



# ALS Paragon



## Total Organic Carbon Case Narrative

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### Colorado Oil & Gas Conservation Commission

Complaint 200204501

Work Order Number: 0904037

1. This report consists of 1 water sample.
2. The sample was received cool and intact by ALS Paragon on 04/03/09.
3. The samples had been correctly preserved for the requested analysis.
4. The samples were prepared for analysis based on Methods for the Chemical Analysis of Waters and Wastes (MCAWW), May 1994 procedures.
5. The samples were 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 12
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.
  - n 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.

Since a sample from this Order Number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

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

Sharon J. Jobs  
Organics Primary Data Reviewer

4-8-09  
Date

Eric Bayless  
Organics Final Data Reviewer

4/8/09  
Date

# ALS Paragon

## Sample Number(s) Cross-Reference Table

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**Paragon OrderNum:** 0904037

**Client Name:** Colorado Oil & Gas Conservation Commission

**Client Project Name:** Complaint 200204501

**Client Project Number:**

**Client PO Number:** OE PHA 090000000004

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Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Dahl WW	0904037-1		WATER	02-Apr-09	12:18
Trip Blank	0904037-2		WATER	02-Apr-09	



**Paragon Analytics**

Workorder No: 09 04 037

Initials: LJO Date: 4/3/09

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

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

\*IR Gun #4: Oakton. SN 2372220101-0002



### **Inorganic 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.

# TOTAL ORGANIC CARBON

Method EPA415.1

Method Blank

Lab Name: ALS Paragon

Work Order Number: 0904037

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204501

Lab ID: MO090407-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: MO090407-1

QCBatchID: MO090407-1-1

Run ID: MO090407-1A

Cleanup: NONE

Basis: N/A

Sample Aliquot: 40 ml

Final Volume: 40 ml

Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
MO090407-1MB	4/7/2009	04/07/2009	N/A	1	1	1	U

## Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: MO0904037-1

Date Printed: Tuesday, April 07, 2009

ALS Paragon

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# TOTAL ORGANIC CARBON

Method EPA415.1

## Sample Results

Lab Name: ALS Paragon

Client Name: Colorado Oil & Gas Conservation Commission

Client Project ID: Complaint 200204501

Work Order Number: 0904037

Final Volume: 40 ml

Reporting Basis: As Received

Matrix: WATER

Prep Method: NONE

Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
Dahl WW	0904037-1	04/02/2009	04/07/2009	04/07/2009	N/A	1	1	1	U	40 ml

### Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: MO0904037-1

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# Organic Carbon

## Method EPA415.1

### Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Paragon

Work Order Number: 0904037

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204501

Lab ID: MO090407-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 04/07/2009

Date Analyzed: 04/07/2009

Prep Method: NONE

Prep Batch: MO090407-1

QCBatchID: MO090407-1-1

Run ID: MO090407-1A

Cleanup: NONE

Basis: N/A

File Name: 04071038

Sample Aliquot: 40 ml

Final Volume: 40 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
10-35-5	TOTAL ORGANIC CARBON	15	15.2	1		101	85 - 115%

Lab ID: MO090407-1LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 04/07/2009

Date Analyzed: 04/07/2009

Prep Method: NONE

Prep Batch: MO090407-1

QCBatchID: MO090407-1-1

Run ID: MO090407-1A

Cleanup: NONE

Basis: N/A

File Name: 04071038

Sample Aliquot: 40 ml

Final Volume: 40 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
10-35-5	TOTAL ORGANIC CARBON	15	15.2	1		101	20	0

Data Package ID: MO0904037-1

Date Printed: Tuesday, April 07, 2009

ALS Paragon

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