



ANALYTICAL SUMMARY REPORT

October 03, 2011

Analytica Group Inc
12189 Pennsylvania St
Thornton, CO 80241

Received ~11/23/2011
Rifle COGCC office
Re NOAV 200317022

Workorder No.: B11092882

Project Name: B1109178

Energy Laboratories Inc Billings MT received the following 1 sample for Analytica Group Inc on 9/30/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B11092882-001	Surface Casing Water (B1109178-1D)	09/28/11 12:30	09/30/11	Aqueous	Headspace Gas Analysis

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Analytica Group Inc
Project: B1109178
Lab ID: B11092882-001
Client Sample ID Surface Casing Water (B1109178-1D)

Report Date: 10/03/11
Collection Date: 09/28/11 12:30
Date Received: 09/30/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
ORGANIC CHARACTERISTICS							
Methane	6.3	mg/L		0.43		SW8015M	10/03/11 07:01 / bdw
- Sample prep and analysis for dissolved gas in water was done using RSK-SOP-175 by Kampbell et al.							

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Analytica Group Inc
Project: B1109178

Report Date: 10/03/11
Work Order: B11092882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8015M								Analytical Run: R173499		
Sample ID: CCV	Continuing Calibration Verification Standard									
Methane	950	ppm	2.0	95	85	115	10/03/11 05:28			
Sample ID: CCV	Continuing Calibration Verification Standard									
Methane	960	ppm	2.0	96	85	115	10/03/11 09:47			
Method: SW8015M								Batch: R173499		
Sample ID: LCS	Laboratory Control Sample									
Methane	110	ppm	2.0	111	85	115	Run: FID-HEADSPACE_111003A		10/03/11 06:14	
Sample ID: MBLK	Method Blank									
Methane	ND	ppm	2.0	Run: FID-HEADSPACE_111003A		10/03/11 06:28				
Sample ID: B11092882-001ADUP	Sample Duplicate									
Methane	6.15	mg/L	0.43	Run: FID-HEADSPACE_111003A		2.4		10/03/11 08:58		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



B11092882

Login completed by: Leslie S. Cadreau

Date Received: 9/30/2011

Reviewed by: BL2000\jlortz

Received by: dts

Reviewed Date: 9/30/2011

Carrier FedEx
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time?
(Exclude analyses that are considered field parameters
such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 4.6°C | | |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Contact and Corrective Action Comments:

None



Analytica Chain of Custody Form

8438 Stevens Drive
Jensen, AK 99601
(907) 780-0868
(907) 780-0877 fax

6781 Silverado Way, # N
Anchorage, AK 99518
(907) 258-2155
(907) 258-8834 fax

3330 Industrial Ave.
Fairbanks, AK 99701
(907) 458-3116
(907) 458-3125 fax

12189 Pennsylvania Bl
Thornton, CO 80241
(303) 480-8888
(303) 480-8284 fax

Page _____ of _____
Chain of Custody No: **77969**

Client Name & Address: Project Name: B1109178		Public Water System (PWS) ID#: Project Name: B1109178		Quote ID: LGN:		Account #: Cash		Credit Card	
Report to: Carissa Seltrecht		Turnaround Time for Results (TAT): <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Expedited (4-18 days, prior authorization required) <small>(turnaround times may vary)</small>		Invoice to Name & Address: Same as Client		P.O. or Contract No: T14206		Requested Analysis/Method	
Phone No: 303-301-2203		Requested Due Date for Results:		Field Preserved		Field Filtered		MS/MSD ?	
Fax No: 303-469-5254		Special Instructions/Comments: Sub to Energy Labs Billings		No. of Containers		Condition of Custody Seal?:		Initiated By:	
E-mail: cseltrecht@analyticagroup.com		Kit Prep/Shipping Charge: \$		Time Sampled		Temp/Loc:		Thermo ID#:	
Date Sampled		Received by:		Date		Shipped Via:			
Client Sample Identification / Location		Time		Date					
Surface Spray Water (B1109178-10)		9/29/11 16:00		9/30/11 0910					
Relinquished by: DP		Received by: Dan Sager		Date					
Relinquished by:		Received by: [Signature]		Date					
Relinquished by:		Received by:		Date					
Name of Sampler: (printed)		Time		Date					

Fedex Exp 4/6 No ICE



Cooler Receipt Form

Client: Maralex Resources, Inc.
Project: Garfield 2 Federal 26-3

Client Code: 501467

Order #: B1109178

Cooler ID: 1

A. Preliminary Examination Phase:

Date cooler opened: 9/29/2011
Cooler opened by: gp

Signature: GP

- 1. Was airbill Attached? Yes
- 2. Custody Seals? Yes
- 3. Seals intact? Yes
- 4. COC Attached? Yes

Airbill #: 872842457503

Carrier Name: FedEx

How many? 1 Location: Cooler

Seal Name: DCH

Properly Completed? Yes Signed by AEL employee? Yes

5. Project identification from custody paper: Garfield 2 Federal 26-3

6. Preservative: BlueGel Temperature: 2.6 deg. C

Designated person initial here to acknowledge receipt:

GP Date: 9/29/11

COMMENTS:

B. Log-In Phase: Samples Log-in Date: 9/29/2011 Log-in By: gp

- 1. Packing Type: Green Foam
- 2. Were samples in separate bags? N/A
- 3. Were containers intact? Yes Labels agree with COC? Yes
- 4. Number of bottles received: 7 Number of samples received: 1
- 5. Correct containers used? Yes Correct preservatives added? Yes
- 6. Sufficient sample volume? Yes
- 7. Bubbles in VOA samples? No
- 8. Was Project manager called and status discussed? Yes
- 9. Was anyone called? Yes Who was called? _____ By whom? _____ Date: _____

COMMENTS:

SampleNumber	Method	Parameter	MeasuredConcentration	MRL	Flags	Units
Surface Casing Water	RSK-175	Methane	6.3	0.43		mg/L
Surface Casing Water	602	Benzene	890	50		ug/L
Surface Casing Water	602	Toluene	3900	60		ug/L
Surface Casing Water	602	Ethylbenzene	640	75		ug/L
Surface Casing Water	602	Xylenes, Total	8900	150		ug/L
Surface Casing Water	602	tert-Butyl Methyl Ether	0	100	U	ug/L
Surface Casing Water	602	1,2-Dichlorobenzene	590	150		ug/L
Surface Casing Water	602	1,4-Dichlorobenzene	200	150		ug/L
Surface Casing Water	602	1,3-Dichlorobenzene	0	150	U	ug/L
Surface Casing Water	602	Chlorobenzene	0	50	U	ug/L
Surface Casing Water	602	O-Xylene	2800	50		ug/L
Surface Casing Water	602	m&p Xylenes	6100	100		ug/L
Surface Casing Water	300	Fluoride	11.6	0.2		mg/L
Surface Casing Water	300	Chloride	1270	50		mg/L
Surface Casing Water	300	Nitrate as N	0	0.2	U	mg/L
Surface Casing Water	300	Sulfate	1.29	1		mg/L
Surface Casing Water	2320B	Alkalinity, Total	2500	7		mg/L
Surface Casing Water	2320B	Bicarbonate	2500	5		mg/L
Surface Casing Water	200.7	Total Calcium	2100	0.5		mg/L
Surface Casing Water	200.7	Total Magnesium	540	0.5		mg/L
Surface Casing Water	200.7	Total Potassium	200	5		mg/L
Surface Casing Water	200.7	Total Sodium	1400	15		mg/L

Exceeds Table
910-1

1,2-
dichlorobenzene
MCL & Colo GW
Stds = 600 ug/l
1,4-
dichlorobenzene
MCL Colo GW
Stds = 75 ug/l

fluoride Colo
Domestic Water
Supply Std=4.0 mg/
l