



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: WOLVERINE POWER
Name:
ClientProj: 4220
GTA ProjNo: 050819-3

Site Addr: FAIRVIEW SUBSTATION
Sampled By: DH/JR - COMPLIANCE
Date Rec: 5/8/2019
Time Rec: 11:45 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	HA-2	5/7/2019		WATER
2	HA-3	5/7/2019		WATER
3	HA-4	5/7/2019		WATER
4	GP-1 10'-15'	5/7/2019		WATER
5	GP-8 7'-12'	5/7/2019		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 L Chase

Kirk L. Chase/Chemist
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COMPANY: WOLVERINE POWER
 PROJECT NO: 4220
 LOCATION: FAIRVIEW SUBSTATION
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: HA-2

GTA PROJECT NO: 050819-3
 GTA SAMPLE NO: 1
 DATE SAMPLED: 5/7/2019
 TIME SAMPLED:
 DATE RECEIVED: 5/8/2019
 TIME RECEIVED: 11:45 AM

SAMPLED BY: DH/JR - COMPLIANCE

EPA 8260B VOLATILE ORGANICS

<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>
Benzene	ND	1.0	ug/L (PPB)	MR		5/8/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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



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COMPANY: WOLVERINE POWER
 PROJECT NO: 4220
 LOCATION: FAIRVIEW SUBSTATION
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: HA-3

GTA PROJECT NO: 050819-3
 GTA SAMPLE NO: 2
 DATE SAMPLED: 5/7/2019
 TIME SAMPLED:
 DATE RECEIVED: 5/8/2019
 TIME RECEIVED: 11:45 AM

SAMPLED BY: DH/JR - COMPLIANCE

EPA 8260B VOLATILE ORGANICS

<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>
Benzene	ND	1.0	ug/L (PPB)	MR		5/8/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
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1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
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COMPANY: WOLVERINE POWER
 PROJECT NO: 4220
 LOCATION: FAIRVIEW SUBSTATION
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: HA-4

GTA PROJECT NO: 050819-3
 GTA SAMPLE NO: 3
 DATE SAMPLED: 5/7/2019
 TIME SAMPLED:
 DATE RECEIVED: 5/8/2019
 TIME RECEIVED: 11:45 AM

SAMPLED BY: DH/JR - COMPLIANCE

EPA 8260B VOLATILE ORGANICS

<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>
Benzene	ND	1.0	ug/L (PPB)	MR		5/8/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: WOLVERINE POWER
 PROJECT NO: 4220
 LOCATION: FAIRVIEW SUBSTATION

GTA PROJECT NO: 050819-3
 GTA SAMPLE NO: 4

DATE SAMPLED: 5/7/2019
 TIME SAMPLED:

DATE RECEIVED: 5/8/2019
 TIME RECEIVED: 11:45 AM

SAMPLED BY: DH/JR - COMPLIANCE

SAMPLE MATRIX: WATER
 SAMPLE ID: GP-1 10'-15'

EPA 8260B VOLATILE ORGANICS

Units= ug/L (PPB)

Analyst= MR

Date

Date Completed= 5/8/2019

Prep

EPA 5030B

Analyte	Concentration	LOD	Analyte	Concentration	LOD
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

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PROJECT NO: 4220
LOCATION: FAIRVIEW SUBSTATION
MI
SAMPLE MATRIX: WATER
SAMPLE ID: GP-8 7'-12'

GTA PROJECT NO: 050819-3
GTA SAMPLE NO: 5
DATE SAMPLED: 5/7/2019
TIME SAMPLED:
DATE RECEIVED: 5/8/2019
TIME RECEIVED: 11:45 AM
SAMPLED BY: DH/JR - COMPLIANCE

EPA 8260B VOLATILE ORGANICS

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Benzene	ND	1.0	ug/L (PPB)	MR		5/8/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
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 SAMPLE MATRIX: WATER
 SAMPLE ID: GP-1 10'-15'

GTA PROJECT NO: 050819-3
 GTA SAMPLE NO: 4
 DATE SAMPLED: 5/7/2019
 TIME SAMPLED:
 DATE RECEIVED: 5/8/2019
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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 Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	5.0	ug/L (PPB)	KC/TR	5/8/2019	5/9/2019	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					
2-Methylnaphthalene	ND	5.0					
Naphthalene	ND	5.0					
Phenanthrene	ND	2.0					
Pyrene	ND	5.0					

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 SAMPLE ID: GP-8 7'-12'

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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 Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Acenaphthene	ND	5.0	ug/L (PPB)	KC/TR	5/8/2019	5/9/2019	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					
2-Methylnaphthalene	ND	5.0					
Naphthalene	ND	5.0					
Phenanthrene	ND	2.0					
Pyrene	ND	5.0					

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