



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: 22-001
GTA ProjNo: 010422-5

Site Addr: CITY OF TRAVERSE CITY
DELMAR PARKING LOT

Sampled By: DBB/OMPC
Date Rec: 1/4/2022
Time Rec: 4:15 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	STORM DRAIN WATER	1/4/2022	3:30 PM	WATER
2	STORM DRAIN SEDIMENT	1/4/2022	3:30 PM	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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COMPANY: OTWELL MAWBY, P.C.
 PROJECT NO: 22-001
 LOCATION: CITY OF TRAVERSE CITY
 DELMAR PARKING LOT

GTA PROJECT NO: 010422-5
 GTA SAMPLE NO: 1
 DATE SAMPLED: 1/4/2022
 TIME SAMPLED: 3:30 PM
 DATE RECEIVED: 1/4/2022
 TIME RECEIVED: 4:15 PM

SAMPLED BY: DBB/OMPC
 SAMPLE MATRIX: WATER
 SAMPLE ID: STORM DRAIN WATER

EPA 8260B VOLATILE ORGANICS

Units= ug/L (PPB) Analyst= MR Date Extracted= Date Completed= 1/5/2022 Prep Method= EPA 5030B

<u>Analyte</u>	<u>Concentration</u>	<u>LOD</u>	<u>Analyte</u>	<u>Concentration</u>	<u>LOD</u>
ACETONE	ND	25	cis-1,3-DICHLOROPROPENE	ND	1.0
ALLYL CHLORIDE	ND	10	trans-1,3-DICHLOROPROPENE	ND	1.0
BENZENE	ND	1.0	DIETHYL ETHER	ND	10
BROMOBENZENE	ND	1.0	ETHYLBENZENE	ND	1.0
BROMOCHLOROMETHANE	ND	1.0	ETHYL METHACRYLATE	ND	10
BROMODICHLOROMETHANE	ND	1.0	HEXACHLOROBUTADIENE	ND	1.0
BROMOFORM	ND	1.0	HEXACHLOROETHANE	ND	10
BROMOMETHANE	ND	1.0	2-HEXANONE	ND	10
n-BUTYLBENZENE	ND	1.0	IDOMETHANE	ND	10
s-BUTYLBENZENE	ND	1.0	ISOPROPYLBENZENE	ND	1.0
t-BUTYLBENZENE	ND	1.0	ISOPROPYLTOLUENE	ND	1.0
CARBON DISULFIDE	ND	5.0	METHYL ACRYLATE	ND	10
CARBON TETRACHLORIDE	ND	1.0	METHYL ETHYL KETONE	ND	10
CHLOROENZENE	ND	1.0	METHYL-t-BUTYL ETHER	ND	5.0
1-CHLOROBUTANE	ND	1.0	METHYLENE CHLORIDE	ND	1.0
CHLOROFORM	ND	1.0	METHYL METHACRYLATE	ND	10
CHLOROETHANE	ND	1.0	MIBK	ND	10
CHLOROMETHANE	ND	1.0	2-METHYLNAPHTHALENE	ND	5.0
2-CHLOROTOLUENE	ND	1.0	NAPHTHALENE	ND	5.0
4-CHLOROTOLUENE	ND	1.0	PENTACHLOROETHANE	ND	10
DIBROMOCHLOROMETHANE	ND	1.0	n-PROPYLBENZENE	ND	1.0
DIBROMOMETHANE	ND	1.0	STYRENE	ND	1.0
1,2-DIBROMOETHANE	ND	1.0	1,1,1,2-TETRACHLOROETHANE	ND	1.0
1,2-DICHLOROENZENE	ND	1.0	1,1,2,2-TETRACHLOROETHANE	ND	1.0
1,3-DICHLOROENZENE	ND	1.0	TETRACHLOROETHENE	ND	1.0
1,4-DICHLOROENZENE	ND	1.0	TOLUENE	ND	1.0
t-1,4-DICHLORO-2-BUTENE	ND	10	1,2,3-TRICHLOROENZENE	ND	1.0
DICHLORODIFLUOROMETHANE	ND	1.0	1,2,4-TRICHLOROENZENE	ND	1.0
1,1-DICHLOROETHANE	ND	1.0	1,1,1-TRICHLOROETHANE	ND	1.0
1,2-DICHLOROETHANE	ND	1.0	1,1,2-TRICHLOROETHANE	ND	1.0
1,1-DICHLOROETHENE	ND	1.0	TRICHLOROETHENE	ND	1.0
cis-1,2-DICHLOROETHENE	ND	1.0	TRICHLORFLUOROMETHANE	ND	1.0
trans-1,2-DICHLOROETHENE	ND	1.0	1,2,3-TRICHLOROPROPANE	ND	1.0
1,2-DICHLOROPROPANE	ND	1.0	1,2,4-TRIMETHYLBENZENE	ND	1.0
1,3-DICHLOROPROPANE	ND	1.0	1,3,5-TRIMETHYLBENZENE	ND	1.0
2,2-DICHLOROPROPANE	ND	1.0	VINYL CHLORIDE	ND	1.0
1,1-DICHLOROPROPENE	ND	1.0	XYLENE (TOTAL)	ND	3.0

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



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COMPANY: OTWELL MAWBY, P.C.
 PROJECT NO: 22-001
 LOCATION: CITY OF TRAVERSE CITY
 DELMAR PARKING LOT

GTA PROJECT NO: 010422- - 2
 DATE SAMPLED: 1/4/2022
 TIME SAMPLED: 3:30 PM
 DATE RECEIVED: 1/4/2022
 TIME RECEIVED: 4:15 PM
 SAMPLED: DBB/OMPC
 SAMPLE MATRIX: SOIL

MI
 SAMPLE ID: STORM DRAIN SEDIMENT

BASE NEUTRAL ACID EXTRACTABLES EPA 8270D

Units= ug/Kg (PPB) Analyst KC/TR Date 1/7/2022 Date Completed= 1/12/2022
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-Methylphenol	ND	330
Carbazole	ND	330	4-methylphenol	ND	330
4-Chloroaniline	ND	1700	2-Nitroaniline	ND	1700
bis(2-Chloroethoxy)methane	ND	330	3-Nitroaniline	ND	1700
bis(2-Chloroethyl)ether	ND	100	4-Nitroaniline	ND	1700
bis(2-Chloroisopropyl)ether	ND	330	Nitrobenzene	ND	200
4-Chloro-3-	ND	330	2-Nitrophenol	ND	330
2-Chloronaphthalene	ND	330	4-Nitrophenol	ND	1700
2-Chlorophenol	ND	330	N-Nitrosodiphenylamine	ND	330
4-Chlorophenylphenyl	ND	330	N-Nitroso-di-n-propylamine	ND	330
Chrysene	ND	330	di-n-Octyl phthalate	ND	330
Dibenz(ah)anthracene	ND	330	Pentachlorophenol	ND	20
Dibenzofuran	ND	330	Phenanthrene	ND	330
1,2-Dichlorobenzene	ND	330	Phenol	ND	330
1,3-Dichlorobenzene	ND	330	Pyrene	ND	330
1,4-Dichlorobenzene	ND	330	1,2,4-Trichlorobenzene	ND	330
3,3'-Dichlorobenzidine	ND	2000	2,4,5-Trichlorophenol	ND	330
2,4-Dichlorophenol	ND	330	2,4,6-Trichlorophenol	ND	330
Diethyl phthalate	ND	330			
2,4-Dimethylphenol	ND	330			
Dimethyl phthalate	ND	330			

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COMPANY:	OTWELL MAWBY, P.C.	GTA PROJECT NO:	010422-5
PROJECT NO:	22-001	GTA SAMPLE NO:	1
LOCATION:	CITY OF TRAVERSE CITY DELMAR PARKING LOT	DATE SAMPLED:	1/4/2022
		TIME SAMPLED:	3:30 PM
		DATE RECEIVED:	1/4/2022
		TIME RECEIVED:	4:15 PM
SAMPLED BY:	MI DBB/OMPC	SAMPLE MATRIX:	WATER
SAMPLE ID:	STORM DRAIN 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	1/11/2022	EPA 3020A
BARIUM TOTAL EPA 6020A	0.16	0.0010	mg/L (PPM)	MR	1/11/2022	EPA 3020A
CADMIUM TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	1/11/2022	EPA 3020A
CHROMIUM TOTAL EPA 6020A	0.0012	0.0010	mg/L (PPM)	MR	1/11/2022	EPA 3020A
COPPER TOTAL EPA 6020A	0.0046	0.0010	mg/L (PPM)	MR	1/11/2022	EPA 3020A
LEAD TOTAL EPA 6020A	0.0018	0.0010	mg/L (PPM)	MR	1/11/2022	EPA 3020A
MERCURY TOTAL EPA 7470A	ND	0.00020	mg/L (PPM)	MR	1/13/2022	EPA 7470
SELENIUM TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	1/11/2022	EPA 3020A
SILVER TOTAL EPA 6020A	ND	0.0010	mg/L (PPM)	MR	1/11/2022	EPA 3020A
ZINC TOTAL EPA 6020A	0.021	0.010	mg/L (PPM)	MR	1/11/2022	EPA 3020A

ND = NOT DETECTED, RESULT < LOD
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DISS = DISSOLVED



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COMPANY:	OTWELL MAWBY, P.C.	GTA PROJECT NO:	010422-5
		GTA SAMPLE NO:	2
PROJECT NO:	22-001	DATE SAMPLED:	1/4/2022
LOCATION:	CITY OF TRAVERSE CITY	TIME SAMPLED:	3:30 PM
	DELMAR PARKING LOT	DATE RECEIVED:	1/4/2022
	MI	TIME RECEIVED:	4:15 PM
SAMPLED BY:	DBB/OMPC	SAMPLE MATRIX:	SOIL
SAMPLE ID:	STORM DRAIN SEDIMENT		

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	0.73	0.27	mg/Kg (PPM)	MR	1/11/2022	EPA 3050B
BARIUM TOTAL EPA 6020A	6.3	0.27	mg/Kg (PPM)	MR	1/11/2022	EPA 3050B
CADMIUM TOTAL EPA 6020A	ND	0.27	mg/Kg (PPM)	MR	1/11/2022	EPA 3050B
CHROMIUM TOTAL EPA 6020A	1.7	0.27	mg/Kg (PPM)	MR	1/11/2022	EPA 3050B
COPPER TOTAL EPA 6020A	2.2	0.27	mg/Kg (PPM)	MR	1/11/2022	EPA 3050B
LEAD TOTAL EPA 6020A	1.7	0.27	mg/Kg (PPM)	MR	1/11/2022	EPA 3050B
MERCURY TOTAL EPA 7471B	ND	0.015	mg/Kg (PPM)	MR	1/13/2022	EPA 7471
SELENIUM TOTAL EPA 6020A	ND	0.27	mg/Kg (PPM)	MR	1/11/2022	EPA 3050B
SILVER TOTAL EPA 6020A	ND	0.27	mg/Kg (PPM)	MR	1/11/2022	EPA 3050B
ZINC TOTAL EPA 6020A	20	2.7	mg/Kg (PPM)	MR	1/11/2022	EPA 3050B

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COMPANY: OTWELL MAWBY, P.C.

NAME:
PROJECT NO: 22-001

LOCATION: CITY OF TRAVERSE CITY
DELMAR PARKING LOT

MI

GTA PROJECT NO: 010422-
SAMPLED BY: DBB/OMPC

DATE SAMPLED: 1/4/2022

SAMPLE MATRIX: SOIL

DATE RECEIVED: 1/4/2022
TIME RECEIVED: 4:15 PM

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: STORM DRAIN SEDIMENT % MOISTURE EPA 3550C	16	0.050	% OF SAMPLE	AS	1/10/2022

