



API# 30-045-13038
From Tubing

Analytical Report

Report Summary

Client: M & G Drilling

Chain Of Custody Number:

Samples Received: 8/12/2015 9:22:00AM

Job Number: 04033-0002

Work Order: P508024

Project Name/Location: Graham 53

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 8/19/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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M & G Drilling
 PO Box 5940
 Farmington NM, 87499

 Project Name: Graham 53
 Project Number: 04033-0002
 Project Manager: David Hinson

Reported:
 19-Aug-15 14:09

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Water Sample	P508024-01A	Aqueous	08/11/15	08/12/15	Poly 500mL
	P508024-01B	Aqueous	08/11/15	08/12/15	Poly 500mL

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Water Sample
P508024-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
pH @14.8°C	8.15		pH Units	1	1533016	08/12/15 13:09	08/12/15 13:09	150.1/4500H	H2
Electrical Conductivity	20500		umhos/cm	1	1533016	08/12/15 13:09	08/12/15 13:09	EPA 120.1	H2
Total Dissolved Solids	12700	10.0	mg/L	1	1533021	08/12/15	08/12/15	160.1/2540C	
Sodium Absorption Ratio	360		N/A	1	1534018	08/18/15	08/18/15	[CALC]	
Total Alkalinity as CaCO3	1270	10.0	mg/L	1	1534007	08/17/15	08/17/15	Hach Method 8203	
Total Hardness as CaCO3	47.2	0.07	mg/L		[CALC]	08/13/15	08/18/15	[CALC]	
Bicarbonate as CaCO3	1270	10.0	mg/L	1	1534007	08/17/15	08/17/15	Hach Method 8203	
Carbonate as CaCO3	ND	10.0	mg/L	1	1534007	08/17/15	08/17/15	Hach Method 8203	
Hydroxide as CaCO3	ND	10.0	mg/L	1	1534007	08/17/15	08/17/15	Hach Method 8203	
Nitrate-N	ND	2.00	mg/L	20	1533015	08/12/15 09:59	08/12/15 13:47	EPA 300.0	
Nitrite-N	ND	2.00	mg/L	20	1533015	08/12/15 09:59	08/12/15 13:47	EPA 300.0	
Chloride	7210	20.0	mg/L	20	1533015	08/12/15	08/12/15	EPA 300.0	
Fluoride	ND	2.00	mg/L	20	1533015	08/12/15	08/12/15	EPA 300.0	
o-Phosphate	ND	10.0	mg/L	20	1533015	08/12/15 09:59	08/12/15 13:47	EPA 300.0	
Sulfate	ND	40.0	mg/L	20	1533015	08/12/15	08/12/15	EPA 300.0	
Iron	0.04	0.01	mg/L	1	1533032	08/13/15	08/18/15	EPA 6010C	
Calcium	5.76	0.01	mg/L	1	1533032	08/13/15	08/18/15	EPA 6010C	
Magnesium	7.98	0.01	mg/L	1	1533032	08/13/15	08/18/15	EPA 6010C	
Potassium	51.5	0.01	mg/L	1	1533032	08/13/15	08/18/15	EPA 6010C	
Sodium	5680	0.10	mg/L	10	1533032	08/13/15	08/18/15	EPA 6010C	

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Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1533015 - Anion Extraction EPA 300.0

Blank (1533015-BLK1)

Prepared & Analyzed: 12-Aug-15

Nitrate-N	ND	0.10	mg/L
Nitrite-N	ND	0.10	"
Chloride	ND	1.00	"
Fluoride	ND	0.10	"
o-Phosphate	ND	0.50	"
Sulfate	ND	2.00	"

LCS (1533015-BS1)

Prepared & Analyzed: 12-Aug-15

Nitrate-N	4.86	0.10	mg/L	5.00	97.1	90-110
Nitrite-N	5.03	0.10	"	5.00	101	90-110
Chloride	49.1	1.00	"	50.0	98.2	90-110
Fluoride	4.93	0.10	"	5.00	98.6	90-110
o-Phosphate	24.3	0.50	"	25.0	97.2	90-110
Sulfate	48.8	2.00	"	50.0	97.6	90-110

Matrix Spike (1533015-MS1)

Source: P508020-01

Prepared & Analyzed: 12-Aug-15

Nitrate-N	4.89	0.10	mg/L	5.00	ND	97.8	80-120
Nitrite-N	4.96	0.10	"	5.00	ND	99.2	80-120
Chloride	51.2	1.00	"	50.0	2.36	97.6	80-120
Fluoride	5.11	0.10	"	5.00	0.15	99.2	80-120
o-Phosphate	23.4	0.50	"	25.0	ND	93.5	80-120
Sulfate	65.3	2.00	"	50.0	17.7	95.3	80-120

Matrix Spike Dup (1533015-MSD1)

Source: P508020-01

Prepared & Analyzed: 12-Aug-15

Nitrate-N	5.03	0.10	mg/L	5.00	ND	101	80-120	2.86	20
Nitrite-N	5.15	0.10	"	5.00	ND	103	80-120	3.70	20
Chloride	52.5	1.00	"	50.0	2.36	100	80-120	2.60	20
Fluoride	5.24	0.10	"	5.00	0.15	102	80-120	2.61	20
o-Phosphate	24.2	0.50	"	25.0	ND	96.6	80-120	3.30	20
Sulfate	66.7	2.00	"	50.0	17.7	98.0	80-120	1.99	20

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com

laboratory@envirotech-inc.com



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Project Name: Graham 53
Project Number: 04033-0002
Project Manager: David Hinson

Reported:
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Notes and Definitions

H2 Sample was analyzed after regulatory hold-time exceeded for target analyte.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Client: M+G Drilling
 Project: Graham 53 API#30-045-13038
 Sampler: Terry Hinson
 Phone: _____
 Email(s): _____
 Project Manager: David Hinson

RUSH?

☐ 1d
☐ 3d

Lab Use Only		Analysis and Method								Lab Only		
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	cat-on/in/dn	for data/in/dn	Vials TC			Lab Number	Correct Cont/Prsv (s) Y/N
Job Number												
p508024												
04033-0002												

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Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	cat-on/in/dn	for data/in/dn	Vials TC	Lab Number	Correct Cont/Prsv (s) Y/N
Water Sample From Tubing	8.11.15	4 PM	Aq	2/500ml poly/Cool					X			1	Y

please note hydrocarbon layer present in sample 8/12/15 TC is aware of hydrocarbon layer. 8/12/15 TC please test water layer (bottom layer) per David 8/12/15 TC

Relinquished by: (Signature) <u>Terry Hinson</u>	Date <u>8.12.15</u>	Time <u>9:18</u>	Received by: (Signature) <u>David Hinson</u>	Date <u>8/12/15</u>	Time <u>9:22</u>	Lab Use Only	
Relinquished by: (Signature) <u>Terry Hinson</u>	Date <u>8.12.15</u>	Time <u>9:18</u>	Received by: (Signature)	Date	Time	**Received on Ice ☒ Y / ☐ N T1 <u>7.2</u> T2 <u>7.3</u> T3 _____ AVG Temp °C <u>7.3</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info:

Both have soap



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