23/2019
TIME SAMPLED:
DATE RECEIVED: 12/24/2019
TIME RECEIVED: 11:45 AM

SAMPLED BY: MET

SAMPLE MATRIX: WATER

SAMPLE ID: S-4

EPA 8260B VOLATILE ORGANICS

Units= ug/L (PPB)

Analyst= MR

Date

Date Completed= 12/24/2019

Prep

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	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: MACKINAC ENVIRONMENTAL
PROJECT NO: M19-3176
LOCATION: THIRD STREET PARKING LOT

GTA PROJECT NO: 122419-4
GTA SAMPLE NO: 1

DATE SAMPLED: 12/23/2019
TIME SAMPLED:

SAMPLED BY: MI
MET

DATE RECEIVED: 12/24/2019
TIME RECEIVED: 11:45 AM

SAMPLE MATRIX: WATER
SAMPLE ID: S-1

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	5.0	ug/L (PPB)	KC/MR	12/26/2019	12/27/2019	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					
Phenanthrene	ND	2.0					
Pyrene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED, RESULT IS <LOD.
LOD = LIMIT OF DETECTION.

COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M19-3176
LOCATION: THIRD STREET PARKING LOT

GTA PROJECT NO: 122419-4
GTA SAMPLE NO: 2

DATE SAMPLED: 12/23/2019
TIME SAMPLED:

SAMPLED BY: MI
MET

DATE RECEIVED: 12/24/2019
TIME RECEIVED: 11:45 AM

SAMPLE MATRIX: WATER
SAMPLE ID: S-2

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	5.0	ug/L (PPB)	KC/MR	12/26/2019	12/27/2019	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					
Phenanthrene	ND	2.0					
Pyrene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED, RESULT IS <LOD.
LOD = LIMIT OF DETECTION.

COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M19-3176
LOCATION: THIRD STREET PARKING LOT

GTA PROJECT NO: 122419-4
GTA SAMPLE NO: 3

DATE SAMPLED: 12/23/2019
TIME SAMPLED:

SAMPLED BY: MI
MET

DATE RECEIVED: 12/24/2019
TIME RECEIVED: 11:45 AM

SAMPLE MATRIX: WATER
SAMPLE ID: S-3

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	5.0	ug/L (PPB)	KC/MR	12/26/2019	12/27/2019	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					
Phenanthrene	ND	2.0					
Pyrene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED, RESULT IS <LOD.
LOD = LIMIT OF DETECTION.

COMPANY: MACKINAC ENVIRONMENTAL
PROJECT NO: M19-3176
LOCATION: THIRD STREET PARKING LOT

GTA PROJECT NO: 122419-4
GTA SAMPLE NO: 4

DATE SAMPLED: 12/23/2019
TIME SAMPLED:

SAMPLED BY: MI
MET

DATE RECEIVED: 12/24/2019
TIME RECEIVED: 11:45 AM

SAMPLE MATRIX: WATER
SAMPLE ID: S-4

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	5.0	ug/L (PPB)	KC/MR	12/26/2019	12/27/2019	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					
Phenanthrene	ND	2.0					
Pyrene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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LOD = LIMIT OF DETECTION.

**INDEPENDENT TESTING LAB**

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3176

LOCATION: THIRD STREET PARKING LOT

SAMPLED BY: MI
MET

SAMPLE ID: S-1

GTA PROJECT NO: 122419-4

GTA SAMPLE NO: 1

DATE SAMPLED: 12/23/2019

TIME SAMPLED:

DATE RECEIVED: 12/24/2019

TIME RECEIVED: 11:45 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 DISS EPA 6020A	0.0012	0.0010	mg/L (PPM)	MR	12/30/2019	EPA 3005A
BARIUM DISS EPA 6020A	0.030	0.0010	mg/L (PPM)	MR	12/30/2019	EPA 3005A
CADMIUM DISS EPA 6020A	ND	0.0010	mg/L (PPM)	MR	12/30/2019	EPA 3005A
CHROMIUM DISS EPA 6020A	0.012	0.0010	mg/L (PPM)	MR	12/30/2019	EPA 3005A
LEAD DISS EPA 6020A	ND	0.0010	mg/L (PPM)	MR	12/30/2019	EPA 3005A
MERCURY DISS EPA 7470A	ND	0.00020	mg/L (PPM)	MR	12/26/2019	EPA 7470
SELENIUM DISS EPA 6020A	0.0022	0.0010	mg/L (PPM)	MR	12/30/2019	EPA 3005A
ZINC DISS EPA 6020A	ND	0.010	mg/L (PPM)	MR	12/30/2019	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3176

LOCATION: THIRD STREET PARKING LOT

SAMPLED BY: MI
MET

SAMPLE ID: S-2

GTA PROJECT NO: 122419-4

GTA SAMPLE NO: 2

DATE SAMPLED: 12/23/2019

TIME SAMPLED:

DATE RECEIVED: 12/24/2019

TIME RECEIVED: 11:45 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 DISS EPA 6020A	ND	0.0010	mg/L (PPM)	MR	12/30/2019	EPA 3005A
BARIUM DISS EPA 6020A	0.035	0.0010	mg/L (PPM)	MR	12/30/2019	EPA 3005A
CADMIUM DISS EPA 6020A	ND	0.0010	mg/L (PPM)	MR	12/30/2019	EPA 3005A
CHROMIUM DISS EPA 6020A	0.0094	0.0010	mg/L (PPM)	MR	12/30/2019	EPA 3005A
LEAD DISS EPA 6020A	ND	0.0010	mg/L (PPM)	MR	12/30/2019	EPA 3005A
MERCURY DISS EPA 7470A	ND	0.00020	mg/L (PPM)	MR	12/26/2019	EPA 7470
SELENIUM DISS EPA 6020A	0.0012	0.0010	mg/L (PPM)	MR	12/30/2019	EPA 3005A
ZINC DISS EPA 6020A	ND	0.010	mg/L (PPM)	MR	12/30/2019	EPA 3005A

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COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3176

LOCATION: THIRD STREET PARKING LOT

SAMPLED BY: MI
MET

SAMPLE ID: S-1 @ 3-4'

GTA PROJECT NO: 122419-4

GTA SAMPLE NO: 5

DATE SAMPLED: 12/23/2019

TIME SAMPLED:

DATE RECEIVED: 12/24/2019

TIME RECEIVED: 11:45 AM

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	0.84	0.35	mg/Kg (PPM)	MR	12/30/2019	EPA 3050B
BARIUM TOTAL EPA 6020A	43	0.35	mg/Kg (PPM)	MR	12/30/2019	EPA 3050B
CADMIUM TOTAL EPA 6020A	ND	0.35	mg/Kg (PPM)	MR	12/30/2019	EPA 3050B
CHROMIUM TOTAL EPA 6020A	39	0.35	mg/Kg (PPM)	MR	12/30/2019	EPA 3050B
LEAD TOTAL EPA 6020A	110	0.35	mg/Kg (PPM)	MR	12/30/2019	EPA 3050B
MERCURY TOTAL EPA 7471B	0.40	0.018	mg/Kg (PPM)	MR	12/26/2019	EPA 7471
SELENIUM TOTAL EPA 6020A	0.46	0.35	mg/Kg (PPM)	MR	12/30/2019	EPA 3050B
ZINC TOTAL EPA 6020A	94	3.5	mg/L (PPM)	MR	12/30/2019	EPA 3050B

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LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3176

LOCATION: THIRD STREET PARKING LOT

SAMPLED BY: MI
MET

SAMPLE ID: S-2 @ 3-4'

GTA PROJECT NO: 122419-4

GTA SAMPLE NO: 6

DATE SAMPLED: 12/23/2019

TIME SAMPLED:

DATE RECEIVED: 12/24/2019

TIME RECEIVED: 11:45 AM

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	0.75	0.34	mg/Kg (PPM)	MR	12/30/2019	EPA 3050B
BARIUM TOTAL EPA 6020A	52	0.34	mg/Kg (PPM)	MR	12/30/2019	EPA 3050B
CADMIUM TOTAL EPA 6020A	ND	0.34	mg/Kg (PPM)	MR	12/30/2019	EPA 3050B
CHROMIUM TOTAL EPA 6020A	30	0.34	mg/Kg (PPM)	MR	12/30/2019	EPA 3050B
LEAD TOTAL EPA 6020A	470	0.34	mg/Kg (PPM)	MR	12/30/2019	EPA 3050B
MERCURY TOTAL EPA 7471B	ND	0.013	mg/Kg (PPM)	MR	12/26/2019	EPA 7471
SELENIUM TOTAL EPA 6020A	ND	0.34	mg/Kg (PPM)	MR	12/30/2019	EPA 3050B
ZINC TOTAL EPA 6020A	96	3.4	mg/L (PPM)	MR	12/30/2019	EPA 3050B

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COMPANY: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 122419-4

NAME:

SAMPLED BY: MET

PROJECT NO: M19-3176

DATE SAMPLED: 12/23/2019

TIME SAMPLED:

LOCATION: THIRD STREET PARKING LOT

SAMPLE MATRIX: SOIL

DATE RECEIVED: 12/24/2019

TIME RECEIVED: 11:45 AM

MI

MOISTURE**No: Analysis****Concentration****LOD****Units****Analyst****Date
Complete**

SAMPLE ID: S-1 @ 3-4'

% MOISTURE EPA 3550C

16

0.050

% OF SAMPLE

AS

12/26/2019

SAMPLE ID: S-2 @ 3-4'

% MOISTURE EPA 3550C

3.4

0.050

% OF SAMPLE

AS

12/26/2019

INDEPENDENT TESTING LAB

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PH: 231-929-0905

FAX: 231-929-0894

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CHAIN OF CUSTODY

PROJECT NUMBER M19-3176	SITE NAME/ADDRESS Third Street Parking Lot (3rd St.)	COMPANY/NAME
SAMPLED BY	COMPANY	GTA PROJECT # 122419-4

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	S-1	12/23/19		GW	VOC, PNA, 8 metals
2	S-2			GW	VOC, PNA, 8 metals
3	S-3			GW	VOC, PNA
4	S-4			GW	VOC, PNA
5	S-1 e 3-4'			Soil	8 metals
6	S-2 e 3-4'			Soil	8 metals
					* Metals = As, Ba, Cd, Cr, Pb, Hg, Se, Zn
					* Metals GW field filtered 0.45um
					* Samples Packed on Ice

BILL TO: met
PO Box 485
St. Ignace, MI 49781

REPORT TO:

mete.seulx.com

RELEASED BY **DATE/TIME**
D. J. [Signature] 12/23/19 @ 14:50

RECEIVED BY **DATE/TIME**
K. [Signature] 12/24/19 11:45

122 0.70% on ice

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