

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: MILLER ENERGY COMPANY
Name:
ClientProj:

Site Addr: ST. HELEN UNIT CTB

GTA ProjNo: 060120-2

Sampled By: JONATHAN PARKER/SS
Date Rec: 6/1/2020
Time Rec: 2:27 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-2D	5/29/2020	1:13 PM	WATER
2	MW-5	5/29/2020	12:29 PM	WATER
3	MW-6	5/29/2020	12:00 PM	WATER
4	MW-7D	5/29/2020	10:20 AM	WATER
5	MW-7S	5/29/2020	10:35 AM	WATER
6	MW-8	5/29/2020	10:58 AM	WATER
7	MW-9	5/29/2020	11:16 AM	WATER
8	MW-10	5/29/2020	11:43 AM	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
Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: MILLER ENERGY COMPANY
PROJECT NO:
LOCATION: ST. HELEN UNIT CTB
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-2D

GTA PROJECT NO: 060120-2
GTA SAMPLE NO: 1
DATE SAMPLED: 5/29/2020
TIME SAMPLED: 1:13 PM
DATE RECEIVED: 6/1/2020
TIME RECEIVED: 2:27 PM
SAMPLED BY: JONATHAN PARKER/SS

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		6/2/2020	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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PH: 231-929-0905

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COMPANY: MILLER ENERGY COMPANY
PROJECT NO:
LOCATION: ST. HELEN UNIT CTB
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-5

GTA PROJECT NO: 060120-2
GTA SAMPLE NO: 2
DATE SAMPLED: 5/29/2020
TIME SAMPLED: 12:29 PM
DATE RECEIVED: 6/1/2020
TIME RECEIVED: 2:27 PM
SAMPLED BY: JONATHAN PARKER/SS

EPA 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		6/2/2020	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.

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LOD = LIMIT OF DETECTION

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COMPANY: MILLER ENERGY COMPANY
PROJECT NO:
LOCATION: ST. HELEN UNIT CTB
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-6

GTA PROJECT NO: 060120-2
GTA SAMPLE NO: 3
DATE SAMPLED: 5/29/2020
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 6/1/2020
TIME RECEIVED: 2:27 PM
SAMPLED BY: JONATHAN PARKER/SS

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		6/2/2020	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

COMPANY:	MILLER ENERGY COMPANY	GTA PROJECT NO:	060120-2
PROJECT NO:		GTA SAMPLE NO:	4
LOCATION:	ST. HELEN UNIT CTB	DATE SAMPLED:	5/29/2020
		TIME SAMPLED:	10:20 AM
	MI	DATE RECEIVED:	6/1/2020
		TIME RECEIVED:	2:27 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-7D	SAMPLED BY:	JONATHAN PARKER/SS

EPA 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		6/2/2020	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

COMPANY: MILLER ENERGY COMPANY

GTA PROJECT NO: 060120-2

GTA SAMPLE NO: 5

PROJECT NO:

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 5/29/2020

TIME SAMPLED: 10:35 AM

DATE RECEIVED: 6/1/2020

TIME RECEIVED: 2:27 PM

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-7S

SAMPLED BY: JONATHAN PARKER/SS

EPA 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	7.0	1.0	ug/L (PPB)	MR		6/2/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	44	1.0					
Xylene(Total)	170	3.0					
1,2,4-Trimethylbenzene	24	1.0					
1,3,5-Trimethylbenzene	3.4	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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LOD = LIMIT OF DETECTION

COMPANY: MILLER ENERGY COMPANY
PROJECT NO:
LOCATION: ST. HELEN UNIT CTB
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-8
GTA PROJECT NO: 060120-2
GTA SAMPLE NO: 6
DATE SAMPLED: 5/29/2020
TIME SAMPLED: 10:58 AM
DATE RECEIVED: 6/1/2020
TIME RECEIVED: 2:27 PM
SAMPLED BY: JONATHAN PARKER/SS

EPA 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		6/2/2020	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.

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LOD = LIMIT OF DETECTION

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COMPANY: MILLER ENERGY COMPANY

GTA PROJECT NO: 060120-2

PROJECT NO:

GTA SAMPLE NO: 7

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 5/29/2020

TIME SAMPLED: 11:16 AM

MI

DATE RECEIVED: 6/1/2020

TIME RECEIVED: 2:27 PM

SAMPLE MATRIX: WATER

SAMPLE ID: MW-9

SAMPLED BY: JONATHAN PARKER/SS

EPA 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		6/2/2020	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

COMPANY: MILLER ENERGY COMPANY

GTA PROJECT NO: 060120-2

GTA SAMPLE NO: 8

PROJECT NO:

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 5/29/2020

TIME SAMPLED: 11:43 AM

DATE RECEIVED: 6/1/2020

TIME RECEIVED: 2:27 PM

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-10

SAMPLED BY: JONATHAN PARKER/SS

EPA 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		6/2/2020	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

COMPANY: MILLER ENERGY COMPANY

GTA PROJECT NO: 060120-2

GTA SAMPLE NO: 1

PROJECT NO:

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 5/29/2020

TIME SAMPLED: 1:13 PM

DATE RECEIVED: 6/1/2020

TIME RECEIVED: 2:27 PM

MI

SAMPLED BY: JONATHAN PARKER/SS

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: MW-2D						
	CHLORIDE EPA 300.0	220	10	mg/L (PPM)	LV	6/2/2020	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: MILLER ENERGY COMPANY

GTA PROJECT NO: 060120-2

PROJECT NO:

GTA SAMPLE NO: 2

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 5/29/2020

TIME SAMPLED: 12:29 PM

DATE RECEIVED: 6/1/2020

TIME RECEIVED: 2:27 PM

MI

SAMPLED BY: JONATHAN PARKER/SS

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: MW-5						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	6/2/2020	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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COMPANY: MILLER ENERGY COMPANY

GTA PROJECT NO: 060120-2

PROJECT NO:

GTA SAMPLE NO: 3

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 5/29/2020

TIME SAMPLED: 12:00 PM

DATE RECEIVED: 6/1/2020

TIME RECEIVED: 2:27 PM

MI

SAMPLED BY: JONATHAN PARKER/SS

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: MW-6						
	CHLORIDE EPA 300.0	14	10	mg/L (PPM)	LV	6/2/2020	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: MILLER ENERGY COMPANY

GTA PROJECT NO: 060120-2

PROJECT NO:

GTA SAMPLE NO: 4

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 5/29/2020

TIME SAMPLED: 10:20 AM

DATE RECEIVED: 6/1/2020

TIME RECEIVED: 2:27 PM

MI

SAMPLED BY: JONATHAN PARKER/SS

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-7D

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

6/2/2020

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: MILLER ENERGY COMPANY

GTA PROJECT NO: 060120-2

PROJECT NO:

GTA SAMPLE NO: 5

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 5/29/2020

TIME SAMPLED: 10:35 AM

DATE RECEIVED: 6/1/2020

TIME RECEIVED: 2:27 PM

MI

SAMPLED BY: JONATHAN PARKER/SS

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-7S

CHLORIDE EPA 300.0

Concentration

18

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

6/2/2020

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: MILLER ENERGY COMPANY

GTA PROJECT NO: 060120-2

PROJECT NO:

GTA SAMPLE NO: 6

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 5/29/2020

TIME SAMPLED: 10:58 AM

DATE RECEIVED: 6/1/2020

TIME RECEIVED: 2:27 PM

MI

SAMPLED BY: JONATHAN PARKER/SS

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: MW-8						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	6/2/2020	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: MILLER ENERGY COMPANY

GTA PROJECT NO: 060120-2

PROJECT NO:

GTA SAMPLE NO: 7

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 5/29/2020

TIME SAMPLED: 11:16 AM

DATE RECEIVED: 6/1/2020

TIME RECEIVED: 2:27 PM

MI

SAMPLED BY: JONATHAN PARKER/SS

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: MW-9							
CHLORIDE EPA 300.0		ND	10	mg/L (PPM)	LV	6/2/2020	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: MILLER ENERGY COMPANY

GTA PROJECT NO: 060120-2

PROJECT NO:

GTA SAMPLE NO: 8

LOCATION: ST. HELEN UNIT CTB

DATE SAMPLED: 5/29/2020

TIME SAMPLED: 11:43 AM

DATE RECEIVED: 6/1/2020

TIME RECEIVED: 2:27 PM

MI

SAMPLED BY: JONATHAN PARKER/SS

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: MW-10							
CHLORIDE EPA 300.0		ND	10	mg/L (PPM)	LV	6/2/2020	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

040120-2

Client Information

Miller Energy Company
dnida@miller-energy.com
989-948-0961
dnida@miller-energy.com
Due Date:

Project Information

Project Name St. Helen Unit CTB
Report to: dnida@miller-energy.com
989-948-0961
dnida@miller-energy.com

Invoice Information

Miller Energy Company
Attn: dnida@millier-energy.com
989-948-0961
dnida@millier-energy.com

Turn Around Time

Rush? (Lab MUST Be Notified)
☐ Same Day ☐ Three Day
☐ Next Day ☐ Five Day
☐ Two Day ☐ Standard

cdaa26b8-113f-44a6-a5a0-6fef0a86d822

[illegible]

Special Instructions or Notes

Transfer History

Collected by

Sample ID



MW-2D, MW-5, MW-6, MW-7D, MW-7S, MW-8, MW-9, MW-10

Jonathan Parker

Custody Transfer #1

Custody Transfer #2

Custody Transfer #3

Custody Transfer #4

Received at th

Relinquished By

Received by

Relinquished By

Received by

Relinquished By

Received by

Relinquished By

Received by

Received t



Jonathan Parker

06/01/2020 12:34
+4.5503778,
-85.6515837

1437 JP

Sign Be

Received by Lab			
Name	Signature	Date	Time
K. Chase	K. Chase	6/1/20	2:27