



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TX 77054  
(713) 660-0901

**Trace Analysis, Inc.**

Certificate of Analysis Number:

**08081221**

<b>Report To:</b>  Trace Analysis, Inc. Liz Givens 6701 Aberdeen Avenue Suite 9 Lubbock TX 79424- ph: (806) 794-1296      fax:	<b>Project Name:</b> 171111 <b>Site:</b> Lubbock, TX <b>Site Address:</b>  <b>PO Number:</b> <b>State:</b> Texas <b>State Cert. No.:</b> T104704205-06-TX <b>Date Reported:</b> 9/2/2008
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This Report Contains A Total Of 9 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

9/5/2008

Date





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**Certificate of Analysis Number:**

**08081221**

**Report To:** Trace Analysis, Inc.  
 Liz Givens  
 6701 Aberdeen Avenue  
 Suite 9  
 Lubbock  
 TX  
 79424-  
 ph: (806) 794-1296

fax: (806) 794-1298

**Project Name:** 171111  
**Site:** Lubbock, TX  
**Site Address:**

**PO Number:**  
**State:** Texas  
**State Cert. No.:** T104704205-06-TX

**Date Reported:** 9/2/2008

**Fax To:**

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
171111	08081221-01	Water	8/18/2008 2:00:00 PM	8/22/2008 9:30:00 AM		<input type="checkbox"/>
171300	08081221-02	Water	8/19/2008 10:48:00 AM	8/22/2008 9:30:00 AM		<input type="checkbox"/>
171303	08081221-03	Water	8/19/2008 12:46:00 PM	8/22/2008 9:30:00 AM		<input type="checkbox"/>

Erica Cardenas  
 Project Manager

9/5/2008

Date

Richard R. Reed  
 Laboratory Director

Ted Yen  
 Quality Assurance Officer



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Client Sample ID: 171111 Collected: 08/18/2008 14:00 SPL Sample ID: 08081221-01

Site: Lubbock, TX

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
<b>TOTAL ORGANIC CARBON (NPOC)</b>				<b>MCL</b>	<b>E415.1</b>	<b>Units: mg/L</b>	
Organic Carbon, Total	2.8		1	1	08/30/08 15:00	ESK	4654425

**Qualifiers:** ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)  
B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution  
\* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference  
J - Estimated Value between MDL and PQL  
E - Estimated Value exceeds calibration curve  
TNTC - Too numerous to count



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Client Sample ID: 171300

Collected: 08/19/2008 10:48

SPL Sample ID: 08081221-02

Site: Lubbock, TX

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
<b>TOTAL ORGANIC CARBON (NPOC)</b>				<b>MCL</b>	<b>E415.1</b>	<b>Units: mg/L</b>	
Organic Carbon, Total	2.08		1	1	08/30/08 15:00	ESK	4654428

**Qualifiers:**  
ND/U - Not Detected at the Reporting Limit  
B/V - Analyte detected in the associated Method Blank  
\* - Surrogate Recovery Outside Advisable QC Limits  
J - Estimated Value between MDL and PQL  
E - Estimated Value exceeds calibration curve  
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)  
D - Surrogate Recovery Unreportable due to Dilution  
MI - Matrix Interference



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Client Sample ID: 171303      Collected: 08/19/2008 12:46      SPL Sample ID: 08081221-03

Site: Lubbock, TX

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
<b>TOTAL ORGANIC CARBON (NPOC)</b>				<b>MCL</b>	<b>E415.1</b>	<b>Units: mg/L</b>	
Organic Carbon, Total	2.19		1	1	08/30/08 15:00	ESK	4654429

**Qualifiers:**      ND/U - Not Detected at the Reporting Limit      >MCL - Result Over Maximum Contamination Limit(MCL)  
B/V - Analyte detected in the associated Method Blank      D - Surrogate Recovery Unreportable due to Dilution  
\* - Surrogate Recovery Outside Advisable QC Limits      MI - Matrix Interference  
J - Estimated Value between MDL and PQL  
E - Estimated Value exceeds calibration curve  
TNTC - Too numerous to count

*Quality Control Documentation*



Quality Control Report

HOUSTON LABORATORY
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Trace Analysis, Inc.
171111

Analysis: Total Organic Carbon (NPOC)
Method: E415.1

WorkOrder: 08081221
Lab Batch ID: R249984

Method Blank

Samples in Analytical Batch:

RunID: TOC1\_080830E-4654421 Units: mg/L
Analysis Date: 08/30/2008 15:00 Analyst: ESK

Table with 2 columns: Lab Sample ID, Client Sample ID. Rows: 08081221-01A (171111), 08081221-02A (171300), 08081221-03A (171300)

Table with 3 columns: Analyte, Result, Rep Limit. Row: Organic Carbon, Total (ND, 1.0)

Laboratory Control Sample (LCS)

RunID: TOC1\_080830E-4654422 Units: mg/L
Analysis Date: 08/30/2008 15:00 Analyst: ESK

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Row: Organic Carbon, Total (4.000, 3.470, 86.75, 84, 116)

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08081221-01
RunID: TOC1\_080830E-4654426 Units: mg/L
Analysis Date: 08/30/2008 15:00 Analyst: ESK

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Row: Organic Carbon, Total (2.801, 2, 3.945, 57.20 \*, 2, 3.906, 55.25 \*, 0.9935, 20, 73, 125)

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL \* - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

*Sample Receipt Checklist  
And  
Chain of Custody*



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**Sample Receipt Checklist**

Workorder:	<b>08081221</b>	Received By:	<b>L_C</b>
Date and Time Received:	<b>8/22/2008 9:30:00 AM</b>	Carrier name:	<b>Fedex-Priority</b>
Temperature:	<b>4.0°C</b>	Chilled by:	<b>Water Ice</b>

- 1. Shipping container/cooler in good condition? Yes  No  Not Present
- 2. Custody seals intact on shipping container/cooler? Yes  No  Not Present
- 3. Custody seals intact on sample bottles? Yes  No  Not Present
- 4. Chain of custody present? Yes  No
- 5. Chain of custody signed when relinquished and received? Yes  No
- 6. Chain of custody agrees with sample labels? Yes  No
- 7. Samples in proper container/bottle? Yes  No
- 8. Sample containers intact? Yes  No
- 9. Sufficient sample volume for indicated test? Yes  No
- 10. All samples received within holding time? Yes  No
- 11. Container/Temp Blank temperature in compliance? Yes  No
- 12. Water - VOA vials have zero headspace? Yes  No  VOA Vials Not Present
- 13. Water - Preservation checked upon receipt (except VOA\*)? Yes  No  Not Applicable

\*VOA Preservation Checked After Sample Analysis

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SPL Representative:	<input type="text"/>	Contact Date & Time:	<input type="text"/>
Client Name Contacted:	<input type="text"/>		
Non Conformance Issues:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

