



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: GCES
Name:
ClientProj: 240267
GTA ProjNo: 120324-6

Site Addr: FISH PASS-BACKFILL

Sampled By: JFR/GCES

Date Rec: 12/3/2024

Time Rec: 4:20 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	FILL SAND	12/3/2024	3:15 PM	SOIL
2	2NS	12/3/2024	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
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com



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PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: GCES
PROJECT NO: 240267
LOCATION: FISH PASS-BACKFILL

SAMPLED BY: JFR/GCES
SAMPLE MATRIX: SOIL

GTA PROJECT NO: 120324-6
GTA SAMPLE NO: 1

DATE SAMPLED: 12/3/2024
TIME SAMPLED: 3:15 PM
DATE RECEIVED: 12/3/2024
TIME RECEIVED: 4:20 PM

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

SAMPLE ID: FILL SAND

EPA 8260B VOLATILE ORGANICS

Units= ug/Kg (PPB) Analyst= MR Date Extracted= 12/3/2024 Date Completed= 12/4/2024 Prep Method= EPA 5035A

Analyte	Concentration	LOD	Analyte	Concentration	LOD
ACETONE	ND	1,000	cis-1,3-	ND	50
ALLYL CHLORIDE	ND	250	trans-1,3-DICHLOROPROPENE	ND	50
BENZENE	ND	50	DIETHYL ETHER	ND	200
BROMOBENZENE	ND	100	ETHYLBENZENE	ND	50
BROMOCHLOROMETHANE	ND	100	ETHYL METHACRYLATE	ND	250
BROMODICHLOROMETHANE	ND	50	HEXACHLOROBUTADIENE	ND	50
BROMOFORM	ND	100	HEXACHLOROETHANE	ND	250
BROMOMETHANE	ND	200	2-HEXANONE	ND	2,500
n-BUTYLBENZENE	ND	50	IDOMETHANE	ND	250
s-BUTYLBENZENE	ND	50	ISOPROPYLBENZENE	ND	50
t-BUTYLBENZENE	ND	50	ISOPROPYLTOLUENE	ND	50
CARBON DISULFIDE	ND	250	METHYL ACRYLATE	ND	250
CARBON TETRACHLORIDE	ND	50	METHYL ETHYL KETONE	ND	750
CHLOROBENZENE	ND	50	METHYL-t-BUTYL ETHER	ND	250
1-CHLOROBUTANE	ND	100	METHYLENE CHLORIDE	ND	100
CHLOROFORM	ND	50	METHYL METHACRYLATE	ND	250
CHLOROETHANE	ND	250	MIBK	ND	2,500
CHLOROMETHANE	ND	250	2-METHYLNAPHTHALENE	ND	250
2-CHLOROTOLUENE	ND	50	NAPHTHALENE	ND	250
4-CHLOROTOLUENE	ND	50	PENTACHLOROETHANE	ND	250
DIBROMOCHLOROMETHANE	ND	100	n-PROPYLBENZENE	ND	50
DIBROMOMETHANE	ND	250	STYRENE	ND	50
1,2-DIBROMOETHANE	ND	20	1,1,1,2-TETRACHLOROETHANE	ND	100
1,2-DICHLOROBENZENE	ND	50	1,1,2,2-TETRACHLOROETHANE	ND	50
1,3-DICHLOROBENZENE	ND	50	TETRACHLOROETHENE	ND	50
1,4-DICHLOROBENZENE	ND	50	TOLUENE	ND	50
t-1,4-DICHLORO-2-BUTENE	ND	50	1,2,3-TRICHLOROBENZENE	ND	50
DICHLORODIFLUOROMETHANE	ND	250	1,2,4-TRICHLOROBENZENE	ND	250
1,1-DICHLOROETHANE	ND	50	1,1,1-TRICHLOROETHANE	ND	50
1,2-DICHLOROETHANE	ND	50	1,1,2-TRICHLOROETHANE	ND	50
1,1-DICHLOROETHENE	ND	50	TRICHLOROETHENE	ND	50
cis-1,2-DICHLOROETHENE	ND	50	TRICHLORFLUOROMETHANE	ND	100
trans-1,2-DICHLOROETHENE	ND	50	1,2,3-TRICHLOROPROPANE	ND	100
1,2-DICHLOROPROPANE	ND	50	1,2,4-TRIMETHYLBENZENE	ND	50
1,3-DICHLOROPROPANE	ND	50	1,3,5-TRIMETHYLBENZENE	ND	50
2,2-DICHLOROPROPANE	ND	50	VINYL CHLORIDE	ND	40
1,1-DICHLOROPROPENE	ND	50	XYLENE (TOTAL)	ND	150

ND = NOT DETECTED, RESULT IS <LOD.

LOD = LIMIT OF DETECTION.

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COMPANY: GCES
PROJECT NO: 240267
LOCATION: FISH PASS-BACKFILL

GTA PROJECT NO: 120324-6
GTA SAMPLE NO: 2

DATE SAMPLED: 12/3/2024
TIME SAMPLED: 3:30 PM
DATE RECEIVED: 12/3/2024
TIME RECEIVED: 4:20 PM

SAMPLED BY: JFR/GCES
SAMPLE MATRIX: SOIL

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

SAMPLE ID: 2NS

EPA 8260B VOLATILE ORGANICS

Units= ug/Kg (PPB) **Analyst=** MR **Date Extracted=** 12/3/2024 **Date Completed=** 12/4/2024 **Prep Method=** EPA 5035A

Analyte	Concentration	LOD	Analyte	Concentration	LOD
ACETONE	ND	1,000	cis-1,3-	ND	50
ALLYL CHLORIDE	ND	250	trans-1,3-DICHLOROPROPENE	ND	50
BENZENE	ND	50	DIETHYL ETHER	ND	200
BROMOBENZENE	ND	100	ETHYLBENZENE	ND	50
BROMOCHLOROMETHANE	ND	100	ETHYL METHACRYLATE	ND	250
BROMODICHLOROMETHANE	ND	50	HEXACHLOROBUTADIENE	ND	50
BROMOFORM	ND	100	HEXACHLOROETHANE	ND	250
BROMOMETHANE	ND	200	2-HEXANONE	ND	2,500
n-BUTYLBENZENE	ND	50	IDOMETHANE	ND	250
s-BUTYLBENZENE	ND	50	ISOPROPYLBENZENE	ND	50
t-BUTYLBENZENE	ND	50	ISOPROPYLTOLUENE	ND	50
CARBON DISULFIDE	ND	250	METHYL ACRYLATE	ND	250
CARBON TETRACHLORIDE	ND	50	METHYL ETHYL KETONE	ND	750
CHLOROBENZENE	ND	50	METHYL-t-BUTYL ETHER	ND	250
1-CHLOROBUTANE	ND	100	METHYLENE CHLORIDE	ND	100
CHLOROFORM	ND	50	METHYL METHACRYLATE	ND	250
CHLOROETHANE	ND	250	MIBK	ND	2,500
CHLOROMETHANE	ND	250	2-METHYLNAPHTHALENE	ND	250
2-CHLOROTOLUENE	ND	50	NAPHTHALENE	ND	250
4-CHLOROTOLUENE	ND	50	PENTACHLOROETHANE	ND	250
DIBROMOCHLOROMETHANE	ND	100	n-PROPYLBENZENE	ND	50
DIBROMOMETHANE	ND	250	STYRENE	ND	50
1,2-DIBROMOETHANE	ND	20	1,1,1,2-TETRACHLOROETHANE	ND	100
1,2-DICHLOROBENZENE	ND	50	1,1,2,2-TETRACHLOROETHANE	ND	50
1,3-DICHLOROBENZENE	ND	50	TETRACHLOROETHENE	ND	50
1,4-DICHLOROBENZENE	ND	50	TOLUENE	ND	50
t-1,4-DICHLORO-2-BUTENE	ND	50	1,2,3-TRICHLOROBENZENE	ND	50
DICHLORODIFLUOROMETHANE	ND	250	1,2,4-TRICHLOROBENZENE	ND	250
1,1-DICHLOROETHANE	ND	50	1,1,1-TRICHLOROETHANE	ND	50
1,2-DICHLOROETHANE	ND	50	1,1,2-TRICHLOROETHANE	ND	50
1,1-DICHLOROETHENE	ND	50	TRICHLOROETHENE	ND	50
cis-1,2-DICHLOROETHENE	ND	50	TRICHLORFLUOROMETHANE	ND	100
trans-1,2-DICHLOROETHENE	ND	50	1,2,3-TRICHLOROPROPANE	ND	100
1,2-DICHLOROPROPANE	ND	50	1,2,4-TRIMETHYLBENZENE	ND	50
1,3-DICHLOROPROPANE	ND	50	1,3,5-TRIMETHYLBENZENE	ND	50
2,2-DICHLOROPROPANE	ND	50	VINYL CHLORIDE	ND	40
1,1-DICHLOROPROPENE	ND	50	XYLENE (TOTAL)	ND	150

ND = NOT DETECTED, RESULT IS <LOD.

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COMPANY: GCES
PROJECT NO: 240267
LOCATION: FISH PASS-BACKFILL

GTA PROJECT NO: 120324-6 - 1
DATE SAMPLED: 12/3/2024
TIME SAMPLED: 3:15 PM
DATE RECEIVED: 12/3/2024
TIME RECEIVED: 4:20 PM
SAMPLED BY:: JFR/GCES
SAMPLE MATRIX: SOIL

SAMPLE ID: MI
FILL SAND

BASE NEUTRAL ACID EXTRACTABLES EPA 8270D

Units= ug/Kg (PPB) **Analyst** KC/TR **Date Extracted=** 12/9/2024 **Date Completed=** 12/18/2024
Prep Method= EPA 3550B

Analyte	Concentration	LOD	Analyte	Concentration	LOD
Acenaphthene	ND	330	4,6-Dinitro-2-	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
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COMPANY: GCES
PROJECT NO: 240267
LOCATION: FISH PASS-BACKFILL

GTA PROJECT NO: 120324-6 - 2
DATE SAMPLED: 12/3/2024
TIME SAMPLED: 3:30 PM
DATE RECEIVED: 12/3/2024
TIME RECEIVED: 4:20 PM
SAMPLED BY:: JFR/GCES
SAMPLE MATRIX: SOIL

SAMPLE ID: MI
2NS

BASE NEUTRAL ACID EXTRACTABLES EPA 8270D

Units= ug/Kg (PPB) Analyst KC/TR Date Extracted= 12/9/2024 Date Completed= 12/18/2024
Prep Method= EPA 3550B

Analyte	Concentration	LOD	Analyte	Concentration	LOD
Acenaphthene	ND	330	4,6-Dinitro-2-	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
Benidine	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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LOD = LIMIT OF DETECTION

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COMPANY: GCES
PROJECT NO: 240267
LOCATION: FISH PASS-BACKFILL

SAMPLED BY: MI
JFR/GCES
SAMPLE MATRIX: SOIL

GTA PROJECT NO: 120324-6 - 1
DATE SAMPLED: 12/3/2024
TIME SAMPLED: 3:15 PM

DATE RECEIVED: 12/3/2024
TIME RECEIVED: 4:20 PM
SAMPLE ID: FILL SAND

PCB 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>
AROCLOR 1016	ND	330	ug/Kg (PPB)	KC/TR	12/9/2024	12/13/2024	EPA 3550B
AROCLOR 1221	ND	330					
AROCLOR 1232	ND	330					
AROCLOR 1242	ND	330					
AROCLOR 1248	ND	330					
AROCLOR 1254	ND	330					
AROCLOR 1260	ND	330					

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

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COMPANY: GCES
PROJECT NO: 240267
LOCATION: FISH PASS-BACKFILL

SAMPLED BY: MI
JFR/GCES
SAMPLE MATRIX: SOIL

GTA PROJECT NO: 120324-6 - 2
DATE SAMPLED: 12/3/2024
TIME SAMPLED: 3:30 PM

DATE RECEIVED: 12/3/2024
TIME RECEIVED: 4:20 PM
SAMPLE ID: 2NS

PCB 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>
AROCLOR 1016	ND	330	ug/Kg (PPB)	KC/TR	12/9/2024	12/13/2024	EPA 3550B
AROCLOR 1221	ND	330					
AROCLOR 1232	ND	330					
AROCLOR 1242	ND	330					
AROCLOR 1248	ND	330					
AROCLOR 1254	ND	330					
AROCLOR 1260	ND	330					

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

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COMPANY: GCES
PROJECT NO: 240267
LOCATION: FISH PASS-BACKFILL

MI
SAMPLE ID: FILL SAND

GTA PROJECT NO: 120324-6 - 11
DATE SAMPLED: 12/3/2024
TIME SAMPLED: 3:15 PM
DATE RECEIVED: 12/3/2024
TIME RECEIVED: 4:20 PM
SAMPLED JFR/GCES

SAMPLE MATRIX: SOIL

EPA 1311 TCLP/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	1.0	ug/L (PPB)	MR	12/6/2024	12/8/2024	1311/5030B
Carbon Tetrachloride	ND	1.0					
Chlorobenzene	ND	1.0					
Chloroform	ND	1.0					
1,2-Dichloroethane	ND	1.0					
1,1-Dichloroethene	ND	1.0					
Methyl Ethyl Ketone	ND	1.0					
Tetrachloroethene	ND	1.0					
Trichloroethene	ND	1.0					
Vinyl Chloride	ND	1.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED
LOD = LIMIT OF

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COMPANY: GCES
PROJECT NO: 240267
LOCATION: FISH PASS-BACKFILL

MI
SAMPLE ID: 2NS

GTA PROJECT NO: 120324-6 - 22
DATE SAMPLED: 12/3/2024
TIME SAMPLED: 3:30 PM
DATE RECEIVED: 12/3/2024
TIME RECEIVED: 4:20 PM
SAMPLED JFR/GCES

SAMPLE MATRIX: SOIL

EPA 1311 TCLP/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	1.0	ug/L (PPB)	MR	12/6/2024	12/8/2024	1311/5030B
Carbon Tetrachloride	ND	1.0					
Chlorobenzene	ND	1.0					
Chloroform	ND	1.0					
1,2-Dichloroethane	ND	1.0					
1,1-Dichloroethene	ND	1.0					
Methyl Ethyl Ketone	ND	1.0					
Tetrachloroethene	ND	1.0					
Trichloroethene	ND	1.0					
Vinyl Chloride	ND	1.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED
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COMPANY: GCES
NAME:
PROJECT NO: 240267
LOCATION: FISH PASS-BACKFILL

GTA PROJECT NO: 120324-6 11
DATE SAMPLED: 12/3/2024
TIME SAMPLED: 3:15 PM
DATE RECEIVED: 12/3/2024
TIME RECEIVED: 4:20 PM

MI
SAMPLED JFR/GCES

TCLP SEMI-VOLATILES EPA 1311/8270C

<u>No:</u>	<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>
SAMPLE ID:	FILL SAND							
	SAMPLE MATRIX: SOIL							
1,4-DICHLOROBENZENE		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
2,4,5-TRICHLOROPHENOL		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
2,4,6-TRICHLOROPHENOL		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
2,4-DINITROTOLUENE		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
HEXACHLORO-1,3-BUTADIENE		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
HEXACHLOROBENZENE		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
HEXACHLOROETHANE		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
m-CRESOL		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
NITROBENZENE		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
o-CRESOL		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
p-CRESOL		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
PENTACHLOROPHENOL		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
PYRIDINE		ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT

ND = NOT DETECTED

LOD = LIMIT OF

GRO = GASOLINE RANGE ORGANICS

DRO = DIESEL RANGE ORGANICS

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: GCES
NAME:
PROJECT NO: 240267
LOCATION: FISH PASS-BACKFILL

GTA PROJECT NO: 120324-6 22
DATE SAMPLED: 12/3/2024
TIME SAMPLED: 3:30 PM
DATE RECEIVED: 12/3/2024
TIME RECEIVED: 4:20 PM

SAMPLED MI
JFR/GCES

TCLP SEMI-VOLATILES EPA 1311/8270C

<u>No:</u>	<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>
SAMPLE ID: 2NS								
SAMPLE MATRIX: SOIL								
	1,4-DICHLOROBENZENE	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
	2,4,5-TRICHLOROPHENOL	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
	2,4,6-TRICHLOROPHENOL	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
	2,4-DINITROTOLUENE	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
	HEXACHLORO-1,3-BUTADIENE	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
	HEXACHLOROBENZENE	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
	HEXACHLOROETHANE	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
	m-CRESOL	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
	NITROBENZENE	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
	o-CRESOL	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
	p-CRESOL	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
	PENTACHLOROPHENOL	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C
	PYRIDINE	ND	5.0	ug/L (PPB)	KC/TR	12/8/2024	12/18/2024	1311/3510C

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT

ND = NOT DETECTED

LOD = LIMIT OF

GRO = GASOLINE RANGE ORGANICS

DRO = DIESEL RANGE ORGANICS

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www.gtanalytical.com

COMPANY: GCES
PROJECT NO: 240267
LOCATION: FISH PASS-BACKFILL

GTA PROJECT NO: 120324-6
GTA SAMPLE NO: 1

SAMPLED BY: MI
JFR/GCES

DATE SAMPLED: 12/3/2024
TIME SAMPLED: 3:15 PM

SAMPLE ID: FILL SAND

DATE RECEIVED: 12/3/2024
TIME RECEIVED: 4:20 PM

SAMPLE MATRIX: SOIL

EPA 1311 TCLP - 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 TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A
BARIUM TCLP EPA 1311/6020A	0.21	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A
CADMIUM TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A
CHROMIUM TCLP EPA 1311/6020A	0.032	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A
LEAD TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A
MERCURY TCLP EPA 1311/7470A	ND	0.0002	mg/L (PPM)	MR	12/12/2024	1311/7470
SELENIUM TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A
SILVER TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A

ND = NOT DETECTED
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: GCES
PROJECT NO: 240267
LOCATION: FISH PASS-BACKFILL

GTA PROJECT NO: 120324-6
GTA SAMPLE NO: 2

DATE SAMPLED: 12/3/2024
TIME SAMPLED: 3:30 PM

SAMPLED BY: MI
JFR/GCES

DATE RECEIVED: 12/3/2024
TIME RECEIVED: 4:20 PM

SAMPLE ID: 2NS

SAMPLE MATRIX: SOIL

EPA 1311 TCLP - 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 TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A
BARIUM TCLP EPA 1311/6020A	0.19	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A
CADMIUM TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A
CHROMIUM TCLP EPA 1311/6020A	0.033	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A
LEAD TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A
MERCURY TCLP EPA 1311/7470A	ND	0.0002	mg/L (PPM)	MR	12/12/2024	1311/7470
SELENIUM TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A
SILVER TCLP EPA 1311/6020A	ND	0.0050	mg/L (PPM)	MR	12/10/2024	1311/3020A

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LOD = LIMIT OF DETECTION
DISS = DISSOLVED



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COMPANY:	GCES	GTA PROJECT NO:	120324-6
PROJECT NO:	240267	GTA SAMPLE NO:	11
LOCATION:	FISH PASS-BACKFILL	DATE RECEIVED:	12/3/2024
		TIME RECEIVED:	4:20 PM
	MI	DATE SAMPLED:	12/3/2024
SAMPLED BY:	JFR/GCES	TIME SAMPLED:	3:15 PM
SAMPLE ID:	FILL SAND	SAMPLE MATRIX:	SOIL

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
FLASHPOINT/IGNITABILITY SW1010B	>200	50	DEGREE F	ALS	12/7/2024
pH SW9045D	7.1	0.10	s.u.	AA	12/4/2024
REACTIVE CYANIDE SW7.3.3.2	ND	100	mg/Kg (PPM)	ALS	12/6/2024
REACTIVE SULFIDE SW7.3.4.2	ND	100	mg/Kg (PPM)	ALS	12/6/2024

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

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COMPANY:	GCES	GTA PROJECT NO:	120324-6
PROJECT NO:	240267	GTA SAMPLE NO:	22
LOCATION:	FISH PASS-BACKFILL	DATE RECEIVED:	12/3/2024
		TIME RECEIVED:	4:20 PM
	MI	DATE SAMPLED:	12/3/2024
SAMPLED BY:	JFR/GCES	TIME SAMPLED:	3:30 PM
SAMPLE ID:	2NS	SAMPLE MATRIX:	SOIL

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
FLASHPOINT/IGNITABILITY SW1010B	>200	50	DEGREE F	ALS	12/7/2024
pH SW9045D	7.4	0.10	s.u.	AA	12/4/2024
REACTIVE CYANIDE SW7.3.3.2	ND	100	mg/Kg (PPM)	ALS	12/6/2024
REACTIVE SULFIDE SW7.3.4.2	ND	100	mg/Kg (PPM)	ALS	12/6/2024

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED



INDEPENDENT TESTING LAB

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COMPANY: GCES

GTA PROJECT NO: 120324-6

NAME:

SAMPLED BY: JFR/GCES

PROJECT NO: 240267

DATE SAMPLED: 12/3/2024

LOCATION: FISH PASS-BACKFILL

SAMPLE MATRIX: SOIL

DATE RECEIVED: 12/3/2024

TIME RECEIVED: 4:20 PM

MI

MOISTURE

No: Analysis

SAMPLE ID: FILL SAND

% MOISTURE EPA 3550C

SAMPLE ID: 2NS

% MOISTURE EPA 3550C

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
5.1	0.10	% OF SAMPLE	AA	12/3/2024
4.4	0.10	% OF SAMPLE	AA	12/3/2024

