

Organic Carbon Case Narrative

Colorado Oil & Gas Conservation Commission Complaint 200339399

Work Order Number: 1202195

1. This report consists of 1 water sample.
2. The sample was received cool and intact by ALS on 02/16/12.
3. The sample had been correctly preserved for the requested analysis.
4. The sample was prepared for analysis based on Methods for the Chemical Analysis of Waters and Wastes (MCAWW), May 1994 procedures.
5. The sample was analyzed following MCAWW procedures for the following method:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
TOC (Total Organic Carbon)	415.1	670 Rev 14

6. All standards and solutions were used within their recommended shelf life.
7. The sample was prepared and analyzed within the established hold time for TOC analysis.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.
 - n A preparation (method) blank, laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) were prepared and analyzed with the samples in this preparation batch. There were not more than 20 samples in this preparation batch.
 - n The method blank associated with this batch was below the reporting limit for the requested analyte. This indicates that no contaminants were introduced to the samples during preparation and analysis.



- The LCS and LCSD were within the acceptance limits for TOC analysis.
- All continuing calibration verifications (CCV) associated with this batch were within the acceptance criteria for the requested analyte. This indicates a valid calibration and stable instrument conditions.

9. Matrix specific quality control procedures.

Due to limited sample volume, matrix QC could not be performed for the TOC analysis. A laboratory control sample duplicate was analyzed and has been provided instead.

10. Sample dilutions were not required for the requested analysis.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Megan Johnson
Megan Johnson
Organics Primary Data Reviewer

2/24/12
Date

[Signature]
Organics Final Data Reviewer

2/24/12
Date



Data Reporting Qualifiers

The following qualifiers are used by the laboratory when reporting results of inorganic analyses.

- Concentration qualifier -- If the analyte was analyzed for but not detected a "U" is entered.
- QC qualifier -- Specified entries and their meanings are as follows:
 - N - Spiked sample recovery not within control limits.
 - * - Duplicate analysis (relative percent difference) not within control limits.
 - B - The method blank for the analysis contained the analyte of interest above the reporting limit.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

Client Project Name: Complaint 200339399

Client Project Number:

Client PO Number: PHA 12-10

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
705325 Nosaka WW	1202195-1		WATER	14-Feb-12	14:17



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 2028

WORKORDER
1202195

PROJECT NAME	PROJECT No.	COMPANY NAME	SEND REPORT TO	ADDRESS	CITY/STATE/ZIP	PHONE	FAX	E-MAIL	Lab ID	Field ID	Matrix	Sample Date	Sample Time	Bottles	Pres	QC	DATE	TURNAROUND	DATE	DISPOSAL	PAGE	of	Return to Client
Complaints	200339399	Peter Gintantak	PO Box 108	Trinidad CO	81062	719-846-3091		peter.gintantak@state.ct.us	707183	Steiner ww	w	14Feb	14:47	3	1	X	15 Feb 2012	14 days	15 Feb 2012	2070 + 1/4-dioxane	1	1	
	200339402								Complaint	200339402	w	14Feb	06:30	2	1	X				Niss. bases			
											w	14Feb	14:47	1	3	X				Latin Am. Polym.			
											w	14Feb	14:47	6	8	X				SAR calc.			
											w	14Feb	14:47	6	8	X				Anim's			
											w	14Feb	14:47	6	8	X				TDS			
											w	14Feb	14:47	6	8	X				cond.			
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CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCC
Project Manager: ARW

Workorder No: 1202195
Initials: LAS Date: 2/16/12

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible ?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>X</u> < green pea ___ > green pea	N/A	YES	<input checked="" type="radio"/> NO *
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <input checked="" type="radio"/> #2 #4 RAD ONLY		<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>1.6</u>			
No. of custody seals on cooler: <u>1</u>			
External µR/hr reading: <u>14</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

*14 1202195-1-6 (705325 Ndsqka) for DISS. Gases arrived with headspace ≤ pea-size.

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 2/16/12

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002 Form 201r22.xls (6/1/09)

1202195

From: (719) 846-3091
Peter Gintautas
Colo. Oil & Gas Cons. Comm.
213 Conundrum RD
Trinidad, CO 81082



Origin ID: PUBA



J1210112190225

BILL SENDER

SHIP TO: (970) 490-1511
Amy Wolf
ALS Laboratory Group
225 COMMERCE DR
FORT COLLINS, CO 80524

Ship Date: 15FEB12
ActWgt 34.0 LB
CAD: 4076443/NET3250

Delivery Address Bar Code



Ref #
Invoice #
PO #
Dept #

Complaint: 200339399

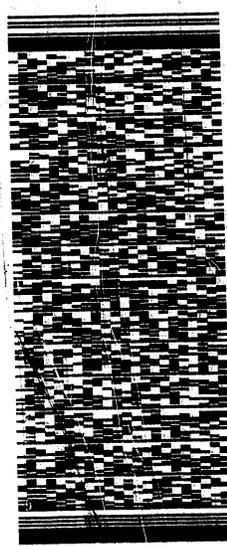
14

THU - 16 FEB A2
PRIORITY OVERNIGHT

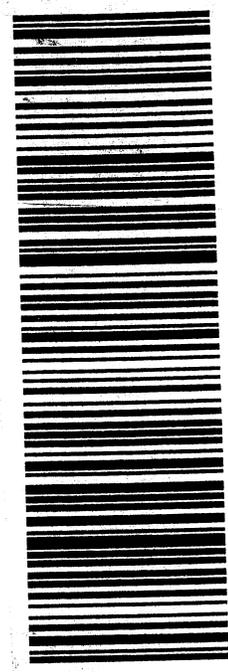
TRK# 7932 3213 0507
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80524
CO-US
DEN

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1.9



512G1BF58A278

Organic Carbon

Method EPA415.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: MO120221-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 21-Feb-12

Date Analyzed: 21-Feb-12

Prep Method: NONE

Prep Batch: MO120221-1

QCBatchID: MO120221-1-1

Run ID: mo120221-1a

Cleanup: NONE

Basis: N/A

File Name: 02211223

Sample Aliquot: 40 ml

Final Volume: 40 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-35-5	TOTAL ORGANIC CARBON	1	1	1	U	

Data Package ID: mo1202195-1

Organic Carbon

Method EPA415.1

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID:	705325 Nosaka WW
Lab ID:	1202195-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 14-Feb-12

Date Extracted: 21-Feb-12

Date Analyzed: 21-Feb-12

Prep Method: NONE

Prep Batch: MO120221-1

QCBatchID: MO120221-1-1

Run ID: mo120221-1a

Cleanup: NONE

Basis: As Received

File Name: 02211223

Analyst: Steven D. W

Sample Aliquot: 40 ML

Final Volume: 40 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-35-5	TOTAL ORGANIC CARBON	1	1.6	1		

Data Package ID: *mo1202195-1*

Organic Carbon

Method EPA415.1

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: MO120221-1LCS	Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 02/21/2012 Date Analyzed: 02/21/2012 Prep Method: NONE	Prep Batch: MO120221-1 QCBatchID: MO120221-1-1 Run ID: mo120221-1a Cleanup: NONE Basis: N/A File Name: 02211223	Sample Aliquot: 40 ml Final Volume: 40 ml Result Units: MG/L Clean DF: 1
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CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
10-35-5	TOTAL ORGANIC CARBON	15	16.3	1		108	85 - 115%

Lab ID: MO120221-1LCSD	Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 02/21/2012 Date Analyzed: 02/21/2012 Prep Method: NONE	Prep Batch: MO120221-1 QCBatchID: MO120221-1-1 Run ID: mo120221-1a Cleanup: NONE Basis: N/A File Name: 02211223	Sample Aliquot: 40 ml Final Volume: 40 ml Result Units: MG/L Clean DF: 1
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CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
10-35-5	TOTAL ORGANIC CARBON	15	15	1		100	20	8

Data Package ID: mo1202195-1