

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: LAMBDA ENERGY RESOURCES, LLC

Name:

ClientProj: 20-116

GTA ProjNo: 021623-1

Site Addr: FREDRIC 2 SPILL RESPONSE

Sampled By: JAKE PALINSKY/OMPC

Date Rec: 2/16/2023

Time Rec: 8:00 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SS-4 (SE CORNER) 22'	2/15/2023		SOIL
2	SS-5 (E CORNER) 16'	2/15/2023		SOIL
3	SS-5 (E CORNER) 18'	2/15/2023		SOIL
4	SS-6 (E CORNER) 8'	2/15/2023		SOIL
5	SS-7 (SE CORNER) 8'	2/15/2023		SOIL
6	SS-8 (SW CORNER) 5'	2/15/2023		SOIL
7	SS-9 (NW CORNER) 3'	2/15/2023		SOIL
8	SS-10 (N) 3'	2/15/2023		SOIL
9	SS-11 (N SLAB) 3'	2/15/2023		SOIL
10	SS-12 (S SLAB) 5'	2/15/2023		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
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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-116

LOCATION: FREDRIC 2 SPILL RESPONSE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-4 (SE CORNER) 22'

GTA PROJECT NO: 021623-1

GTA SAMPLE NO: 1

DATE SAMPLED: 2/15/2023

TIME SAMPLED:

DATE RECEIVED: 2/16/2023

TIME RECEIVED: 8:00 AM

SAMPLED BY: JAKE PALINSKY/OMPC

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	50	ug/Kg (PPB) MR		2/15/2023	2/17/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-116

LOCATION: FREDRIC 2 SPILL RESPONSE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-5 (E CORNER) 16'

GTA PROJECT NO: 021623-1

GTA SAMPLE NO: 2

DATE SAMPLED: 2/15/2023

TIME SAMPLED:

DATE RECEIVED: 2/16/2023

TIME RECEIVED: 8:00 AM

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Benzene	ND	50	ug/Kg (PPB)	MR	2/15/2023	2/17/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-116

LOCATION: FREDRIC 2 SPILL RESPONSE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-6 (E CORNER) 8'

GTA PROJECT NO: 021623-1

GTA SAMPLE NO: 4

DATE SAMPLED: 2/15/2023

TIME SAMPLED:

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Benzene	ND	50	ug/Kg (PPB)	MR	2/15/2023	2/17/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-116

LOCATION: FREDRIC 2 SPILL RESPONSE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-7 (SE CORNER) 8'

GTA PROJECT NO: 021623-1

GTA SAMPLE NO: 5

DATE SAMPLED: 2/15/2023

TIME SAMPLED:

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TIME RECEIVED: 8:00 AM

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Benzene	ND	50	ug/Kg (PPB)	MR	2/15/2023	2/17/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-116

LOCATION: FREDRIC 2 SPILL RESPONSE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-8 (SW CORNER) 5'

GTA PROJECT NO: 021623-1

GTA SAMPLE NO: 6

DATE SAMPLED: 2/15/2023

TIME SAMPLED:

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Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-116

LOCATION: FREDRIC 2 SPILL RESPONSE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-9 (NW CORNER) 3'

GTA PROJECT NO: 021623-1

GTA SAMPLE NO: 7

DATE SAMPLED: 2/15/2023

TIME SAMPLED:

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Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-116

LOCATION: FREDRIC 2 SPILL RESPONSE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-10 (N) 3'

GTA PROJECT NO: 021623-1

GTA SAMPLE NO: 8

DATE SAMPLED: 2/15/2023

TIME SAMPLED:

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Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-116

LOCATION: FREDRIC 2 SPILL RESPONSE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-11 (N SLAB) 3'

GTA PROJECT NO: 021623-1

GTA SAMPLE NO: 9

DATE SAMPLED: 2/15/2023

TIME SAMPLED:

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Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-116

LOCATION: FREDRIC 2 SPILL RESPONSE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-12 (S SLAB) 5'

GTA PROJECT NO: 021623-1

GTA SAMPLE NO: 10

DATE SAMPLED: 2/15/2023

TIME SAMPLED:

DATE RECEIVED: 2/16/2023

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Benzene	ND	50	ug/Kg (PPB)	MR	2/15/2023	2/17/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-116
LOCATION: FREDRIC 2 SPILL RESPONSE
MI
SAMPLED BY: JAKE PALINSKY/OMPC

GTA PROJECT NO: 021623-1
GTA SAMPLE NO: 1
DATE SAMPLED: 2/15/2023
TIME SAMPLED:
DATE RECEIVED: 2/16/2023
TIME RECEIVED: 8:00 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SS-4 (SE CORNER) 22' CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	KC/TR	12/16/2023	SOIL

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-116
LOCATION: FREDRIC 2 SPILL RESPONSE
MI
SAMPLED BY: JAKE PALINSKY/OMPC

GTA PROJECT NO: 021623-1
GTA SAMPLE NO: 2
DATE SAMPLED: 2/15/2023
TIME SAMPLED:
DATE RECEIVED: 2/16/2023
TIME RECEIVED: 8:00 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SS-5 (E CORNER) 16' CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	KC/TR	12/16/2023	SOIL

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LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-116
LOCATION: FREDRIC 2 SPILL RESPONSE
MI
SAMPLED BY: JAKE PALINSKY/OMPC

GTA PROJECT NO: 021623-1
GTA SAMPLE NO: 3
DATE SAMPLED: 2/15/2023
TIME SAMPLED:
DATE RECEIVED: 2/16/2023
TIME RECEIVED: 8:00 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SS-5 (E CORNER) 18'						
	CHLORIDE EPA 300.0	ND	110	mg/Kg (PPM)	KC/TR	12/16/2023	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-116
LOCATION: FREDRIC 2 SPILL RESPONSE
MI
SAMPLED BY: JAKE PALINSKY/OMPC

GTA PROJECT NO: 021623-1
GTA SAMPLE NO: 4
DATE SAMPLED: 2/15/2023
TIME SAMPLED:
DATE RECEIVED: 2/16/2023
TIME RECEIVED: 8:00 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SS-6 (E CORNER) 8'						
	CHLORIDE EPA 300.0	200	100	mg/Kg (PPM)	KC/TR	12/16/2023	SOIL

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-116
LOCATION: FREDRIC 2 SPILL RESPONSE
MI
SAMPLED BY: JAKE PALINSKY/OMPC

GTA PROJECT NO: 021623-1
GTA SAMPLE NO: 5
DATE SAMPLED: 2/15/2023
TIME SAMPLED:
DATE RECEIVED: 2/16/2023
TIME RECEIVED: 8:00 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SS-7 (SE CORNER) 8' CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	KC/TR	12/16/2023	SOIL

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-116
LOCATION: FREDRIC 2 SPILL RESPONSE
MI
SAMPLED BY: JAKE PALINSKY/OMPC

GTA PROJECT NO: 021623-1
GTA SAMPLE NO: 6
DATE SAMPLED: 2/15/2023
TIME SAMPLED:
DATE RECEIVED: 2/16/2023
TIME RECEIVED: 8:00 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SS-8 (SW CORNER) 5' CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	KC/TR	12/16/2023	SOIL

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PROJECT NO: 20-116
LOCATION: FREDRIC 2 SPILL RESPONSE
MI
SAMPLED BY: JAKE PALINSKY/OMPC

GTA PROJECT NO: 021623-1
GTA SAMPLE NO: 7
DATE SAMPLED: 2/15/2023
TIME SAMPLED:
DATE RECEIVED: 2/16/2023
TIME RECEIVED: 8:00 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SS-9 (NW CORNER) 3'						
	CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	KC/TR	12/16/2023	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-116
LOCATION: FREDRIC 2 SPILL RESPONSE
MI
SAMPLED BY: JAKE PALINSKY/OMPC

GTA PROJECT NO: 021623-1
GTA SAMPLE NO: 8
DATE SAMPLED: 2/15/2023
TIME SAMPLED:
DATE RECEIVED: 2/16/2023
TIME RECEIVED: 8:00 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SS-10 (N) 3' CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	KC/TR	12/16/2023	SOIL

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-116
LOCATION: FREDRIC 2 SPILL RESPONSE
MI
SAMPLED BY: JAKE PALINSKY/OMPC

GTA PROJECT NO: 021623-1
GTA SAMPLE NO: 9
DATE SAMPLED: 2/15/2023
TIME SAMPLED:
DATE RECEIVED: 2/16/2023
TIME RECEIVED: 8:00 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SS-11 (N SLAB) 3' CHLORIDE EPA 300.0	ND	98	mg/Kg (PPM)	KC/TR	12/16/2023	SOIL

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-116
LOCATION: FREDRIC 2 SPILL RESPONSE
MI
SAMPLED BY: JAKE PALINSKY/OMPC

GTA PROJECT NO: 021623-1
GTA SAMPLE NO: 10
DATE SAMPLED: 2/15/2023
TIME SAMPLED:
DATE RECEIVED: 2/16/2023
TIME RECEIVED: 8:00 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SS-12 (S SLAB) 5'						
	CHLORIDE EPA 300.0	480	100	mg/Kg (PPM)	KC/TR	12/16/2023	SOIL

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: LAMBDA ENERGY RESOURCES, LLC

NAME:

PROJECT NO: 20-116

GTA PROJECT NO: 021623-

SAMPLED BY: JAKE PALINSKY/OMPC

DATE SAMPLED: 2/15/2023

LOCATION: FREDRIC 2 SPILL RESPONSE

SAMPLE MATRIX: SOIL

DATE RECEIVED: 2/16/2023

TIME RECEIVED: 8:00 AM

MI

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: SS-4 (SE CORNER) 22'	% MOISTURE EPA 3550C	4.4	0.10	% OF SAMPLE	AS	2/16/2023
SAMPLE ID: SS-5 (E CORNER) 16'	% MOISTURE EPA 3550C	4.1	0.10	% OF SAMPLE	AS	2/16/2023
SAMPLE ID: SS-5 (E CORNER) 18'	% MOISTURE EPA 3550C	4.7	0.10	% OF SAMPLE	AS	2/16/2023
SAMPLE ID: SS-6 (E CORNER) 8'	% MOISTURE EPA 3550C	3.3	0.10	% OF SAMPLE	AS	2/16/2023
SAMPLE ID: SS-7 (SE CORNER) 8'	% MOISTURE EPA 3550C	3.8	0.10	% OF SAMPLE	AS	2/16/2023
SAMPLE ID: SS-8 (SW CORNER) 5'	% MOISTURE EPA 3550C	4.1	0.10	% OF SAMPLE	AS	2/16/2023
SAMPLE ID: SS-9 (NW CORNER) 3'	% MOISTURE EPA 3550C	4.8	0.10	% OF SAMPLE	AS	2/16/2023
SAMPLE ID: SS-10 (N) 3'	% MOISTURE EPA 3550C	4.4	0.10	% OF SAMPLE	AS	2/16/2023
SAMPLE ID: SS-11 (N SLAB) 3'	% MOISTURE EPA 3550C	2.9	0.10	% OF SAMPLE	AS	2/16/2023
SAMPLE ID: SS-12 (S SLAB) 5'	% MOISTURE EPA 3550C	4.4	0.10	% OF SAMPLE	AS	2/16/2023

CHAIN OF CUSTODY

PROJECT NUMBER 20-116	SITE NAME/ADDRESS Lambda/Fredrick 2 spill Response	COMPANY/NAME Lambda
SAMPLED BY Jack Perkins Rly	COMPANY Otwell Mowby P.C.	GTA PROJECT # 02/623-1

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	SS-4 (SE corner) 18"	2/15/23		Soil	Chlorides / H ₂ O ₂
2	SS-5 (E corner) 16'				Chlorides / H ₂ O ₂
3	SS-5 (E corner) 18'				Chlorides
4	SS-6 (E corner) 8'				Chlorides / H ₂ O ₂
5	SS-7 (SE corner) 8'				Chlorides / H ₂ O ₂
6	SS-8 (SW corner) 5'				Chlorides / H ₂ O ₂
7	SS-9 (NW corner) 3'				Chlorides / H ₂ O ₂
8	SS-10 (N) 3'				Chlorides / H ₂ O ₂
9	SS-11 (N slab) 3'				Chlorides / H ₂ O ₂
10	SS-12 (S slab) 5'				Chlorides / H ₂ O ₂

BILL TO:

TempRec: ☐ Y ☒ N

On Ice? ☒ ☐

REPORT TO:

d.barton@otwellmowby.com

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

Jack Perkins Rly

2/16/23

[Signature]

2-16-23 8AM

REQUESTED TAT

☒ STANDARD

☒ 1 BUSINESS DAY

☐ 2 BUSINESS DAYS

☐ 3 BUSINESS DAYS

H₂O₂

Chlorides