

## WORK ORDER Summary

Evergreen Analytical, Inc.

09-7170

To: Peter Gintautas

Email To: peter.gintautas@state.co.us

9/9/2009 1:18:17 PM

Colorado Oil & Gas Conservation  
Comm.

PO Box 108

Trinidad, CO 81082

(719) 846-3091

Client Project ID:

QC Level: LEVEL I+

Comments: EDD in COGCC format and PDF.

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
09-7170-01A	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	200.7_D *	200.7: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	3/02/10
09-7170-01A	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	200.8_D *	200.8: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	3/02/10
09-7170-01B	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	ANIONS_NonDW *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/05/09
09-7170-01B	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	C/A_BAL	Cation / Anion Balance calculation	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	
09-7170-01C	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	MEEP_W *	RSK175M: MEEP	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/17/09
09-7170-01D	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	8270_W *	8270C: BNA HSL	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/10/09
09-7170-01E	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	10/01/09
09-7170-01E	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	10/01/09
09-7170-01E	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/04/09
09-7170-01E	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/10/09
09-7170-01F	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	3/02/10
09-7170-01F	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	SAR_W	Sodium Adsorption Ratio for Water	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	3/02/10
09-7170-01G	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	8260_W *	8260B: VOA HSL	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/17/09
09-7170-01G	Meadows-Exterior	Drinking Water	9/03/09 1205	9/04/09	VOATICS	VOA TICS (Largest 10)	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/17/09
09-7170-02A	Damelil	Drinking Water	9/03/09 1255	9/04/09	200.7_D *	200.7: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	3/02/10
09-7170-02A	Damelil	Drinking Water	9/03/09 1255	9/04/09	200.8_D *	200.8: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	3/02/10
09-7170-02B	Damelil	Drinking Water	9/03/09 1255	9/04/09	ANIONS_NonDW *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/05/09
09-7170-02B	Damelil	Drinking Water	9/03/09 1255	9/04/09	C/A_BAL	Cation / Anion Balance calculation	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	
09-7170-02C	Damelil	Drinking Water	9/03/09 1255	9/04/09	MEEP_W *	RSK175M: MEEP	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/17/09
09-7170-02D	Damelil	Drinking Water	9/03/09 1255	9/04/09	8270_W *	8270C: BNA HSL	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/10/09

Definitions: \* - Test Code has a Select List

**WORK ORDER Summary****Evergreen Analytical, Inc.****09-7170****Rpt To:** Peter Gintautas**Email To:** peter.gintautas@state.co.us

9/9/2009 1:18:17 PM

Colorado Oil & Gas Conservation  
Comm.

PO Box 108

Trinidad, CO 81082

(719) 846-3091

**Client Project ID:****QC Level:** LEVEL 1+

09-7170-02E	Damelil	Drinking Water	9/03/09 1255	9/04/09	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	10/01/09
09-7170-02E	Damelil	Drinking Water	9/03/09 1255	9/04/09	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	10/01/09
09-7170-02E	Damelil	Drinking Water	9/03/09 1255	9/04/09	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/04/09
09-7170-02E	Damelil	Drinking Water	9/03/09 1255	9/04/09	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/10/09
09-7170-02F	Damelil	Drinking Water	9/03/09 1255	9/04/09	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	3/02/10
09-7170-02F	Damelil	Drinking Water	9/03/09 1255	9/04/09	SAR_W	Sodium Adsorption Ratio for Water	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	3/02/10
09-7170-02G	Damelil	Drinking Water	9/03/09 1255	9/04/09	8260_W *	8260B: VOA HSL	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/17/09
09-7170-02G	Damelil	Drinking Water	9/03/09 1255	9/04/09	VOATICS	VOA TICS (Largest 10)	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/17/09
09-7170-03A	Meadows-Interior	Drinking Water	9/03/09 1215	9/04/09	MEEP_W * ^	RSK175M: MEEP	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/17/09
09-7170-04A	Trip Blank	Trip Blank	9/03/09 0000	9/04/09	8260_W *	8260B: VOA HSL	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/17/09
09-7170-04A	Trip Blank	Trip Blank	9/03/09 0000	9/04/09	VOATICS	VOA TICS (Largest 10)	<input type="checkbox"/>	<input type="checkbox"/>	9/21/09	9/17/09

## CLIENT INFORMATION

## CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES AGREEMENT \*\*

Page 1 of 1

Mail **Original** Report to: Peter Gintautas

Attn: COGCC

Address

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Tel # Fax # 719-846-3384 E-mail Peter

**Evergreen Analytical, An Accutest Company**



4036 Youngfield St.  
Wheat Ridge, Colorado 80033

(303) 425-6021  
FAX (303) 425-6854

**FAX (303) 425-6854**

(877) 737-4521

info@evergreenanalytical.com

Report Results by: \_\_\_\_\_ (Date)\*

Standard 2 working weeks ☐

UST Analyses per Fee Schedule ☐

\* Rush: ☐ less than 24 hrs, 150% ☐ 1 - 2 work days, 100%

☐ 3 - 5 work days, 50%      ☐ 6 - 9 work days, 25%

\*Subject to surcharge & exceptions noted in fee schedule.

REPORT ALSO BY ☐ FAX ☐ PDF ☐ EDD

REPORT CHROMATOGRAMS: ☐ NO

**CONFIRMATION OF SAMPLE RECEIPT REQUIRED?** ☐ YES

Mail Invoice to: \_\_\_\_\_

Attn Peter Gintantas

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Tel # Fax # 719-846-3384

Project ID#

P.O. \_\_\_\_\_ Quote \_\_\_\_\_

Sampler Ch-3 Kay (Terracon)

**NOTE:** Identify Known Hazards Below

## SAMPLE

DATE \_\_\_\_\_

## IDENTIFICATION

SAMPLED TIME

[illegible]

Instructions: metals: filtered and acidified @ /ob (6020) reference #1909 and #2086 (CGCC)

**\*\* Important Note:** See reverse side for Terms and Conditions.

Anions: Bromide, Chloride, Nitrate, Nitrite, O-Phosphate, Sulfate (Circle)

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time: \_\_\_\_\_

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time	
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## CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES AGREEMENT \*\*

Page 1 of 1

## CLIENT INFORMATION

Mail Original Report to: Peter Gintautas

Alt                      LOGCC

**Address** \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Tel# Fax# 714-840-3304 E-mail Peter

**Evergreen Analytical, An Accutest Company**



4036 Youngfield St.  
Wheat Ridge, Colorado 80033  
(303) 425-8021  
FAX (303) 425-6854  
(877) 737-4521

**info@evergreenanalytical.com**

Report Results by: \_\_\_\_\_ (Date)\*

Standard 2 working weeks ☐**UST Analyses per Fee Schedule** ☐

\* Flush: ☐ less than 24 hrs, 150% ☐ 1-2 work days 100%

☐ 3 - 5 work days, 50%      ☐ 6 - 9 work days, 25%

\*Subject to surcharge & exceptions noted in fee schedule.

REPORT ALSO BY ☐ FAX ☐ PDF ☐ EDDREPORT CHROMATOGRAMS ☐ NO

**CONFIRMATION OF SAMPLE RECEIPT REQUIRED?** ☐ YES

**Mail Invoice to:**

Ann Peter Gintantas

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Tel # \_\_\_\_\_ Fax # 714-846-3388

Project ID#

P.O. \_\_\_\_\_ Office \_\_\_\_\_

Sampler 11.03 K.4 (Terracon)

**NOTE: Identify Known Hazards Below**

SAMPLE	. DATE
IDENTIFICATION .	SAMPLED TIME

MATRIX		ANALYSES (check analysis)		For Laboratory Use Only	
No. of Containers		1) Drinking Water or 2) Discharge Water or 3) Ground Water (circle one)		WQ #	
Soil / Solid / Air / Gas				B.O.F.#	
Oil / Sludge / Wipe				C/S (D)	
TCLP VOC/BNA/Pest/Herb/Metals (circle)				C/S M	7026/140
Volatile Organics 8260/824 (circle)	X			Temp. °C	3.5/100
Semi-volatile Organics BNA, PAH, PMA 8270/823 (circle)				Seals Present Y/N	NA
Chlorinated Pesticides 809/808 (circle)				Samples Pres Y/N	NA
Organophosphorous Pesticides 8270 PCBs/8082/808/Screen (circle)				Headspace Y/N	NA
Herbicides 8151				By	2
STEX 8021/802/8260/MTBE (circle)					
TVPH 8015 Mod. / 8260 (circle)					
TEPH 8015 Mod. (Desert)					
Total Metals-DW / NPDES / SW846 (circle & list metals below)	X				
Dissolved Metals DW / SW846 (circle & list metals below)	X				
Oil & Grease 1664 / 8071 (circle)	X				
TPRH 418.1	X				
Anions 300.0 (circle below) by IC	X				
RSKSOP-1754 HAZAR	X				
8070 SVOC by GC/MS	X				
Spec. Conductance @ 25°C	X				
Fluoride, E150.1 PH, TDS	X				
Sodium adsorption ratio water	X				
Anion - cation balance	X				

Damelli



Leadless well requires analysis for iodomethane  
tert-butanol  
Cr, Co, Cu, Fe, Li, Mg, Mn, Ni, K, Na, Sr, Zn  
Mo, Se, Ag, Te, U

PAB  
 4 Sept 2009

Instructions: metals: filtered and acidified  $\text{pH} \approx 2$  reference #1907 and #2086 (OGCC)

**\*\* Important Note:** See reverse side for Terms and Conditions.

Anions: Bromide, Chloride, Nitrate, Nitrite, D-Phosphate, Sulfate (Circle) **F**

Relinquished by: (Signature) 	Date/Time 7-4-09 / 11:28am	Received by: (Signature) 	Date/Time 7/4/9 / 1128A	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
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**Andrea**

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**From:** "Gintautas, Peter" <Peter.Gintautas@state.co.us>  
**To:** "Patty McClellan" <patty@evergreenanalytical.com>  
**Cc:** "Roy, Christopher M." <CMRoy@terracon.com>; <andrea@evergreenanalytical.com>  
**Sent:** Friday, September 04, 2009 1:09 PM  
**Attach:** meadows+ damelil COC.pdf  
**Subject:** VOC list must include iodomethane and if possible tertbutanol

Attached is the COC. I would prefer that a longer VOC list than the HSL list be performed for any samples submitted by me. We need to have more heavy aromatics included on the VOA list and up to naphthalene.

Also there should have been a trip blank provided to Terracon and returned with these samples.

Complaint 20026988

8260+TICs including iodomethane to MDL and some kind of scan for tert-butanol

8260 trip blank

**Peter Gintautas**

Environmental Protection Specialist  
Colorado Oil and Gas Conservation Commission

719-846-3091

719-679-1326 (cell)

719-846-3384 (fax)

[colorado.gov/cogcc](http://colorado.gov/cogcc)

[peter.gintautas@state.co.us](mailto:peter.gintautas@state.co.us)

9/4/2009

**Evergreen Analytical, Inc.**

**Date:** 24-Sep-09

**Lab Order:** 09-7170

**Client Project ID** Meadows Damelio

## **CASE NARRATIVE**

### **SAMPLE RECEIVING**

Samples were hand delivered by the Client. Custody seals were not present.

The temperature of the sample(s) upon arrival was 3.5°C.

Sample(s) were received in good condition, in the proper container, and within holding times.

Sample(s) were preserved properly.

VOC sample(s) were marked as preserved on the bottle labels.

VOC sample(s) were received with no headspace present. PM for JD/JE

### **QUALITY ASSURANCE (QA)**

Analyses performed on samples in this work order by EAL meet the requirements of the EAL Quality Assurance Program unless otherwise explained. Analyses of drinking water samples meet the requirements of the EPA Manual for the Certification of Laboratories Analyzing Drinking Water, unless otherwise explained. Analyses of RCRA samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained. JE/TP

### **CLIENT SERVICES**

The COC was faxed to the client for additional test verification. There are no other anomalies to report. PM

### **GENERAL CHEMISTRY**

There are no anomalies to report. MM

### **METALS ANALYSIS**

Method E200.7 Dissolved: Copper was detected in the method blank (MB) at 1.8 mg/L. This amount was not subtracted from the sample results. Since the bias for Copper is high and the samples are non-detect for this analyte, no further action is required. The laboratory control spike (LCS) recovery of Copper is below QC limits. The recoveries of Copper for the matrix spike and matrix spike duplicate (MS/MSD; on another client's sample) are within QC limits, proving the analysis is in control. The MS and MSD recoveries of Calcium, Magnesium, and Sodium are below the QC limits due to the high concentration of Calcium, Magnesium, and Sodium in the sample versus the low concentration of the spike. The laboratory control spike (LCS) recoveries of these analytes are within QC limits, proving the analysis is in control. The MS and MSD recoveries of Strontium are below QC limits. The recovery of Strontium for the laboratory control spike (LCS) is within QC limits, proving the analysis is in control. There are no other anomalies to report. JE

**Evergreen Analytical, Inc.****Date:** 24-Sep-09**Lab Order:** 09-7170**Client Project ID** Meadows Damelio**CASE NARRATIVE**

Method E200.7 Total: The matrix spike and matrix spike duplicate (MS/MSD; on another client's sample) recoveries of Calcium and Sodium are below the QC limits due to the high concentration of Calcium and Sodium in the sample versus the low concentration of the spike. The laboratory control spike (LCS) recoveries of these analytes are within QC limits, proving the analysis is in control. There are no other anomalies to report. JE

**GAS CHROMATOGRAPHY**

Method RSK175: There are no anomalies to report. AS

**GAS CHROMATOGRAPHY/MASS SPECTROMETRY**

Method 8270\_W: There are no anomalies to report. TMB

Method 8260\_W: The laboratory control spike (LCS) and matrix spike (MS; on the client's sample) recoveries of Carbon Tetrachloride are above the QC limits. Since the bias is high and the sample is non-detect for this analyte, no further action is required. The matrix spike and matrix spike duplicate (MS/MSD) showed no recoveries of 2-Chloroethylvinylether due to the acid preservation in the sample, which destroys this compound. There are no other anomalies to report. DC/JE

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**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

**Client Sample ID:** Meadows-Exterior  
**Client Project ID:** Meadows Damelio  
**Date Collected:** 9/3/09  
**Date Received:** 9/4/09

**Lab Work Order:** 09-7170  
**Lab Sample ID:** 09-7170-01  
**Sample Matrix:** Drinking Water

**DISSOLVED METALS**

**Method: E200.7, Rev. 4.4**

**Prep Method: E200.7/SW3010A**

**Date Prepared:** 9/10/09  
**Date Analyzed:** 9/11/09

**Lab File ID:** 091009pm  
**Method Blank:** MB-20725

**Dilution Factor:** 1  
**Lab Fraction ID:** 09-7170-01A

Analytes	CAS Number	Result	LQL	Units
Barium	7440-39-3	0.212	0.00200	mg/L
Beryllium	7440-41-7	0.000471	0.000450	mg/L
Boron	7440-42-8	U	0.0200	mg/L
Calcium	7440-70-2	14.9	0.387	mg/L
Chromium	7440-47-3	U	0.0100	mg/L
Cobalt	7440-48-4	U	0.00500	mg/L
Iron	7439-89-6	U	0.0700	mg/L
Lithium	7439-93-2	0.00566	0.00200	mg/L
Magnesium	7439-95-4	1.86	0.150	mg/L
Manganese	7439-96-5	U	0.00500	mg/L
Nickel	7440-02-0	U	0.0300	mg/L
Potassium	7440-09-7	0.887	0.340	mg/L
Sodium	7440-23-5	97.6	0.400	mg/L
Strontium	7440-24-6	0.470	0.000500	mg/L
Zinc	7440-66-6	U	0.0300	mg/L

**Date Prepared:** 9/10/09  
**Date Analyzed:** 9/15/09

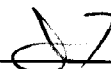
**Lab File ID:** 091409AM  
**Method Blank:** MB-20725

**Dilution Factor:** 1  
**Lab Fraction ID:** 09-7170-01A

Analytes	CAS Number	Result	LQL	Units
Copper	7440-50-8	U	0.00500	mg/L



Analyst



Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 9/24/2009



009

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Meadows-Exterior  
Client Project ID: Meadows Damelio  
Date Collected: 9/3/09  
Date Received: 9/4/09

Lab Work Order: 09-7170  
Lab Sample ID: 09-7170-01  
Sample Matrix: Drinking Water

**DISSOLVED METALS**

Method: E200.8

Prep Method: E200.8

Date Prepared: 9/15/09  
Date Analyzed: 9/16/09

Lab File ID: 091609AQ\09-7170-01A.18  
Method Blank: MB-20790

Dilution Factor: 1  
Lab Fraction ID: 09-7170-01A

Analytes	CAS Number	Result	LQL	Units
Antimony	7440-36-0	U	0.00200	mg/L
Arsenic	7440-38-2	U	0.00200	mg/L
Cadmium	7440-43-9	U	0.000500	mg/L
Molybdenum	7439-98-7	U	0.00500	mg/L
Selenium	7782-49-2	U	0.00200	mg/L
Silver	7440-22-4	U	0.000200	mg/L
Thallium	7440-28-0	U	0.00100	mg/L
Uranium	7440-61-1	U	0.00100	mg/L

Date Prepared: 9/15/09  
Date Analyzed: 9/17/09

Lab File ID: 091709AQ\09-7170-01A.15  
Method Blank: MB-20790

Dilution Factor: 1  
Lab Fraction ID: 09-7170-01A

Analytes	CAS Number	Result	LQL	Units
Lead	7439-92-1	U	0.00100	mg/L

**DISSOLVED METALS**

Method: SW6010B

Prep Method: E200.7/SW3010A


Date Prepared: 9/8/09  
Date Analyzed: 9/17/09

Lab File ID: 091709AM  
Method Blank: MB-20695

Dilution Factor: 1  
Lab Fraction ID: 09-7170-01F

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	14	0.39	mg/L
Magnesium	7439-95-4	1.8	0.15	mg/L
Potassium	7440-09-7	1.0	0.34	mg/L
Sodium	7440-23-5	99	0.40	mg/L

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 9/24/2009

010

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

**Client Sample ID:** Meadows-Exterior  
**Client Project ID:** Meadows Damelio  
**Date Collected:** 9/3/09  
**Date Received:** 9/4/09

**Lab Work Order:** 09-7170  
**Lab Sample ID:** 09-7170-01  
**Sample Matrix:** Drinking Water

**SODIUM ADSORPTION RATIO**

**Method:** USDA

**Prep Method:**

**Date Prepared:** 9/8/09  
**Date Analyzed:** 9/17/09

**Dilution Factor:** 1  
**Lab Fraction ID:** 09-7170-01F

Analytes	CAS Number	Result	LQL	Units
Sodium-Adsorption-Ratio		6.6	0.10	ratio



**Analyst**



**Approved**

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 9/24/2009

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Damelil  
Client Project ID: Meadows Damelio  
Date Collected: 9/3/09  
Date Received: 9/4/09

Lab Work Order: 09-7170  
Lab Sample ID: 09-7170-02  
Sample Matrix: Drinking Water

## DISSOLVED METALS

Method: E200.7, Rev. 4.4

Prep Method: E200.7/SW3010A

Date Prepared: 9/10/09

Lab File ID: 091009pm

Dilution Factor: 1

Date Analyzed: 9/11/09

Method Blank: MB-20725

Lab Fraction ID: 09-7170-02A

Analytes	CAS Number	Result	LQL	Units
Barium	7440-39-3	0.0736	0.00200	mg/L
Beryllium	7440-41-7	U	0.000450	mg/L
Boron	7440-42-8	U	0.0200	mg/L
Calcium	7440-70-2	67.8	0.387	mg/L
Chromium	7440-47-3	U	0.0100	mg/L
Cobalt	7440-48-4	U	0.00500	mg/L
Iron	7439-89-6	U	0.0700	mg/L
Lithium	7439-93-2	U	0.00200	mg/L
Magnesium	7439-95-4	16.2	0.150	mg/L
Manganese	7439-96-5	0.349	0.00500	mg/L
Nickel	7440-02-0	U	0.0300	mg/L
Potassium	7440-09-7	1.40	0.340	mg/L
Sodium	7440-23-5	51.9	0.400	mg/L
Strontium	7440-24-6	1.29	0.000500	mg/L
Zinc	7440-66-6	U	0.0300	mg/L

Date Prepared: 9/10/09

Lab File ID: 091409AM

Dilution Factor: 1

Date Analyzed: 9/15/09

Method Blank: MB-20725

Lab Fraction ID: 09-7170-02A

Analytes	CAS Number	Result	LQL	Units
Copper	7440-50-8	U	0.00500	mg/L

Analyst

Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 9/24/2009

012

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Damelil  
Client Project ID: Meadows Damelio  
Date Collected: 9/3/09  
Date Received: 9/4/09

Lab Work Order: 09-7170  
Lab Sample ID: 09-7170-02  
Sample Matrix: Drinking Water

**DISSOLVED METALS**

Method: E200.8

Prep Method: E200.8

Date Prepared: 9/15/09  
Date Analyzed: 9/16/09

Lab File ID: 091609AQ\09-7170-02A.19  
Method Blank: MB-20790

Dilution Factor: 1  
Lab Fraction ID: 09-7170-02A

Analytes	CAS Number	Result	LQL	Units
Antimony	7440-36-0	U	0.00200	mg/L
Arsenic	7440-38-2	U	0.00200	mg/L
Cadmium	7440-43-9	U	0.000500	mg/L
Molybdenum	7439-98-7	U	0.00500	mg/L
Selenium	7782-49-2	U	0.00200	mg/L
Silver	7440-22-4	U	0.000200	mg/L
Thallium	7440-28-0	U	0.00100	mg/L
Uranium	7440-61-1	U	0.00100	mg/L

Date Prepared: 9/15/09  
Date Analyzed: 9/17/09

Lab File ID: 091709AQ\09-7170-02A.16  
Method Blank: MB-20790

Dilution Factor: 1  
Lab Fraction ID: 09-7170-02A

Analytes	CAS Number	Result	LQL	Units
Lead	7439-92-1	U	0.00100	mg/L

**DISSOLVED METALS**

Method: SW6010B

Prep Method: E200.7/SW3010A

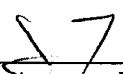
Date Prepared: 9/8/09  
Date Analyzed: 9/17/09

Lab File ID: 091709AM  
Method Blank: MB-20695

Dilution Factor: 1  
Lab Fraction ID: 09-7170-02F

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	65	0.39	mg/L
Magnesium	7439-95-4	16	0.15	mg/L
Potassium	7440-09-7	1.6	0.34	mg/L
Sodium	7440-23-5	55	0.40	mg/L

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 9/24/2009

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

013

**Client Sample ID:** Damelil  
**Client Project ID:** Meadows Damelio  
**Date Collected:** 9/3/09  
**Date Received:** 9/4/09

**Lab Work Order:** 09-7170  
**Lab Sample ID:** 09-7170-02  
**Sample Matrix:** Drinking Water

**SODIUM ADSORPTION RATIO**

**Method:** USDA

**Prep Method:**

**Date Prepared:** 9/8/09  
**Date Analyzed:** 9/17/09

**Dilution Factor:** 1  
**Lab Fraction ID:** 09-7170-02F

Analytes	CAS Number	Result	LQL	Units
Sodium-Adsorption-Ratio		1.6	0.10	ratio



**Analyst**



**Approved**

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 9/24/2009

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

014

**Client Sample ID:** Meadows-Exterior  
**Client Project ID:**  
**Date Collected:** 9/3/09 1205  
**Date Received:** 9/4/09

**Lab Work Order:** 09-7170  
**Lab Sample ID:** 09-7170-01  
**Sample Matrix:** Drinking Water

**ANIONS BY IC**

**Method:** E300.0

**Prep Method:**


**Date Prepared:** 9/4/09  
**Date Analyzed:** 9/4/09 1308

**Lab File ID:** 09  
**Method Blank:** MB 09/04/09

**Dilution Factor:** 1  
**Lab Fraction ID:** 09-7170-01B

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	13.0	0.50	mg/L
Nitrite		U	0.20	mg/L
Bromide	7647-15-6	U	0.20	mg/L
Nitrate		U	0.20	mg/L
o-Phosphate	7778-77-0	U	0.20	mg/L
Sulfate	7778-80-2	2.23	0.50	mg/L

  
\_\_\_\_\_  
**Analyst**

  
\_\_\_\_\_  
**Approved**

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 9/8/09

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Damelio  
Client Project ID:  
Date Collected: 9/3/09 1255  
Date Received: 9/4/09

Lab Work Order: 09-7170  
Lab Sample ID: 09-7170-02  
Sample Matrix: Drinking Water

## ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 9/4/09  
Date Analyzed: 9/4/09 1323

Lab File ID: 12  
Method Blank: MB 09/04/09

Dilution Factor: 1  
Lab Fraction ID: 09-7170-02B

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	22.0	0.50	mg/L
Nitrite		U	0.20	mg/L
Bromide	7647-15-6	0.201	0.20	mg/L
Nitrate		U	0.20	mg/L
o-Phosphate	7778-77-0	U	0.20	mg/L


Date Prepared: 9/4/09  
Date Analyzed: 9/4/09 1409

Lab File ID: 13  
Method Blank: MB 09/04/09

Dilution Factor: 2  
Lab Fraction ID: 09-7170-02B

Analytes	CAS Number	Result	LQL	Units
Sulfate	7778-80-2	70.0	1.0	mg/L

  
Analyst

  
Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value, Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 9/8/09

# ACCUTEST MOUNTAIN STATES LABORATORY

4036 Youngfield St., Wheat Ridge, CO 80033  
(303)425-6021

## Anion-Cation (Ion) Balance - Method 1030, Standard Methods, 20th Ed.

EAL Sample ID	09-7170-01		09-7170-02		09-		09-		09-	
Client Sample ID	Meadows-Exterior		Damelio							
Sample Result	mg/L	Meq/L	mg/L	Meq/L	mg/L	Meq/L	mg/L	Meq/L	mg/L	Meq/L
<i>Anions</i>										
Cl	12.958	0.365	22.0377	0.622		0.000		0.000		0.000
SO <sub>4</sub>	2.2295	0.046	70.0206	1.458		0.000		0.000		0.000
HCO <sub>3</sub> as CaCO <sub>3</sub>	216	4.316	233	4.656		0.000		0.000		0.000
CO <sub>3</sub> as CaCO <sub>3</sub>		0.000		0.000		0.000		0.000		0.000
NO <sub>3</sub>		0.000		0.000		0.000		0.000		0.000
NO <sub>3</sub> as N		0.000		0.000		0.000		0.000		0.000
Other		0.000		0.000		0.000		0.000		0.000
<b>Anions Total</b>		4.728		6.735		0.000		0.000		0.000
<i>Cations</i>										
Ca	15	0.749	68	3.393		0.000		0.000		0.000
Mg	2	0.156	16.0	1.317		0.000		0.000		0.000
K	0.9	0.023	1	0.036		0.000		0.000		0.000
Na	98	4.263	52	2.262		0.000		0.000		0.000
Other		0.000		0.000		0.000		0.000		0.000
<b>Cations Total</b>		5.190		7.007		0.000		0.000		0.000
<b>Ion Balance</b>										
<b>% Difference</b>	<b>4.66</b>		<b>1.98</b>							

$$\% \text{ difference} = 100 \times \frac{(\text{sum cations} - \text{sum anions})}{(\text{sum cations} + \text{sum anions})}$$



Approved



**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

**Client Sample ID:** Meadows-Exterior  
**Client Project ID:**  
**Date Collected:** 9/3/09  
**Date Received:** 9/4/09

**Lab Work Order:** 09-7170  
**Lab Sample ID:** 09-7170-01  
**Sample Matrix:** Drinking Water

**RSKSOP-175M HEADSPACE**

**Method:** RSKSOP175M

**Prep Method:** RSKSOP175M

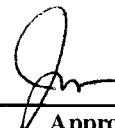
**Date Prepared:** 9/4/09  
**Date Analyzed:** 9/4/09

**Lab File ID:** FB492  
**Method Blank:** GB090409

**Dilution Factor:** 5  
**Lab Fraction ID:** 09-7170-01C

Analytes	CAS Number	Result	LQL	Units
Ethane	74-84-0	U	0.0080	mg/L
Ethene	74-85-1	U	0.012	mg/L
Methane	74-82-8	2.3	0.0040	mg/L

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 H - Sample analysis exceeded analytical holding time  
 J - Indicates an estimated value when the compound is detected, but is below the LQL  
 S - Spike Recovery outside accepted limits  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
 LQL - Lower Quantitation Limit  
 Surr - Surrogate

Print Date: 09/08/09

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Damelio  
Client Project ID:  
Date Collected: 9/3/09  
Date Received: 9/4/09

Lab Work Order: 09-7170  
Lab Sample ID: 09-7170-02  
Sample Matrix: Drinking Water

## RSKSOP-175M HEADSPACE

Method: RSKSOP175M

Prep Method: RSKSOP175M

Date Prepared: 9/4/09  
Date Analyzed: 9/4/09

Lab File ID: FB494  
Method Blank: GB090409

Dilution Factor: 1  
Lab Fraction ID: 09-7170-02C

Analytes	CAS Number	Result	LQL	Units
Ethane	74-84-0	U	0.0016	mg/L
Ethene	74-85-1	U	0.0024	mg/L
Methane	74-82-8	0.047	0.00080	mg/L

AS

Analyst

Jm

Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 09/08/09

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

**Client Sample ID:** Meadows-Interior  
**Client Project ID:**  
**Date Collected:** 9/3/09  
**Date Received:** 9/4/09

**Lab Work Order:** 09-7170  
**Lab Sample ID:** 09-7170-03  
**Sample Matrix:** Drinking Water

**RSKSOP-175M HEADSPACE**

**Method:** RSKSOP175M

**Prep Method:** RSKSOP175M


**Date Prepared:** 9/4/09  
**Date Analyzed:** 9/4/09

**Lab File ID:** FB496  
**Method Blank:** GB090409

**Dilution Factor:** 5  
**Lab Fraction ID:** 09-7170-03A

Analytes	CAS Number	Result	LQL	Units
Ethane	74-84-0	U	0.0080	mg/L
Ethene	74-85-1	U	0.012	mg/L
Methane	74-82-8	1.7	0.0040	mg/L

  
 Analyst

  
 Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 H - Sample analysis exceeded analytical holding time  
 J - Indicates an estimated value when the compound is detected, but is below the LQL  
 S - Spike Recovery outside accepted limits  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
 LQL - Lower Quantitation Limit  
 Surr - Surrogate

Print Date: 09/08/09

020

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

**Client Sample ID:** Meadows-Exterior  
**Client Project ID:**  
**Date Collected:** 9/3/09  
**Date Received:** 9/4/09  
**Date Prepared:** 9/9/09  
**Date Analyzed:** 9/12/09  
**Percent Moisture:** NA

**Lab Work Order:** 09-7170  
**Lab Sample ID:** 09-7170-01D  
**Sample Matrix:** Drinking Water  
**Lab File ID:** 091109\IG02904.D  
**Method Blank:** MB-20706  
**Prep Factor:** 0.001  
**Dilution Factor:** 1.00

**Method:** SW8270C  
**Prep Method:** SW3520C

**SEMIVOLATILE ORGANICS**

			Units: µg/L
Analytes	CAS Number	Result	LQL
Acenaphthene	83-32-9	U	1.0
Acenaphthylene	208-96-8	U	1.0
Anthracene	120-12-7	U	1.3
Benzo(a)anthracene	56-55-3	U	1.0
Benzo(b&k)fluoranthene	205-99-2 & 207-08-9	U	2.0
Benzoic acid	65-85-0	U	5.0
Benzo(g,h,i)perylene	191-24-2	U	2.0
Benzo(a)pyrene	50-32-8	U	1.0
Benzyl alcohol	100-51-6	U	5.0
4-Bromophenyl phenyl ether	101-55-3	U	5.0
Butyl benzyl phthalate	85-68-7	U	1.1
4-Chloroaniline	106-47-8	U	1.0
Bis(2-chloroethoxy)methane	111-91-1	U	5.0
Bis(2-chloroethyl)ether	111-44-4	U	1.0
4-Chloro-3-methylphenol	59-50-7	U	5.0
2-Chloronaphthalene	91-58-7	U	5.0
2-Chlorophenol	95-57-8	U	1.5
4-Chlorophenyl phenyl ether	7005-72-3	U	5.0
Chrysene	218-01-9	U	1.0
Dibenz(a,h)anthracene	53-70-3	U	2.0
Dibenzofuran	132-64-9	U	5.0
Di-n-butyl phthalate	84-74-2	U	1.3
1,2-Dichlorobenzene	95-50-1	U	1.0
1,3-Dichlorobenzene	541-73-1	U	1.0
1,4-Dichlorobenzene	106-46-7	U	1.0
3,3'-Dichlorobenzidine	91-94-1	U	1.0
Dichlorodiisopropyl ether	108-60-1	U	5.0
2,4-Dichlorophenol	120-83-2	U	2.0
Diethyl phthalate	84-66-2	44	5.0
2,4-Dimethylphenol	105-67-9	U	1.0
Dimethyl phthalate	131-11-3	U	5.0
4,6-Dinitro-2-methylphenol	534-52-1	U	2.0
2,4-Dinitrophenol	51-28-5	U	5.0
2,4-Dinitrotoluene	121-14-2	U	1.0
2,6-Dinitrotoluene	606-20-2	U	5.0
Di-n-octyl phthalate	117-84-0	U	1.8
Bis(2-ethylhexyl)phthalate	117-81-7	U	1.5
Fluoranthene	206-44-0	U	1.2
Fluorene	86-73-7	U	1.4
Hexachlorobenzene	118-74-1	U	5.0



Analyst



Approved

**Qualifiers:** See case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Prep or Analytical holding time exceeded  
S - Spike Recovery outside acceptance limits  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Qualifiers:** U - Analyte not detected at or above the reporting limit  
J - Estimated value below the LQL

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
MDL - Method Detection Limit  
Surr - Surrogate Standard

Print Date: 9/14/09

Evergreen Analytical, Inc.  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

021

Client Sample ID: Meadows-Exterior  
Client Project ID:  
Date Collected: 9/3/09  
Date Received: 9/4/09  
Date Prepared: 9/9/09  
Date Analyzed: 9/12/09  
Percent Moisture: NA

Lab Work Order: 09-7170  
Lab Sample ID: 09-7170-01D  
Sample Matrix: Drinking Water  
Lab File ID: 091109\1G02904.D  
Method Blank: MB-20706  
Prep Factor: 0.001  
Dilution Factor: 1.00

Method: SW8270C

SEMIVOLATILE ORGANICS

Prep Method: SW3520C

			Units: µg/L
Analytes	CAS Number	Result	LQL
Hexachlorobutadiene	87-68-3	U	1.0
Hexachlorocyclopentadiene	77-47-4	U	5.0
Hexachloroethane	67-72-1	U	1.0
Indeno(1,2,3-cd)pyrene	193-39-5	U	2.0
Isophorone	78-59-1	U	1.0
2-Methylnaphthalene	91-57-6	U	5.0
2-Methylphenol	95-48-7	U	5.0
4-Methylphenol	106-44-5	U	2.0
Naphthalene	91-20-3	U	1.0
2-Nitroaniline	88-74-4	U	5.0
3-Nitroaniline	99-09-2	U	5.0
4-Nitroaniline	100-01-6	U	5.0
Nitrobenzene	98-95-3	U	1.0
2-Nitrophenol	88-75-5	U	5.0
4-Nitrophenol	100-02-7	U	1.1
N-Nitrosodi-n-propylamine	621-64-7	U	2.0
N-Nitrosodiphenylamine	86-30-6	U	1.0
Pentachlorophenol	87-86-5	U	5.0
Phenanthrene	85-01-8	U	5.0
Phenol	108-95-2	U	5.0
Pyrene	129-00-0	U	1.0
1,2,4-Trichlorobenzene	120-82-1	U	5.0
2,4,5-Trichlorophenol	95-95-4	U	1.5
2,4,6-Trichlorophenol	88-06-2	U	2.0
Surr: 2,4,6-Tribromophenol	118-79-6	77	QC Limits: 32-138 %REC
Surr: 2-Fluorobiphenyl	321-60-8	80	QC Limits: 45-130 %REC
Surr: 2-Fluorophenol	367-12-4	83	QC Limits: 43-130 %REC
Surr: Nitrobenzene-d5	4165-60-0	81	QC Limits: 45-130 %REC
Surr: Phenol-d6	13127-88-3	83	QC Limits: 47-130 %REC
Surr: Terphenyl-d14	1718-51-0	84	QC Limits: 47-136 %REC

Analyst

Approved

Qualifiers: See case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Prep or Analytical holding time exceeded  
S - Spike Recovery outside acceptance limits  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Qualifiers: U - Analyte not detected at or above the reporting limit

J - Estimated value below the LQL

Definitions: NA - Not Applicable  
LQL - Lower Quantitation Limit  
MDL - Method Detection Limit  
Surr - Surrogate Standard

Print Date: 9/14/09

Data File : D:\MSDCHEM\1\DATA\091109\1G02904.D

Vial: 39

Acq On : 12 Sep 2009 6:22 pm

Operator: TAMIB

Sample : 09-7170-01D

Inst : GCMS1

Misc : ,SAMP,8270\_W,1,1OP701,E1G95,1000,,,1,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Sep 14 16:42 2009

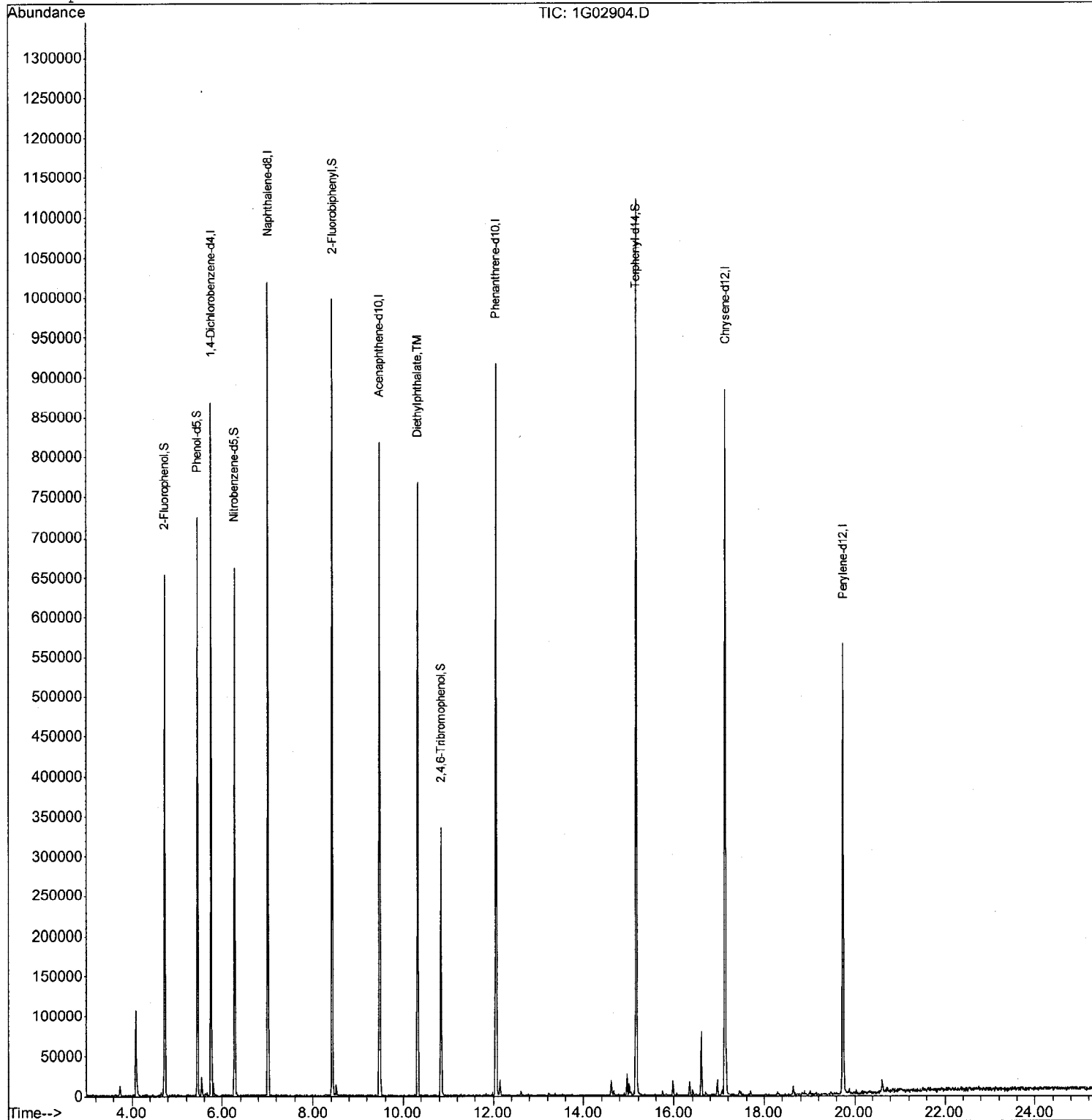
Quant Results File: BNAE1G95.RES

Method : D:\MSDCHEM\1\METHODS\BNAE1G95.M (RTE Integrator)

Title : 8270C Calibration

Last Update : Mon Sep 14 10:31:13 2009

Response via : Initial Calibration



<b>Client Sample ID:</b> Dameli <b>Client Project ID:</b> <b>Date Collected:</b> 9/3/09 <b>Date Received:</b> 9/4/09 <b>Date Prepared:</b> 9/9/09 <b>Date Analyzed:</b> 9/12/09 <b>Percent Moisture:</b> NA	<b>Lab Work Order:</b> 09-7170 <b>Lab Sample ID:</b> 09-7170-02D <b>Sample Matrix:</b> Drinking Water <b>Lab File ID:</b> 091109\1G02905.D <b>Method Blank:</b> MB-20706 <b>Prep Factor:</b> 0.001 <b>Dilution Factor:</b> 1.00
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**Method: SW8270C**

**SEMIVOLATILE ORGANICS**

**Prep Method: SW3520C**

			Units: µg/L
Analytes	CAS Number	Result	LQL
Acenaphthene	83-32-9	U	1.0
Acenaphthylene	208-96-8	U	1.0
Anthracene	120-12-7	U	1.3
Benzo(a)anthracene	56-55-3	U	1.0
Benzo(b&k)fluoranthene	205-99-2 & 207-08-9	U	2.0
Benzoic acid	65-85-0	U	5.0
Benzo(g,h,i)perylene	191-24-2	U	2.0
Benzo(a)pyrene	50-32-8	U	1.0
Benzyl alcohol	100-51-6	U	5.0
4-Bromophenyl phenyl ether	101-55-3	U	5.0
Butyl benzyl phthalate	85-68-7	U	1.1
4-Chloroaniline	106-47-8	U	1.0
Bis(2-chloroethoxy)methane	111-91-1	U	5.0
Bis(2-chloroethyl)ether	111-44-4	U	1.0
4-Chloro-3-methylphenol	59-50-7	U	5.0
2-Chloronaphthalene	91-58-7	U	5.0
2-Chlorophenol	95-57-8	U	1.5
4-Chlorophenyl phenyl ether	7005-72-3	U	5.0
Chrysene	218-01-9	U	1.0
Dibenz(a,h)anthracene	53-70-3	U	2.0
Dibenzofuran	132-64-9	U	5.0
Di-n-butyl phthalate	84-74-2	U	1.3
1,2-Dichlorobenzene	95-50-1	U	1.0
1,3-Dichlorobenzene	541-73-1	U	1.0
1,4-Dichlorobenzene	106-46-7	U	1.0
3,3'-Dichlorobenzidine	91-94-1	U	1.0
Dichlorodiisopropyl ether	108-60-1	U	5.0
2,4-Dichlorophenol	120-83-2	U	2.0
Diethyl phthalate	84-66-2	U	5.0
2,4-Dimethylphenol	105-67-9	U	1.0
Dimethyl phthalate	131-11-3	U	5.0
4,6-Dinitro-2-methylphenol	534-52-1	U	2.0
2,4-Dinitrophenol	51-28-5	U	5.0
2,4-Dinitrotoluene	121-14-2	U	1.0
2,6-Dinitrotoluene	606-20-2	U	5.0
Di-n-octyl phthalate	117-84-0	U	1.8
Bis(2-ethylhexyl)phthalate	117-81-7	U	1.5
Fluoranthene	206-44-0	U	1.2
Fluorene	86-73-7	U	1.4
Hexachlorobenzene	118-74-1	U	5.0



Analyst



Approved

**Qualifiers: See case narrative for a discussion**

B - Analyte detected in the Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 H - Prep or Analytical holding time exceeded  
 S - Spike Recovery outside acceptance limits  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Qualifiers:** U - Analyte not detected at or above the reporting limit

J - Estimated value below the LQL

**Definitions:** NA - Not Applicable

LQL - Lower Quantitation Limit

MDL - Method Detection Limit

Surr - Surrogate Standard

Print Date: 9/14/09

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

**Client Sample ID:** Damell  
**Client Project ID:**  
**Date Collected:** 9/3/09  
**Date Received:** 9/4/09  
**Date Prepared:** 9/9/09  
**Date Analyzed:** 9/12/09  
**Percent Moisture:** NA

**Lab Work Order:** 09-7170  
**Lab Sample ID:** 09-7170-02D  
**Sample Matrix:** Drinking Water  
**Lab File ID:** 091109\1G02905.D  
**Method Blank:** MB-20706  
**Prep Factor:** 0.001  
**Dilution Factor:** 1.00

**Method:** SW8270C

**SEMIVOLATILE ORGANICS**

**Prep Method:** SW3520C

			Units: µg/L
Analytes	CAS Number	Result	LQL
Hexachlorobutadiene	87-68-3	U	1.0
Hexachlorocyclopentadiene	77-47-4	U	5.0
Hexachloroethane	67-72-1	U	1.0
Indeno(1,2,3-cd)pyrene	193-39-5	U	2.0
Isophorone	78-59-1	U	1.0
2-Methylnaphthalene	91-57-6	U	5.0
2-Methylphenol	95-48-7	U	5.0
4-Methylphenol	106-44-5	U	2.0
Naphthalene	91-20-3	U	1.0
2-Nitroaniline	88-74-4	U	5.0
3-Nitroaniline	99-09-2	U	5.0
4-Nitroaniline	100-01-6	U	5.0
Nitrobenzene	98-95-3	U	1.0
2-Nitrophenol	88-75-5	U	5.0
4-Nitrophenol	100-02-7	U	1.1
N-Nitrosodi-n-propylamine	621-64-7	U	2.0
N-Nitrosodiphenylamine	86-30-6	U	1.0
Pentachlorophenol	87-86-5	U	5.0
Phenanthrene	85-01-8	U	5.0
Phenol	108-95-2	U	5.0
Pyrene	129-00-0	U	1.0
1,2,4-Trichlorobenzene	120-82-1	U	5.0
2,4,5-Trichlorophenol	95-95-4	U	1.5
2,4,6-Trichlorophenol	88-06-2	U	2.0
Surr: 2,4,6-Tribromophenol	118-79-6	84	QC Limits: 32-138 %REC
Surr: 2-Fluorobiphenyl	321-60-8	90	QC Limits: 45-130 %REC
Surr: 2-Fluorophenol	367-12-4	92	QC Limits: 43-130 %REC
Surr: Nitrobenzene-d5	4165-60-0	92	QC Limits: 45-130 %REC
Surr: Phenol-d6	13127-88-3	95	QC Limits: 47-130 %REC
Surr: Terphenyl-d14	1718-51-0	88	QC Limits: 47-136 %REC



Analyst



Approved

**Qualifiers:** See case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 H - Prep or Analytical holding time exceeded  
 S - Spike Recovery outside acceptance limits  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Qualifiers:** U - Analyte not detected at or above the reporting limit

J - Estimated value below the LQL

**Definitions:** NA - Not Applicable  
 LQL - Lower Quantitation Limit  
 MDL - Method Detection Limit  
 Surr - Surrogate Standard

Print Date: 9/14/09



Data File : D:\MSDCHEM\1\DATA\091109\1G02905.D

Vial: 40

Acq On : 12 Sep 2009 7:01 pm

Operator: TAMIB

Sample : 09-7170-02D

Inst : GCMS1

Misc : ,SAMP,8270\_W,1,1OP701,E1G95,1000,,,1,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Sep 14 16:43 2009

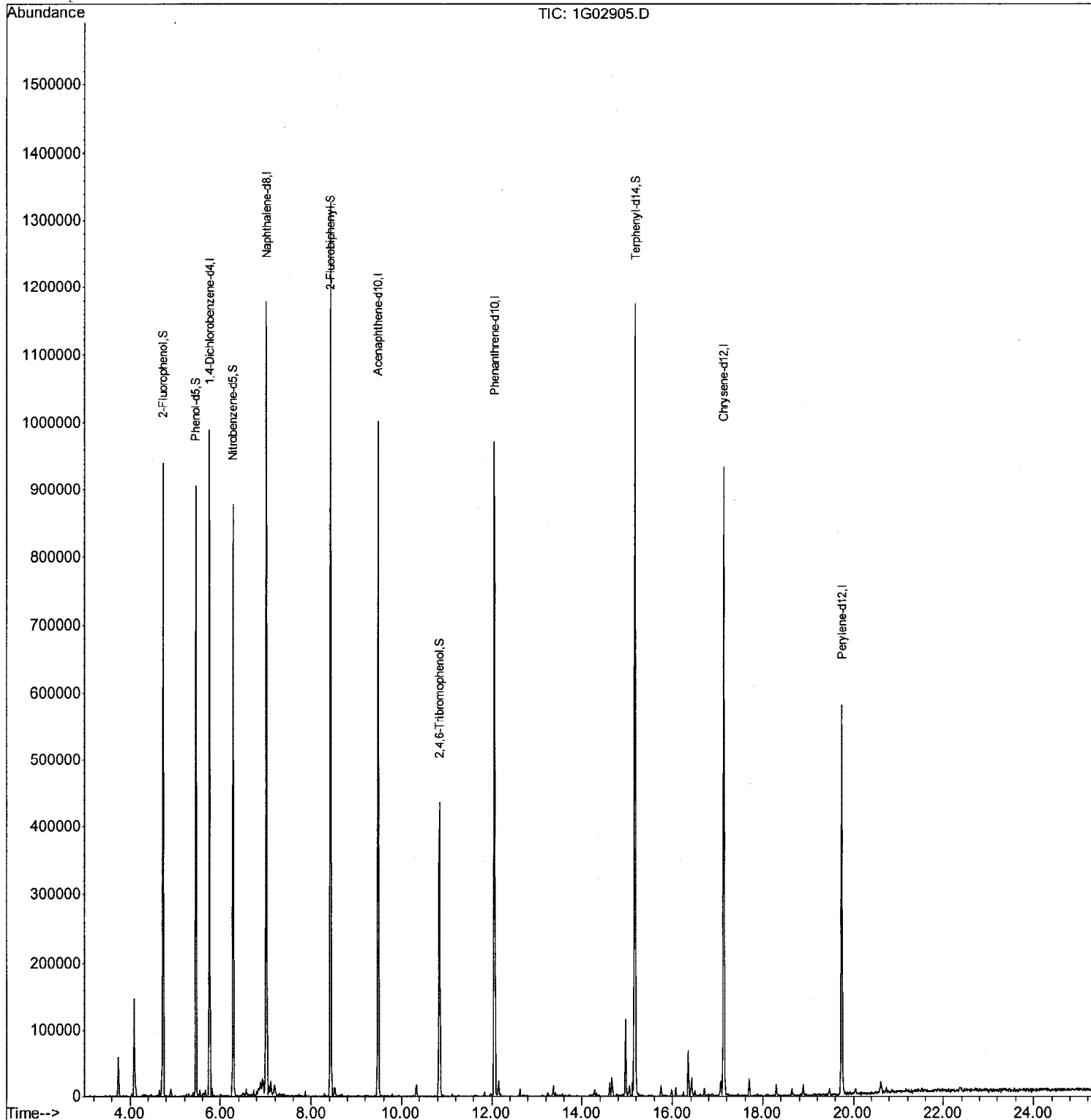
Quant Results File: BNAE1G95.RES

Method : D:\MSDCHEM\1\METHODS\BNAE1G95.M (RTE Integrator)

Title : 8270C Calibration

Last Update : Mon Sep 14 10:31:13 2009

Response via : Initial Calibration



026

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

**Client Sample ID:** Meadows-Exterior  
**Client Project ID:**  
**Date Collected:** 9/3/09 1205  
**Date Received:** 9/4/09

**Lab Work Order:** 09-7170  
**Lab Sample ID:** 09-7170-01  
**Sample Matrix:** Drinking Water

**ALKALINITY**

**Method:** SM2320B

**Prep Method:**

**Date Prepared:** 9/14/09  
**Date Analyzed:** 9/14/09

**Lab File ID:** 3  
**Method Blank:** MBLK 091409

**Dilution Factor:** 1  
**Lab Fraction ID:** 09-7170-01E

Analytes	CAS Number	Result	LQL	Units
Total Alkalinity		216	5.0	mg/L CaCO <sub>3</sub>

**SPECIFIC CONDUCTANCE @ 25°C**

**Method:** SM2510 B

**Prep Method:**

**Date Prepared:** 9/11/09  
**Date Analyzed:** 9/11/09

**Lab File ID:** 96

**Dilution Factor:** 1  
**Lab Fraction ID:** 09-7170-01E

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		412	1.00	µmhos/cm

**FLUORIDE**

**Method:** SM 4500-F C

**Prep Method:**

**Date Prepared:** 9/14/09  
**Date Analyzed:** 9/14/09

**Lab File ID:** 51  
**Method Blank:** MBLK 09/14/09

**Dilution Factor:** 1  
**Lab Fraction ID:** 09-7170-01E

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	3.3	0.20	mg/L

**E150.1 PH**

**Method:** E150.1

**Prep Method:**

**Date Prepared:** 9/4/09  
**Date Analyzed:** 9/4/09 1155

**Dilution Factor:** 1  
**Lab Fraction ID:** 09-7170-01E

Analytes	CAS Number	Result	LQL	Units
pH		7.93	1.00	pH Units

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 9/14/2009

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

**Client Sample ID:** Meadows-Exterior  
**Client Project ID:**  
**Date Collected:** 9/3/09 1205  
**Date Received:** 9/4/09

**Lab Work Order** 09-7170  
**Lab Sample ID:** 09-7170-01  
**Sample Matrix:** Drinking Water

**TOTAL DISSOLVED SOLIDS (TDS)**

**Method:** SM 2540C

**Prep Method:**

**Date Prepared:** 9/8/09

**Lab File ID:** 108

**Dilution Factor:** 1

**Date Analyzed:** 9/8/09

**Method Blank:** MBLK 9/8/09

**Lab Fraction ID:** 09-7170-01E

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		382	10.0	mg/L

  
 Analyst

  
 Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 H - Sample analysis exceeded analytical holding time  
 J - Indicates an estimated value when the compound is detected, but is below the LQL  
 S - Spike Recovery outside accepted limits  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
 LQL - Lower Quantitation Limit  
 Surr - Surrogate

Print Date: 9/14/2009

028

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Damelil  
Client Project ID:  
Date Collected: 9/3/09 1255  
Date Received: 9/4/09

Lab Work Order 09-7170  
Lab Sample ID: 09-7170-02  
Sample Matrix: Drinking Water

**ALKALINITY**

Method: SM2320B

Prep Method:

Date Prepared: 9/14/09

Lab File ID: 4

Dilution Factor: 1

Date Analyzed: 9/14/09

Method Blank: MBLK 091409

Lab Fraction ID: 09-7170-02E

Analytes	CAS Number	Result	LQL	Units
Total Alkalinity		233	5.0	mg/L CaCO <sub>3</sub>

**SPECIFIC CONDUCTANCE @ 25°C**

Method: SM2510 B

Prep Method:

Date Prepared: 9/11/09

Lab File ID: 97

Dilution Factor: 1

Date Analyzed: 9/11/09

Lab Fraction ID: 09-7170-02E

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		573	1.00	µmhos/cm

**FLUORIDE**

Method: SM 4500-F C

Prep Method:

Date Prepared: 9/14/09

Lab File ID: 55

Dilution Factor: 1

Date Analyzed: 9/14/09

Method Blank: MBLK 09/14/09

Lab Fraction ID: 09-7170-02E

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	0.66	0.20	mg/L

**E150.1 PH**

Method: E150.1

Prep Method:

Date Prepared: 9/4/09

Dilution Factor: 1

Date Analyzed: 9/4/09 1155

Lab Fraction ID: 09-7170-02E

Analytes	CAS Number	Result	LQL	Units
pH		7.33	1.00	pH Units

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
II - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 9/14/2009

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

029

Client Sample ID: Damelil  
Client Project ID:  
Date Collected: 9/3/09 1255  
Date Received: 9/4/09

Lab Work Order 09-7170  
Lab Sample ID: 09-7170-02  
Sample Matrix: Drinking Water

**TOTAL DISSOLVED SOLIDS (TDS)**

Method: SM 2540C

Prep Method:

Date Prepared: 9/8/09  
Date Analyzed: 9/8/09

Lab File ID: 109  
Method Blank: MBLK 9/8/09

Dilution Factor: 1  
Lab Fraction ID: 09-7170-02E

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		378	10.0	mg/L

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 9/14/2009

030

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

**Client Sample ID:** Meadows-Exterior  
**Client Project ID:**  
**Date Collected:** 09/03/09  
**Date Received:** 09/04/09  
**Date Prepared:** 09/15/09  
**Date Analyzed:** 09/15/09  
**Percent Moisture** NA

**Lab Work Order** 09-7170  
**Lab Sample ID:** 09-7170-01G  
**Sample Matrix:** Drinking Water  
**Lab File ID:** 5V02477.D  
**Method Blank:** MB1,W  
**Prep Factor:** 1.000  
**Dilution Factor:** 1.00

**Method:** SW8260B  
**Prep Method:** SW5030B

**VOLATILE ORGANICS**

Analytes	CAS Number	Result	Units: µg/L LQL
Acetone	67-64-1	U	10
Benzene	71-43-2	U	1.0
Bromodichloromethane	75-27-4	U	2.0
Bromoform	75-25-2	U	4.0
Bromomethane	74-83-9	U	4.0
2-Butanone	78-93-3	U	5.0
Carbon disulfide	75-15-0	U	2.0
Carbon tetrachloride	56-23-5	U	2.0
Chlorobenzene	108-90-7	U	2.0
Chloroethane	75-00-3	U	4.0
2-Chloroethylvinylether	110-75-8	U	4.0
Chloroform	67-66-3	U	2.0
Chloromethane	74-87-3	U	4.0
Dibromochloromethane	124-48-1	U	2.0
1,2-Dichlorobenzene	95-50-1	U	2.0
1,3-Dichlorobenzene	541-73-1	U	2.0
1,4-Dichlorobenzene	106-46-7	U	2.0
1,1-Dichloroethane	75-34-3	U	2.0
1,2-Dichloroethane	107-06-2	U	2.0
1,1-Dichloroethene	75-35-4	U	2.0
cis-1,2-Dichloroethene	156-59-2	U	2.0
trans-1,2-Dichloroethene	156-60-5	U	2.0
1,2-Dichloropropane	78-87-5	U	2.0
cis-1,3-Dichloropropene	10061-01-5	U	2.0
trans-1,3-Dichloropropene	10061-02-6	U	2.0
Ethylbenzene	100-41-4	U	2.0

  
\_\_\_\_\_  
**Analyst**

  
\_\_\_\_\_  
**Approved**

**Qualifiers:** See the case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Prep or Analytical holding time exceeded  
S - Spike Recovery outside acceptance limits  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Qualifiers:** U - Analyte not detected at or above the reporting limit

J - Estimated value below the LQL

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
MDL - Method Detection Limit  
Surr - Surrogate Standard

Print Date: 09/17/09

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Meadows-Exterior

Client Project ID:

Date Collected: 09/03/09

Date Received: 09/04/09

Date Prepared: 09/15/09

Date Analyzed: 09/15/09

Percent Moisture NA

Lab Work Order 09-7170

Lab Sample ID: 09-7170-01G

Sample Matrix: Drinking Water

Lab File ID: 5V02477.D

Method Blank: MB1,W

Prep Factor: 1.000

Dilution Factor: 1.00


Method: SW8260B

## VOLATILE ORGANICS

Prep Method: SW5030B

Analytes	CAS Number	Result	Units: µg/L LQL
2-Hexanone	591-78-6	U	2.0
Methylene chloride	75-09-2	U	5.0
4-Methyl-2-pentanone	108-10-1	U	2.0
Styrene	100-42-5	U	4.0
1,1,2,2-Tetrachloroethane	79-34-5	U	2.0
Tetrachloroethene	127-18-4	U	2.0
Toluene	108-88-3	U	2.0
1,1,1-Trichloroethane	71-55-6	U	2.0
1,1,2-Trichloroethane	79-00-5	U	2.0
Trichloroethene	79-01-6	U	2.0
Vinyl acetate	108-05-4	U	4.0
Vinyl chloride	75-01-4	U	2.0
Xylene, Total	1330-20-7	U	4.0
Surr: 1,2-Dichloroethane-d4	17060-07-0	102	QC Limits: 70-130 %REC
Surr: 4-Bromofluorobenzene	460-00-4	91	QC Limits: 70-130 %REC
Surr: Toluene-d8	2037-26-5	98	QC Limits: 70-130 %REC

  
Analyst

  
Approved

### Qualifiers: See the case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Prep or Analytical holding time exceeded  
S - Spike Recovery outside acceptance limits  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Qualifiers: U - Analyte not detected at or above the reporting limit

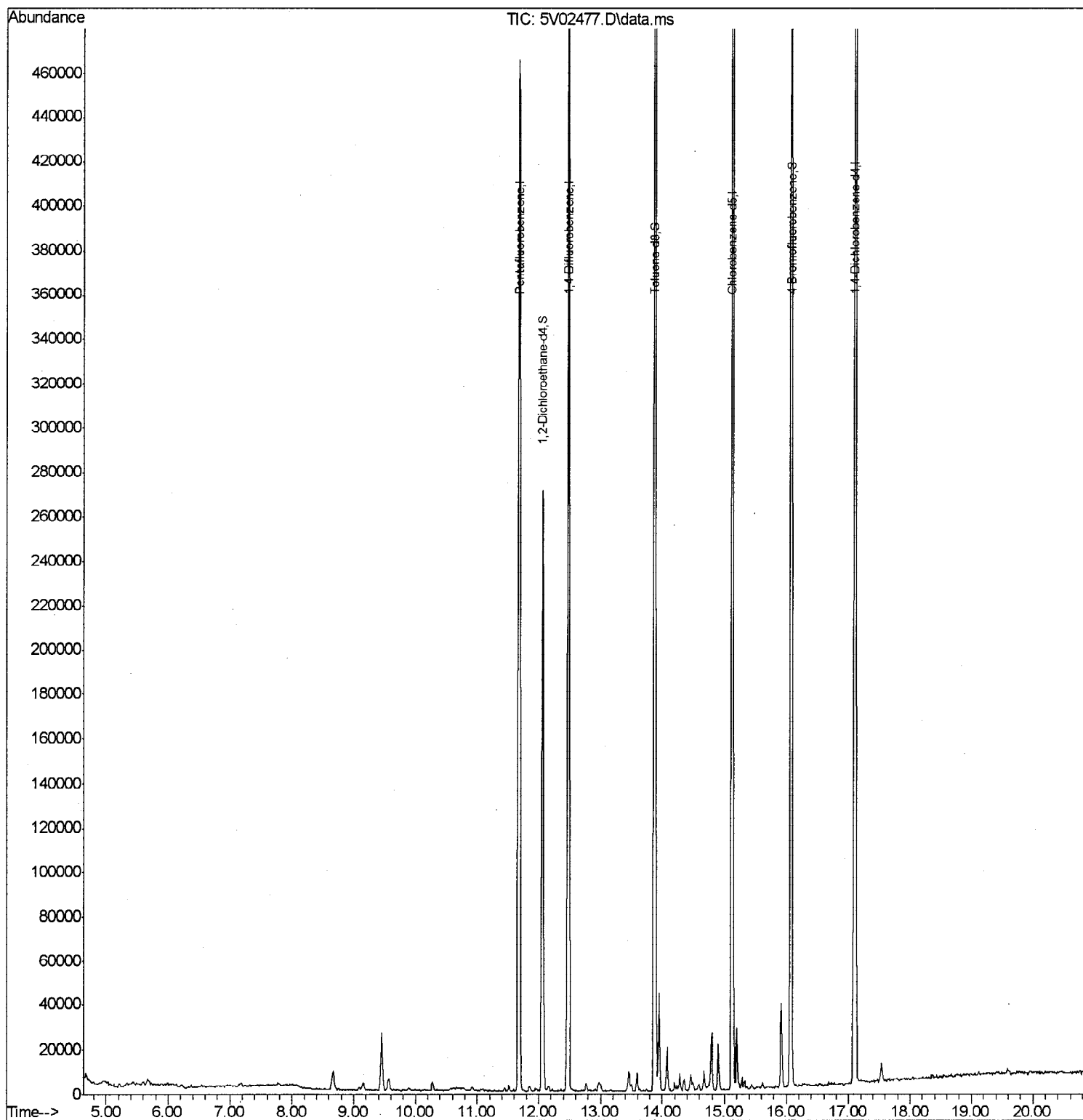
J - Estimated value below the LQL

Definitions: NA - Not Applicable  
LQL - Lower Quantitation Limit  
MDL - Method Detection Limit  
Surr - Surrogate Standard

Print Date: 09/17/09

Data Path : C:\msdchem\1\DATA\V5091509.S\  
Data File : 5V02477.D  
Acq On : 15 Sep 2009 3:37 pm  
Operator : DONC  
Sample : 09-7170-01G  
Misc : ,SAMP,8260\_W,1,MS329,V5V104,,,,,1  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 13:11:54 2009  
Quant Method : C:\msdchem\1\METHODS\V5hs1103tvh097.M  
Quant Title : 8260  
QLast Update : Wed Sep 16 13:51:21 2009  
Response via : Initial Calibration



9/17/09



Data Path : C:\msdchem\1\DATA\V5091509.S\  
Data File : 5V02477.D  
Acq On : 15 Sep 2009 3:37 pmm  
Operator : DONCC  
Sample : 09-7170-01GG  
Misc : ,SAMP,8260\_W,1,MS329,V5V104,,,,,11  
ALS Vial : 7 Sample Multiplier: 11

Quant Method : C:\msdchem\1\METHODS\V5hsl1103tvh097.MM  
Quant Title : 82600

TIC Library : C:\DATABASE\NIST98.LL  
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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---Internal Standard---

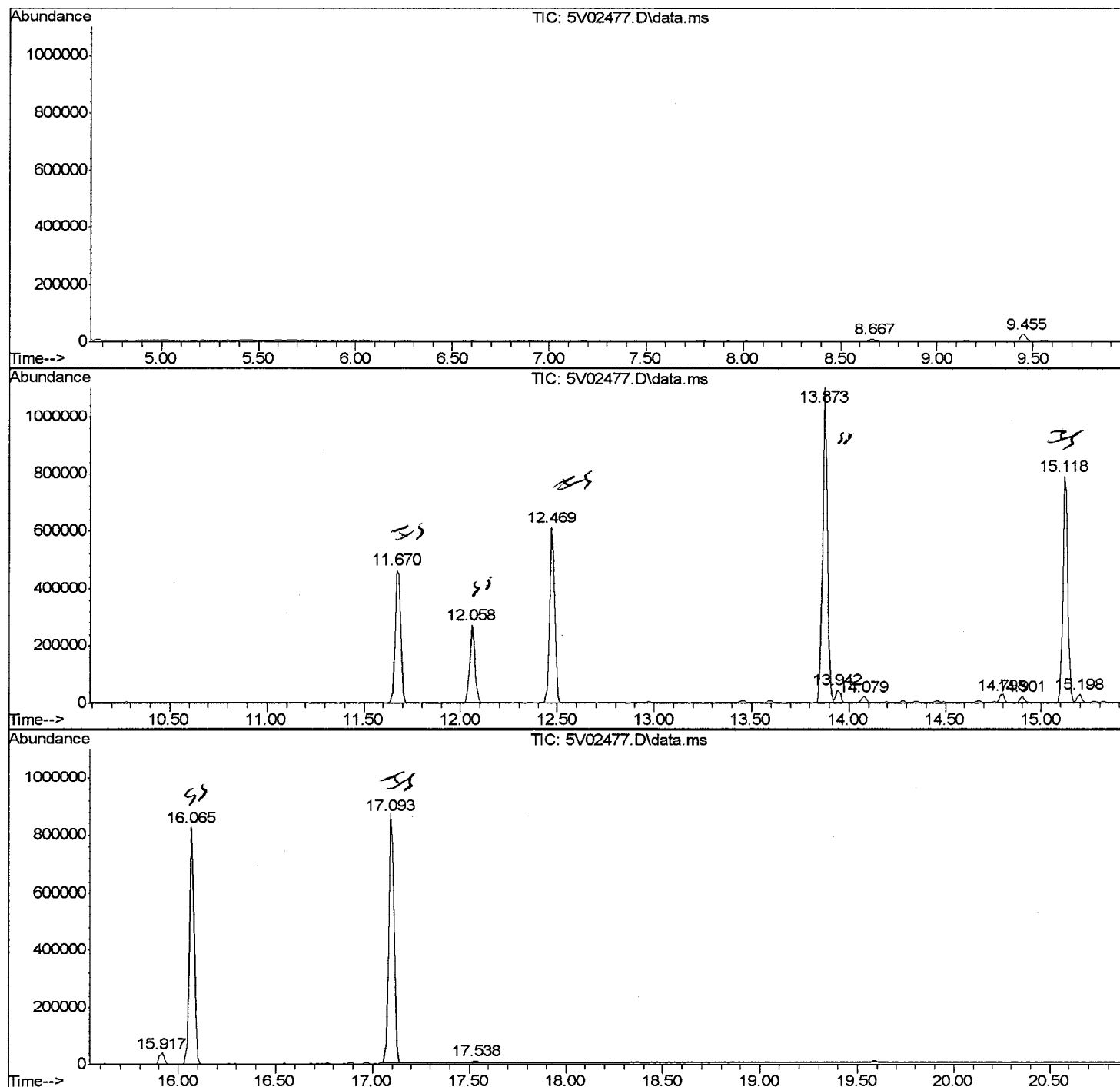
No Library Search Compounds Detected

\*\*\*\*\*

Data Path : C:\msdchem\1\DATA\V5091509.S\  
Data File : 5V02477.D  
Acq On : 15 Sep 2009 3:37 pm  
Operator : DONC  
Sample : 09-7170-01G  
Misc : ,SAMP,8260\_W,1,MS329,V5V104,,,,,1  
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\V5hsl103tvh097.M  
Quant Title : 8260

TIC Library : C:\DATABASE\NIST98.L  
TIC Integration Parameters: LSCINT.P



**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

035

**Client Sample ID:** Damelil  
**Client Project ID:**  
**Date Collected:** 09/03/09  
**Date Received:** 09/04/09  
**Date Prepared:** 09/15/09  
**Date Analyzed:** 09/15/09  
**Percent Moisture** NA

**Lab Work Order** 09-7170  
**Lab Sample ID:** 09-7170-02G  
**Sample Matrix:** Drinking Water  
**Lab File ID:** 5V02478.D  
**Method Blank:** MB1, W  
**Prep Factor:** 1.000  
**Dilution Factor:** 1.00

**Method: SW8260B**  
**Prep Method: SW5030B**

**VOLATILE ORGANICS**

Analytes	CAS Number	Result	Units: µg/L LQL
Acetone	67-64-1	U	10
Benzene	71-43-2	U	1.0
Bromodichloromethane	75-27-4	U	2.0
Bromoform	75-25-2	U	4.0
Bromomethane	74-83-9	U	4.0
2-Butanone	78-93-3	U	5.0
Carbon disulfide	75-15-0	U	2.0
Carbon tetrachloride	56-23-5	U	2.0
Chlorobenzene	108-90-7	U	2.0
Chloroethane	75-00-3	U	4.0
2-Chloroethylvinylether	110-75-8	U	4.0
Chloroform	67-66-3	U	2.0
Chloromethane	74-87-3	U	4.0
Dibromochloromethane	124-48-1	U	2.0
1,2-Dichlorobenzene	95-50-1	U	2.0
1,3-Dichlorobenzene	541-73-1	U	2.0
1,4-Dichlorobenzene	106-46-7	U	2.0
1,1-Dichloroethane	75-34-3	U	2.0
1,2-Dichloroethane	107-06-2	U	2.0
1,1-Dichloroethene	75-35-4	U	2.0
cis-1,2-Dichloroethene	156-59-2	U	2.0
trans-1,2-Dichloroethene	156-60-5	U	2.0
1,2-Dichloropropane	78-87-5	U	2.0
cis-1,3-Dichloropropene	10061-01-5	U	2.0
trans-1,3-Dichloropropene	10061-02-6	U	2.0
Ethylbenzene	100-41-4	U	2.0

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

**Qualifiers:** See the case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Prep or Analytical holding time exceeded  
S - Spike Recovery outside acceptance limits  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Qualifiers:** U - Analyte not detected at or above the reporting limit

J - Estimated value below the LQL

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
MDL - Method Detection Limit  
Surr - Surrogate Standard

Print Date: 09/17/09

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

036

Client Sample ID: Damelil  
Client Project ID:  
Date Collected: 09/03/09  
Date Received: 09/04/09  
Date Prepared: 09/15/09  
Date Analyzed: 09/15/09  
Percent Moisture NA

Lab Work Order 09-7170  
Lab Sample ID: 09-7170-02G  
Sample Matrix: Drinking Water  
Lab File ID: 5V02478.D  
Method Blank: MB1,W  
Prep Factor: 1.000  
Dilution Factor: 1.00

Method: SW8260B  
Prep Method: SW5030B

**VOLATILE ORGANICS**

Analytes	CAS Number	Result	Units: µg/L LQL
2-Hexanone	591-78-6	U	2.0
Methylene chloride	75-09-2	U	5.0
4-Methyl-2-pentanone	108-10-1	U	2.0
Styrene	100-42-5	U	4.0
1,1,2,2-Tetrachloroethane	79-34-5	U	2.0
Tetrachloroethene	127-18-4	U	2.0
Toluene	108-88-3	U	2.0
1,1,1-Trichloroethane	71-55-6	U	2.0
1,1,2-Trichloroethane	79-00-5	U	2.0
Trichloroethene	79-01-6	U	2.0
Vinyl acetate	108-05-4	U	4.0
Vinyl chloride	75-01-4	U	2.0
Xylene, Total	1330-20-7	U	4.0
Surr: 1,2-Dichloroethane-d4	17060-07-0	97	QC Limits: 70-130 %REC
Surr: 4-Bromofluorobenzene	460-00-4	84	QC Limits: 70-130 %REC
Surr: Toluene-d8	2037-26-5	90	QC Limits: 70-130 %REC

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

**Qualifiers:** See the case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Prep or Analytical holding time exceeded  
S - Spike Recovery outside acceptance limits  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Qualifiers:** U - Analyte not detected at or above the reporting limit

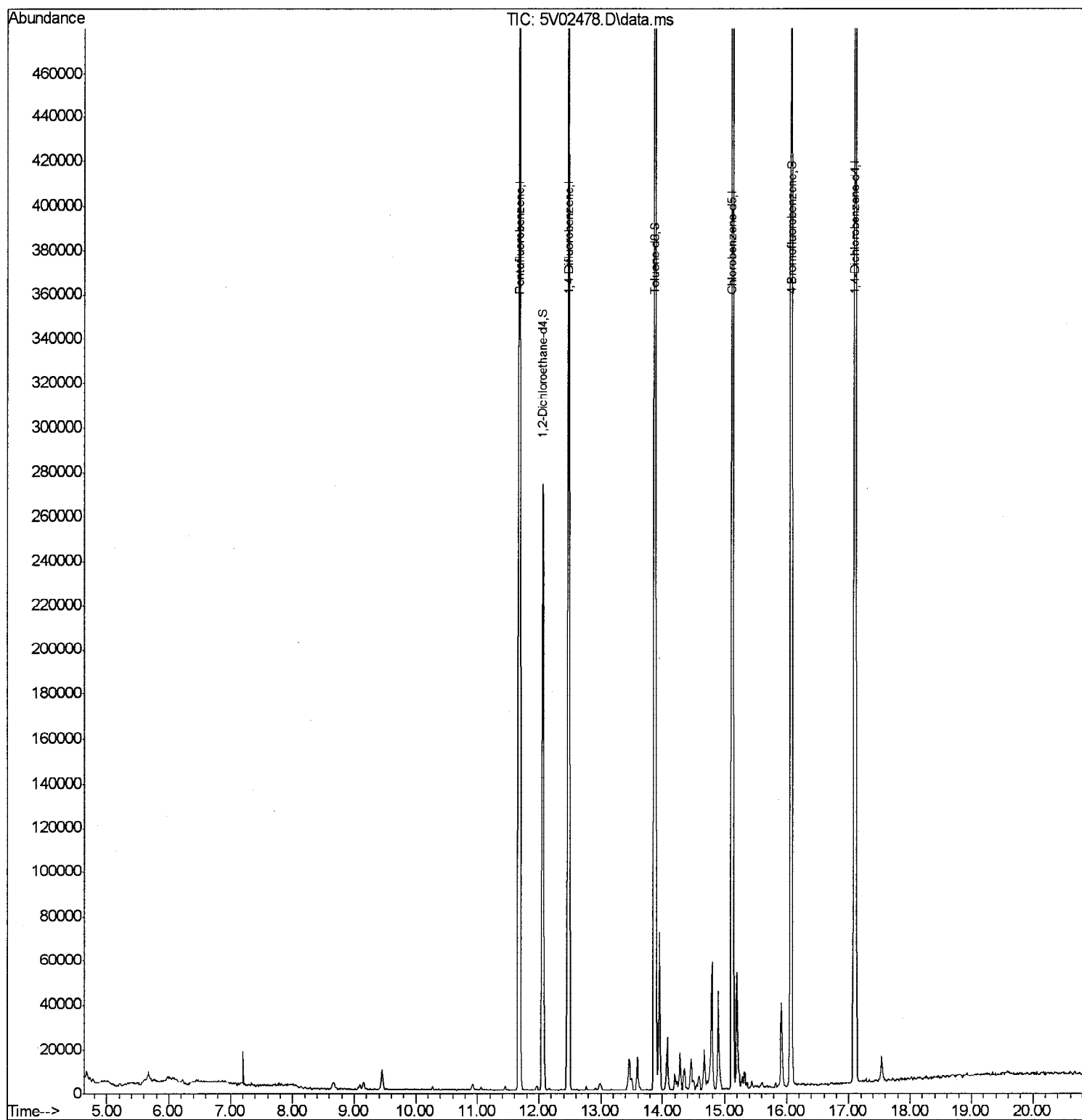
J - Estimated value below the LQL

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
MDL - Method Detection Limit  
Surr - Surrogate Standard

Print Date: 09/17/09

Data Path : C:\msdchem\1\DATA\V5091509.S\  
Data File : 5V02478.D  
Acq On : 15 Sep 2009 4:08 pm  
Operator : DONC  
Sample : 09-7170-02G  
Misc : ,SAMP,8260\_W,1,MS329,V5V104,,,,,1  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 13:15:08 2009  
Quant Method : C:\msdchem\1\METHODS\V5hs1103tvh097.M  
Quant Title : 8260  
QLast Update : Wed Sep 16 13:51:21 2009  
Response via : Initial Calibration



9/17/09

Data Path : C:\msdchem\1\DATA\V5091509.S\  
Data File : 5V02478.D  
Acq On : 15 Sep 2009 4:08 pmm  
Operator : DONCC  
Sample : 09-7170-02GG  
Misc : ,SAMP,8260\_W,1,MS329,V5V104,,,,,11  
ALS Vial : 8 Sample Multiplier: 11

Quant Method : C:\msdchem\1\METHODS\V5hsl103tvh097.MM  
Quant Title : 82600

TIC Library : C:\DATABASE\NIST98.LL  
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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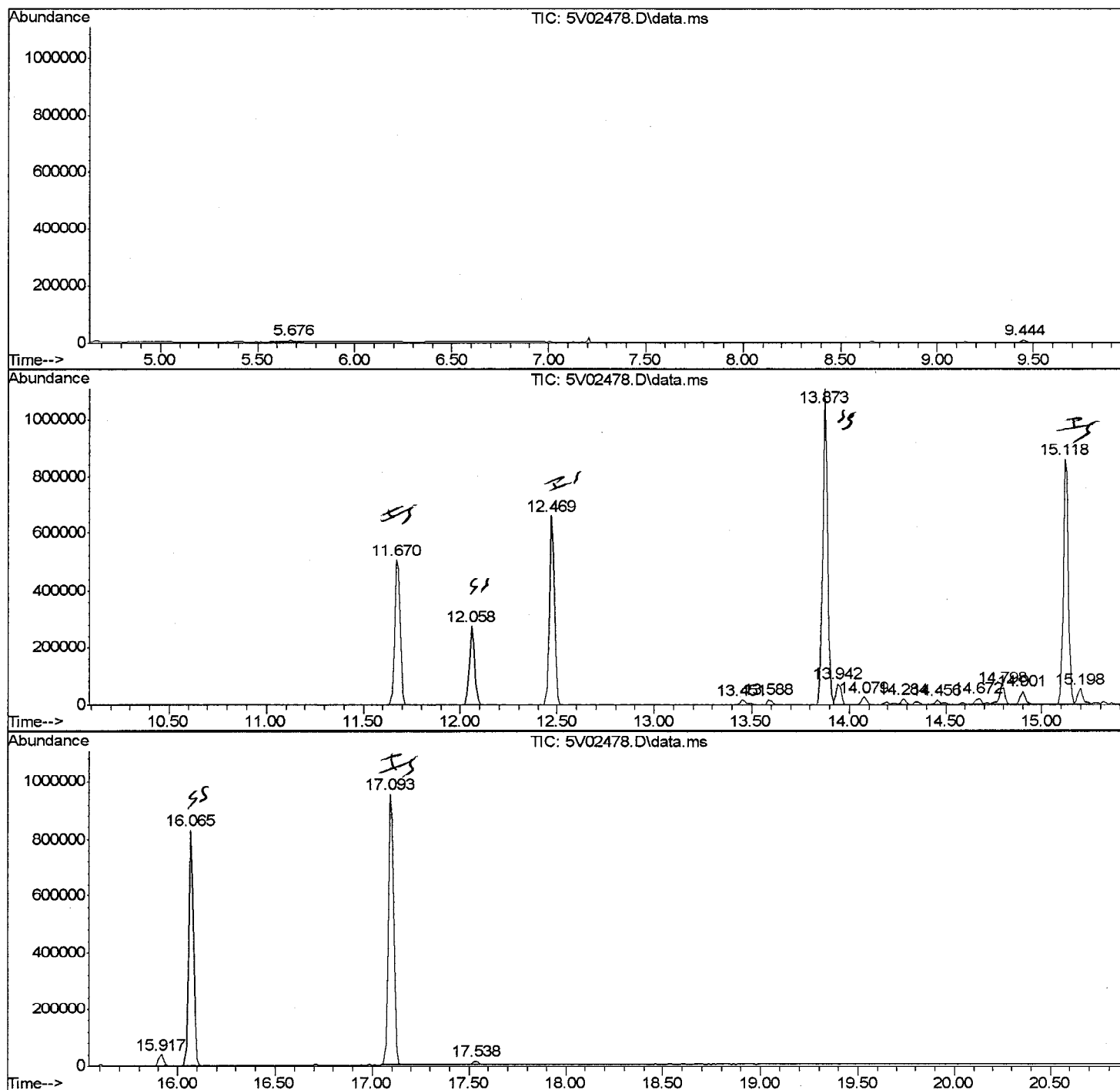
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Data Path : C:\msdchem\1\DATA\V5091509.S\  
Data File : 5V02478.D  
Acq On : 15 Sep 2009 4:08 pm  
Operator : DONC  
Sample : 09-7170-02G  
Misc : ,SAMP,8260\_W,1,MS329,V5V104,,,,,1  
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\V5hsl103tvh097.M  
Quant Title : 8260

TIC Library : C:\DATABASE\NIST98.L  
TIC Integration Parameters: LSCINT.P



# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Trip Blank  
Client Project ID:  
Date Collected: 09/03/09  
Date Received: 09/04/09  
Date Prepared: 09/15/09  
Date Analyzed: 09/15/09  
Percent Moisture NA

Lab Work Order 09-7170  
Lab Sample ID: 09-7170-04A  
Sample Matrix: Trip Blank  
Lab File ID: 5V02483.D  
Method Blank: MB1,W  
Prep Factor: 1.000  
Dilution Factor: 1.00


## Method: SW8260B

## VOLATILE ORGANICS

## Prep Method: SW5030B

Analytes	CAS Number	Result	Units: µg/L LQL
Acetone	67-64-1	U	10
Benzene	71-43-2	U	1.0
Bromodichloromethane	75-27-4	U	2.0
Bromoform	75-25-2	U	4.0
Bromomethane	74-83-9	U	4.0
2-Butanone	78-93-3	U	5.0
Carbon disulfide	75-15-0	U	2.0
Carbon tetrachloride	56-23-5	U	2.0
Chlorobenzene	108-90-7	U	2.0
Chloroethane	75-00-3	U	4.0
2-Chloroethylvinylether	110-75-8	U	4.0
Chloroform	67-66-3	U	2.0
Chloromethane	74-87-3	U	4.0
Dibromochloromethane	124-48-1	U	2.0
1,2-Dichlorobenzene	95-50-1	U	2.0
1,3-Dichlorobenzene	541-73-1	U	2.0
1,4-Dichlorobenzene	106-46-7	U	2.0
1,1-Dichloroethane	75-34-3	U	2.0
1,2-Dichloroethane	107-06-2	U	2.0
1,1-Dichloroethene	75-35-4	U	2.0
cis-1,2-Dichloroethene	156-59-2	U	2.0
trans-1,2-Dichloroethene	156-60-5	U	2.0
1,2-Dichloropropane	78-87-5	U	2.0
cis-1,3-Dichloropropene	10061-01-5	U	2.0
trans-1,3-Dichloropropene	10061-02-6	U	2.0
Ethylbenzene	100-41-4	U	2.0

  
Analyst

  
Approved

### Qualifiers: See the case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Prep or Analytical holding time exceeded  
S - Spike Recovery outside acceptance limits  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Qualifiers: U - Analyte not detected at or above the reporting limit

J - Estimated value below the LQL

Definitions: NA - Not Applicable  
LQL - Lower Quantitation Limit  
MDL - Method Detection Limit  
Surr - Surrogate Standard

Print Date: 09/17/09



# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Trip Blank  
Client Project ID:  
Date Collected: 09/03/09  
Date Received: 09/04/09  
Date Prepared: 09/15/09  
Date Analyzed: 09/15/09  
Percent Moisture NA

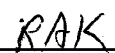
Lab Work Order 09-7170  
Lab Sample ID: 09-7170-04A  
Sample Matrix: Trip Blank  
Lab File ID: 5V02483.D  
Method Blank: MB1,W  
Prep Factor: 1.000  
Dilution Factor: 1.00

Method: SW8260B  
Prep Method: SW5030B

## VOLATILE ORGANICS

Analytes	CAS Number	Result	Units: µg/L LQL
2-Hexanone	591-78-6	U	2.0
Methylene chloride	75-09-2	U	5.0
4-Methyl-2-pentanone	108-10-1	U	2.0
Styrene	100-42-5	U	4.0
1,1,2,2-Tetrachloroethane	79-34-5	U	2.0
Tetrachloroethene	127-18-4	U	2.0
Toluene	108-88-3	U	2.0
1,1,1-Trichloroethane	71-55-6	U	2.0
1,1,2-Trichloroethane	79-00-5	U	2.0
Trichloroethene	79-01-6	U	2.0
Vinyl acetate	108-05-4	U	4.0
Vinyl chloride	75-01-4	U	2.0
Xylene, Total	1330-20-7	U	4.0
Surr: 1,2-Dichloroethane-d4	17060-07-0	103	QC Limits: 70-130 %REC
Surr: 4-Bromofluorobenzene	460-00-4	95	QC Limits: 70-130 %REC
Surr: Toluene-d8	2037-26-5	104	QC Limits: 70-130 %REC

  
Analyst

  
Approved

**Qualifiers:** See the case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Prep or Analytical holding time exceeded  
S - Spike Recovery outside acceptance limits  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Qualifiers:** U - Analyte not detected at or above the reporting limit

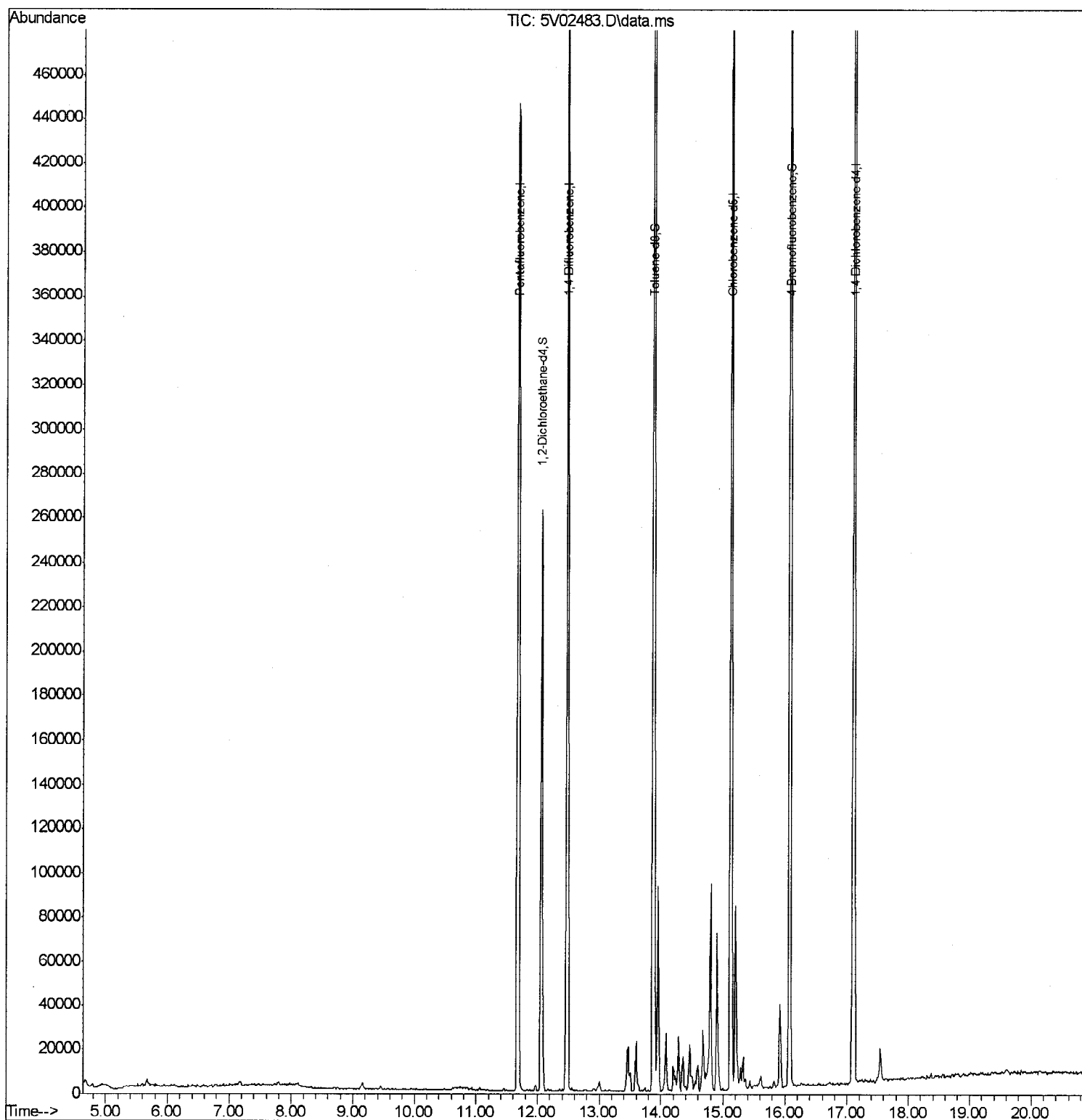
J - Estimated value below the LQL

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
MDL - Method Detection Limit  
Surr - Surrogate Standard

Print Date: 09/17/09

Data Path : C:\msdchem\1\DATA\V5091509.S\  
Data File : 5V02483.D  
Acq On : 15 Sep 2009 6:42 pm  
Operator : DONC  
Sample : 09-7170-04A  
Misc : ,SAMP,8260\_W,1,|MS329,V5V104,,,,,1  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 13:21:02 2009  
Quant Method : C:\msdchem\1\METHODS\V5hsl103tvh097.M  
Quant Title : 8260  
QLast Update : Wed Sep 16 13:51:21 2009  
Response via : Initial Calibration



9/17/09  
m

Data Path : C:\msdchem\1\DATA\V5091509.S\  
Data File : 5V02483.D  
Acq On : 15 Sep 2009 6:42 pm  
Operator : DONC  
Sample : 09-7170-04A  
Misc : ,SAMP,8260\_W,1,MS329,V5V104,,,,,1  
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\V5hsl1103tvh097.M  
Quant Title : 8260

TIC Library : C:\DATABASE\NIST98.L  
TIC Integration Parameters: LSCINT.P

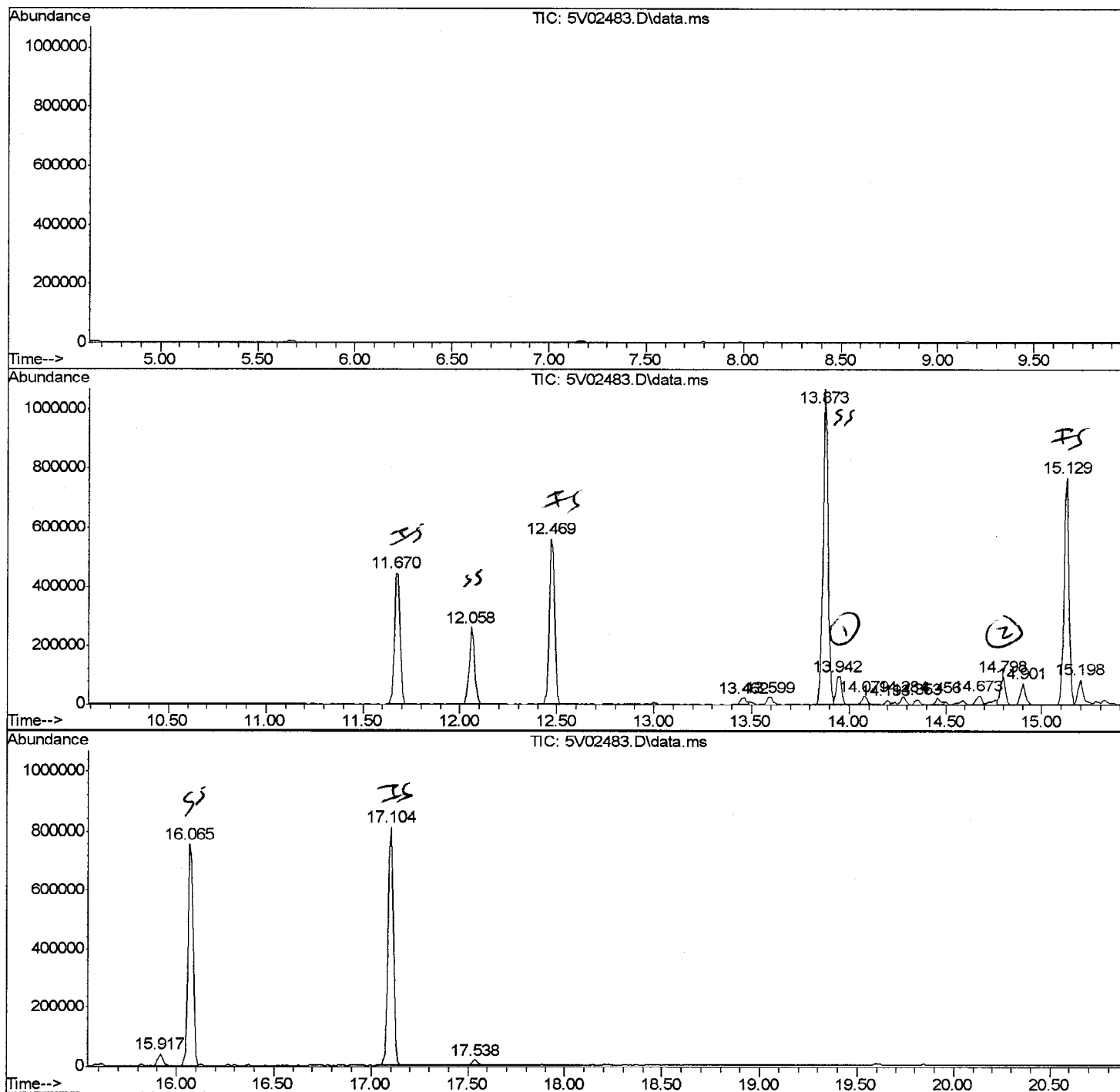
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Octane	13.942	6.2	ug/l	172230	3	15.129	1396340	50.0
Octane, 2-methyl-	14.798	5.9	ug/l	163600	3	15.129	1396340	50.0

Data Path : C:\msdchem\1\DATA\V5091509.S\  
Data File : 5V02483.D  
Acq On : 15 Sep 2009 6:42 pm  
Operator : DONC  
Sample : 09-7170-04A  
Misc : ,SAMP,8260\_W,1,MS329,V5V104,,,,,1  
ALS Vial : 13 Sample Multiplier: 1

044

Quant Method : C:\msdchem\1\METHODS\V5hsl103tvh097.M  
Quant Title : 8260

TIC Library : C:\DATABASE\NIST98.L  
TIC Integration Parameters: LSCINT.P



Data Path : C:\msdchem\1\DATA\V5091509.S\  
Data File : 5V02483.D  
Acq On : 15 Sep 2009 6:42 pm  
Operator : DONC  
Sample : 09-7170-04A  
Misc : ,SAMP,8260\_W,1,MS329,V5V104,,,,,1  
ALS Vial : 13 Sample Multiplier: 1

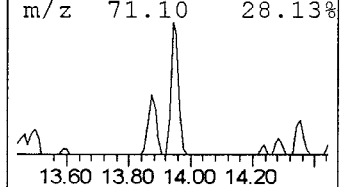
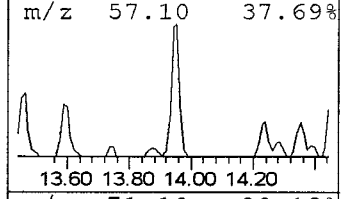
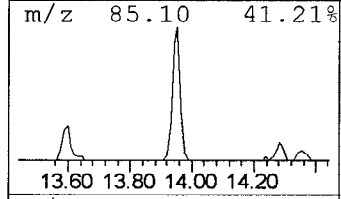
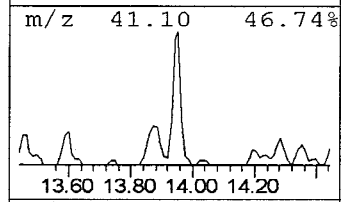
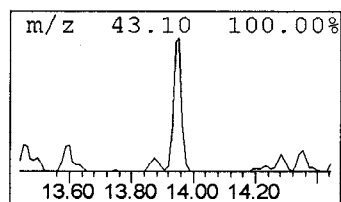
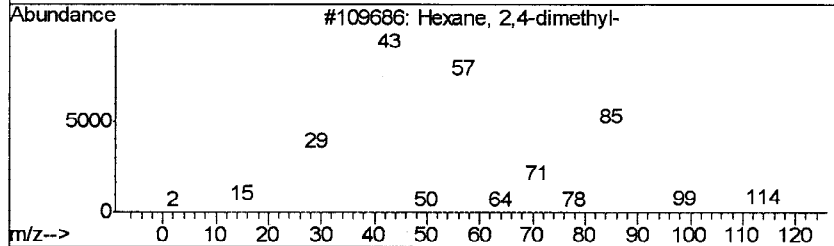
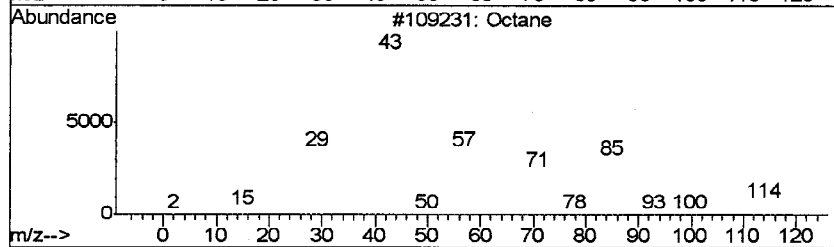
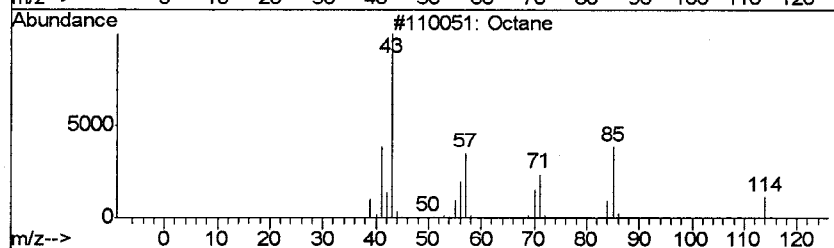
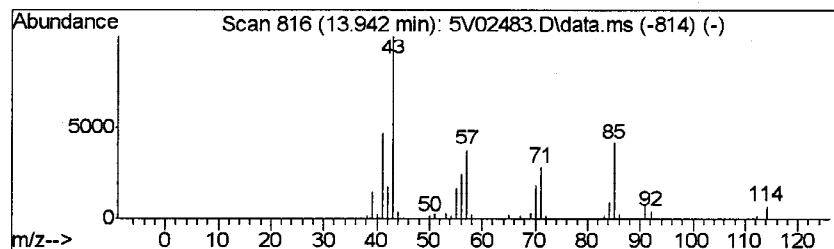
Quant Method : C:\msdchem\1\METHODS\V5hsl103tvh097.M  
Quant Title : 8260

TIC Library : C:\DATABASE\NIST98.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Octane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.942	6.17 ug/l	172230	Chlorobenzene-d5	15.129

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	78
2	Octane	114	C8H18	000111-65-9	91
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	38
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	59



Data Path : C:\msdchem\1\DATA\V5091509.S\  
Data File : 5V02483.D  
Acq On : 15 Sep 2009 6:42 pm  
Operator : DONC  
Sample : 09-7170-04A  
Misc : ,SAMP,8260\_W,1,|MS329,V5V104,,,,,1  
ALS Vial : 13 Sample Multiplier: 1

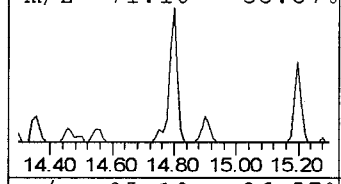
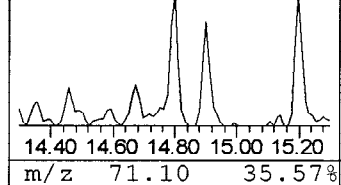
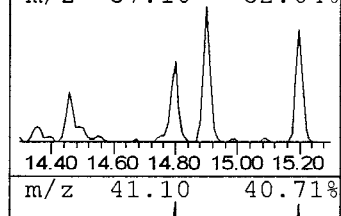
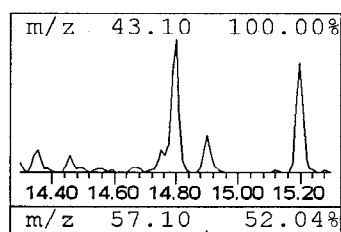
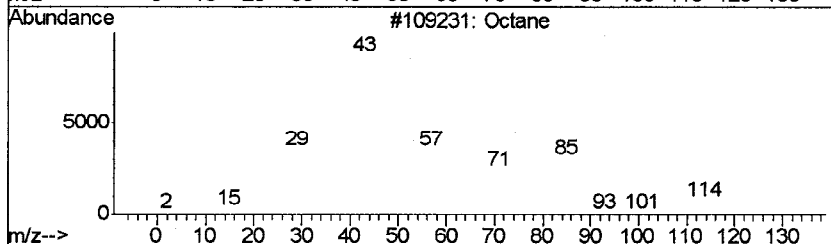
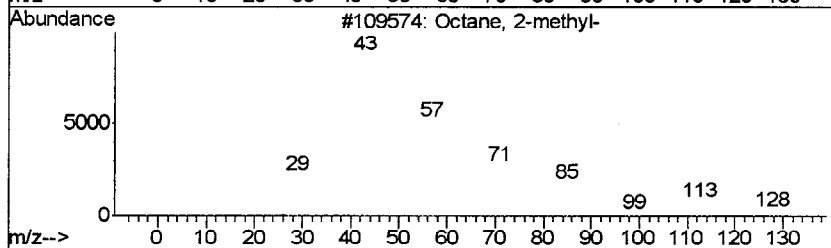
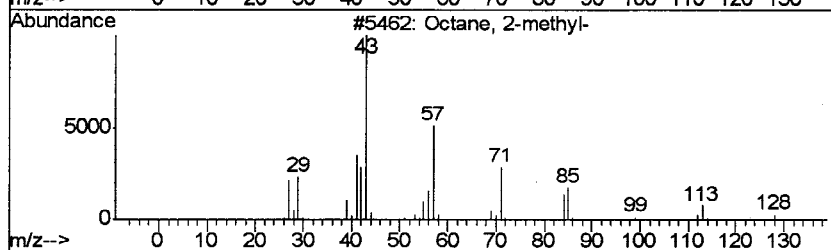
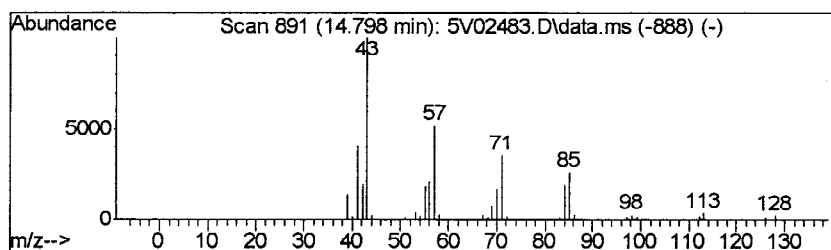
Quant Method : C:\msdchem\1\METHODS\V5hsl103tvh097.M  
Quant Title : 8260

TIC Library : C:\DATABASE\NIST98.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Octane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.798	5.86 ug/l	163600	Chlorobenzene-d5	15.129

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2-methyl-	128	C9H20	003221-61-2	58
2	Octane, 2-methyl-	128	C9H20	003221-61-2	58
3	Octane	114	C8H18	000111-65-9	64
4	Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	50
5	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	38



## **QUALITY ASSURANCE REPORTS**

**METHOD BLANKS (MB)**

**LABORATORY CONTROL SPIKES (LCS)**

**MATRIX SPIKES (MS/MSD)\***

**DUPLICATES (DUP)\***

♦ **For Metals or Wet Chemistry analyses: only included if requested.**

Evergreen Analytical, Inc.

Date: 24-Sep-09

Work Order: 09-7170

Client Project ID: Meadows Damelio

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7\_D

Sample ID: MB-20725	SampType: MBLK	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_090910B	Prep Date: 09/10/09	Units: mg/L						
	Batch ID: 20725	TestNo: E200.7, Rev.	FileID: 091009pm	Analysis Date: 09/11/09	SeqNo: 908828						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	U	0.00200									
Beryllium	U	0.000450									
Boron	U	0.0200									
Calcium	U	0.387									
Chromium	U	0.0100									
Cobalt	U	0.00500									
Iron	U	0.0700									
Lithium	U	0.00200									
Magnesium	U	0.150									
Manganese	U	0.00500									
Nickel	U	0.0300									
Potassium	U	0.340									
Sodium	U	0.400									
Strontium	U	0.000500									
Zinc	U	0.0300									

Sample ID: MB-20725	SampType: MBLK	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_090914C	Prep Date: 09/10/09	Units: mg/L						
	Batch ID: 20725	TestNo: E200.7, Rev.	FileID: 091409AM	Analysis Date: 09/15/09	SeqNo: 909821						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	1.843	0.00500									
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Sample ID: LCS-20725	SampType: LCS	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_090910B	Prep Date: 09/10/09	Units: mg/L						
	Batch ID: 20725	TestNo: E200.7, Rev.	FileID: 091009pm	Analysis Date: 09/11/09	SeqNo: 908829						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	4.702	0.00200	5	0	94	85	115	0	0		
Beryllium	0.0508	0.000450	0.05	0	102	85	115	0	0		
Boron	2.151	0.0200	2	0.01071	108	85	115	0	0		

## Qualifiers:

U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative



Work Order: 09-7170  
Client Project ID: Meadows Damelio

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7\_D

Sample ID: LCS-20725		SampType: LCS	TestCode: 200.7_D		Run ID: ICP-OPTIMA 5300 DV_090910B			Prep Date: 09/10/09		Units: mg/L	
		Batch ID: 20725	TestNo: E200.7, Rev.		FileID: 091009pm			Analysis Date: 09/11/09		SeqNo: 908829	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	10.3	0.387	10	0	103	85	115	0	0		
Chromium	1.992	0.0100	2	0	99.6	85	115	0	0		
Cobalt	1.959	0.00500	2	0	98	85	115	0	0		
Iron	5.072	0.0700	5	0	101	85	115	0	0		
Lithium	1.963	0.00200	2	0	98.2	85	115	0	0		
Magnesium	10.01	0.150	10	0	100	85	115	0	0		
Manganese	1.922	0.00500	2	0	96.1	85	115	0	0		
Nickel	1.947	0.0300	2	0	97.4	85	115	0	0		
Potassium	9.626	0.340	10	0	96.3	85	115	0	0		
Sodium	10.22	0.400	10	0.3709	102	85	115	0	0		
Strontium	0.4952	0.000500	0.5	0	99	85	115	0	0		
Zinc	1.929	0.0300	2	0	96.5	85	115	0	0		

Sample ID: LCS-20725		SampType: LCS	TestCode: 200.7_D		Run ID: ICP-OPTIMA 5300 DV_090914C			Prep Date: 09/10/09		Units: mg/L	
		Batch ID: 20725	TestNo: E200.7, Rev.		FileID: 091409AM			Analysis Date: 09/15/09		SeqNo: 909822	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	U	0.00500	2	1.843	-92.2	85	115	0	0		S

Sample ID: 09-7004-01FMS		SampType: MS	TestCode: 200.7_D		Run ID: ICP-OPTIMA 5300 DV_090910B			Prep Date: 09/10/09		Units: mg/L	
		Batch ID: 20725	TestNo: E200.7, Rev.		FileID: 091009pm			Analysis Date: 09/11/09		SeqNo: 908831	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	4.661	0.00200	5	0.0383	92.4	75	125	0	0		
Beryllium	0.05078	0.000450	0.05	0.001085	99.4	75	125	0	0		
Boron	2.299	0.0200	2	0.1129	109	75	125	0	0		
Calcium	44.56	0.387	10	43.54	10.2	75	125	0	0		S
Chromium	1.953	0.0100	2	0	97.7	75	125	0	0		
Cobalt	1.897	0.00500	2	0	94.9	75	125	0	0		
Copper	1.953	0.00500	2	0.004029	97.7	75	125	0	0		

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R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 09-7170  
Client Project ID: Meadows Damelio

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7\_D

Sample ID: 09-7004-01FMS		SampType: MS	TestCode: 200.7_D		Run ID: ICP-OPTIMA 5300 DV_090910B			Prep Date: 09/10/09		Units: mg/L	
		Batch ID: 20725	TestNo: E200.7, Rev.		FileID: 091009pm			Analysis Date: 09/11/09		SeqNo: 908831	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	5.118	0.0700	5	0	102	75	125	0	0		
Lithium	1.986	0.00200	2	0.01062	98.8	75	125	0	0		
Magnesium	31.45	0.150	10	27.18	42.7	75	125	0	0		S
Manganese	1.923	0.00500	2	0.1251	89.9	75	125	0	0		
Nickel	1.907	0.0300	2	0	95.4	75	125	0	0		
Potassium	12.5	0.340	10	3.3	92	75	125	0	0		
Sodium	377.8	0.400	10	471.7	-939	75	125	0	0		S
Strontium	1.105	0.000500	0.5	0.7854	63.9	75	125	0	0		S
Zinc	1.903	0.0300	2	0.01441	95.2	75	125	0	0		

Sample ID: 09-7004-01FMSD		SampType: MSD	TestCode: 200.7_D		Run ID: ICP-OPTIMA 5300 DV_090910B			Prep Date: 09/10/09		Units: mg/L	
		Batch ID: 20725	TestNo: E200.7, Rev.		FileID: 091009pm			Analysis Date: 09/11/09		SeqNo: 908832	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	4.756	0.00200	5	0.0383	94.4	75	125	4.661	2.03	20	
Beryllium	0.05221	0.000450	0.05	0.001085	102	75	125	0.05078	2.78	20	
Boron	2.37	0.0200	2	0.1129	113	75	125	2.299	3.05	20	
Calcium	45.8	0.387	10	43.54	22.6	75	125	44.56	2.74	20	S
Chromium	2.003	0.0100	2	0	100	75	125	1.953	2.51	20	
Cobalt	1.938	0.00500	2	0	96.9	75	125	1.897	2.11	20	
Copper	2.008	0.00500	2	0.004029	100	75	125	1.953	2.75	20	
Iron	5.198	0.0700	5	0	104	75	125	5.118	1.54	20	
Lithium	2.017	0.00200	2	0.01062	100	75	125	1.986	1.53	20	
Magnesium	32.33	0.150	10	27.18	51.5	75	125	31.45	2.77	20	S
Manganese	1.97	0.00500	2	0.1251	92.2	75	125	1.923	2.43	20	
Nickel	1.954	0.0300	2	0	97.7	75	125	1.907	2.41	20	
Potassium	12.75	0.340	10	3.3	94.5	75	125	12.5	2.04	20	
Sodium	392.8	0.400	10	471.7	-789	75	125	377.8	3.89	20	S
Strontium	1.141	0.000500	0.5	0.7854	71.1	75	125	1.105	3.22	20	S
Zinc	1.949	0.0300	2	0.01441	97.4	75	125	1.903	2.38	20	

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Work Order: 09-7170  
Client Project ID: Meadows Damelio

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8\_D

Sample ID: MB-20790	SampType: MBLK	TestCode: 200.8_D	Run ID: ICPMS_090916A	Prep Date: 09/15/09	Units: mg/L						
	Batch ID: 20790	TestNo: E200.8	FileID: 091609AQWMB-20790.186	Analysis Date: 09/16/09	SeqNo: 911299						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	U	0.00200									
Arsenic	U	0.00200									
Cadmium	U	0.000500									
Molybdenum	U	0.00500									
Selenium	U	0.00200									
Silver	U	0.000200									
Thallium	U	0.00100									
Uranium	U	0.00100									

Sample ID: LCS-20790	SampType: LCS	TestCode: 200.8_D	Run ID: ICPMS_090916A	Prep Date: 09/15/09	Units: mg/L						
	Batch ID: 20790	TestNo: E200.8	FileID: 091609AQLCS-20790.187	Analysis Date: 09/16/09	SeqNo: 911300						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	0.1133	0.00200	0.125	0	90.6	85	115	0	0		
Arsenic	0.2386	0.00200	0.25	0.0016	95.5	85	115	0	0		
Cadmium	0.02498	0.000500	0.025	0	99.9	85	115	0	0		
Molybdenum	0.2321	0.00500	0.25	0	92.8	85	115	0	0		
Selenium	0.05307	0.00200	0.05	0	106	85	115	0	0		
Silver	0.1297	0.000200	0.125	0	104	85	115	0	0		
Thallium	0.1112	0.00100	0.125	0	88.9	85	115	0	0		
Uranium	0.1373	0.00100	0.125	0	110	85	115	0	0		

Sample ID: 09-7170-01AMS	SampType: MS	TestCode: 200.8_D	Run ID: ICPMS_090916A	Prep Date: 09/15/09	Units: mg/L						
Client ID: Meadows-Exterior	Batch ID: 20790	TestNo: E200.8	FileID: 091609AQ09-7170-01AMS.1	Analysis Date: 09/16/09	SeqNo: 911302						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	0.1268	0.00200	0.125	0.00016	101	70	130	0	0		
Arsenic	0.2546	0.00200	0.25	0	102	70	130	0	0		
Cadmium	0.02496	0.000500	0.025	0	99.8	70	130	0	0		
Molybdenum	0.2404	0.00500	0.25	0.00393	96.1	70	130	0	0		

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Work Order: 09-7170  
 Client Project ID: Meadows Damelio

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8\_D

Sample ID: 09-7170-01AMS	SampType: MS	TestCode: 200.8_D	Run ID: ICPMS_090916A	Prep Date: 09/15/09	Units: mg/L						
Client ID: Meadows-Exterior	Batch ID: 20790	TestNo: E200.8	FileID: 091609AQ\09-7170-01AMS.1	Analysis Date: 09/16/09	SeqNo: 911302						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.05597	0.00200	0.05	0	112	70	130	0	0		
Silver	0.1289	0.000200	0.125	0	103	70	130	0	0		
Thallium	0.1088	0.00100	0.125	0	87	70	130	0	0		
Uranium	0.143	0.00100	0.125	0	114	70	130	0	0		

Sample ID: 09-7170-01AMS	SampType: MS	TestCode: 200.8_D	Run ID: ICPMS_090917A	Prep Date: 09/15/09	Units: mg/L						
Client ID: Meadows-Exterior	Batch ID: 20790	TestNo: E200.8	FileID: 091709AQ\09-7170-01AMS.1	Analysis Date: 09/17/09	SeqNo: 911705						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.1427	0.00100	0.125	0.00024	114	70	130	0	0		

Sample ID: 09-7170-01AMSD	SampType: MSD	TestCode: 200.8_D	Run ID: ICPMS_090916A	Prep Date: 09/15/09	Units: mg/L						
Client ID: Meadows-Exterior	Batch ID: 20790	TestNo: E200.8	FileID: 091609AQ\09-7170-01AMSD.	Analysis Date: 09/16/09	SeqNo: 911303						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.1153	0.00200	0.125	0.00016	92.2	70	130	0.1268	9.52	20	
Arsenic	0.26	0.00200	0.25	0	104	70	130	0.2546	2.10	20	
Cadmium	0.02447	0.000500	0.025	0	97.9	70	130	0.02496	2.00	20	
Molybdenum	0.256	0.00500	0.25	0.00393	102	70	130	0.2404	6.30	20	
Selenium	0.05497	0.00200	0.05	0	110	70	130	0.05597	1.80	20	
Silver	0.1306	0.000200	0.125	0	104	70	130	0.1289	1.30	20	
Thallium	0.1166	0.00100	0.125	0	93.3	70	130	0.1088	6.96	20	
Uranium	0.133	0.00100	0.125	0	106	70	130	0.143	7.26	20	

Sample ID: 09-7170-01AMSD	SampType: MSD	TestCode: 200.8_D	Run ID: ICPMS_090917A	Prep Date: 09/15/09	Units: mg/L						
Client ID: Meadows-Exterior	Batch ID: 20790	TestNo: E200.8	FileID: 091709AQ\09-7170-01AMSD.	Analysis Date: 09/17/09	SeqNo: 911706						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.1393	0.00100	0.125	0.00024	111	70	130	0.1427	2.40	20	

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Work Order: 09-7170

Client Project ID: Meadows Damelio

## ANALYTICAL QC SUMMARY REPORT

BatchID: 20695

Sample ID: <b>MB-20695</b>	SampType: <b>MBLK</b>	TestCode: <b>200.7_T</b>	Run ID: <b>ICP-OPTIMA 5300 DV_090917B</b>	Prep Date: <b>9/8/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>20695</b>	TestNo: <b>E200.7, Rev.</b>	FileID: <b>091709AM</b>	Analysis Date: <b>9/17/2009</b>	SeqNo: <b>911581</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	0	0.387									
Magnesium	0	0.150									
Potassium	0	0.340									
Sodium	0	0.400									

Sample ID: LCS-20695	SampType: LCS	TestCode: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_090917B	Prep Date: 9/8/2009	Units: mg/L						
	Batch ID: 20695	TestNo: E200.7, Rev.	FileID: 091709AM	Analysis Date: 9/17/2009	SeqNo: 911582						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	10.17	0.387	10	0	102	85	115	0	0		
Magnesium	10.49	0.150	10	0	105	85	115	0	0		
Potassium	10.59	0.340	10	0	106	85	115	0	0		
Sodium	11	0.400	10	0	110	85	115	0	0		

Sample ID: 09-7004-01EMS	SampType: MS	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_090917B	Prep Date: 9/8/2009	Units: mg/L						
	Batch ID: 20695	TestNo: SW6010B	FileID: 091709AM	Analysis Date: 9/17/2009	SeqNo: 911584						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	47.66	0.39	10	41.62	60.4	75	125	0	0		S
Magnesium	34.93	0.15	10	27.25	76.8	75	125	0	0		
Potassium	13.89	0.34	10	3.461	104	75	125	0	0		
Sodium	443.6	0.40	10	486.4	-428	75	125	0	0		S

Sample ID: 09-7004-01EMSD	SampType: MSD	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_090917B	Prep Date: 9/8/2009	Units: mg/L						
	Batch ID: 20695	TestNo: SW6010B	FileID: 091709AM	Analysis Date: 9/17/2009	SeqNo: 911587						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	48.13	0.39	10	41.62	65.1	75	125	47.66	0.996	20	S
Magnesium	35.01	0.15	10	27.25	77.6	75	125	34.93	0.233	20	

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Work Order: 09-7170  
Client Project ID: Meadows Damelio

**ANALYTICAL QC SUMMARY REPORT****BatchID: 20695**

Sample ID: <b>09-7004-01EMSD</b>		SampType: <b>MSD</b>		TestCode: <b>6010_D</b>		Run ID: <b>ICP-OPTIMA 5300 DV_090917B</b>		Prep Date: <b>9/8/2009</b>		Units: <b>mg/L</b>	
		Batch ID: <b>20695</b>		TestNo: <b>SW6010B</b>		FileID: <b>091709AM</b>		Analysis Date: <b>9/17/2009</b>		SeqNo: <b>911587</b>	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	13.81	0.34	10	3.461	104	75	125	13.89	0.552	20	
Sodium	451.1	0.40	10	486.4	-353	75	125	443.6	1.67	20	S

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Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: anions\_nondw

Sample ID: MB 09/04/09	SampType: MBLK	TestCode: anions_nond	Run ID: IC-2000_090904A	Prep Date: 9/4/09	Units: mg/L						
	Batch ID: R49820	TestNo: E300.0	FileID: 27	Analysis Date: 9/4/09	SeqNo: 905828						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	U	0.50									
Nitrite	U	0.20									
Bromide	U	0.20									
Nitrate	U	0.20									
o-Phosphate	U	0.20									
Sulfate	U	0.50									

Sample ID: LCS	SampType: LCS	TestCode: anions_nond	Run ID: IC-2000_090904A	Prep Date: 9/4/09	Units: mg/L						
	Batch ID: R49820	TestNo: E300.0	FileID: 26	Analysis Date: 9/4/09	SeqNo: 905827						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	18.59	2.5	20	0	93	90	110	0	0		
Nitrite	20.6	1.0	20	0	103	90	110	0	0		
Bromide	19.69	1.0	20	0	98.4	90	110	0	0		
Nitrate	19.43	1.0	20	0	97.1	90	110	0	0		
o-Phosphate	29.63	1.0	30	0	98.8	90	110	0	0		
Sulfate	29.33	2.5	30	0	97.8	90	110	0	0		

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Evergreen Analytical, Inc.

Date: 08-Sep-09

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: MEEP\_W

Sample ID: <b>GB090409</b>	SampType: <b>MBLK</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_090904A</b>	Prep Date: <b>09/04/09</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS090409</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>FB480</b>	Analysis Date: <b>09/04/09</b>	SeqNo: <b>906083</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethane	U	0.0016									
Ethene	U	0.0024									
Methane	U	0.00080									

Sample ID: <b>LCS090409</b>	SampType: <b>LCS</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_090904A</b>	Prep Date: <b>09/04/09</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS090409</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>FB482</b>	Analysis Date: <b>09/04/09</b>	SeqNo: <b>906084</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethane	1.196	0.016	0.9548	0	125	70	130	0	0		
Ethene	1.308	0.024	1.11	0	118	70	140	0	0		
Methane	0.607	0.0080	0.5094	0	119	70	130	0	0		

Sample ID: <b>LCSD090409</b>	SampType: <b>LCSD</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_090904A</b>	Prep Date: <b>09/04/09</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS090409</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>FB483</b>	Analysis Date: <b>09/04/09</b>	SeqNo: <b>906085</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethane	1.207	0.016	0.9548	0	126	70	130	1.196	0.918	30	
Ethene	1.322	0.024	1.11	0	119	70	140	1.308	1.01	30	
Methane	0.6131	0.0080	0.5094	0	120	70	130	0.607	0.999	30	

Sample ID: 09-7004-01DMS	SampType: MS	TestCode: MEEP_W	Run ID: FID4_090904A	Prep Date: 09/04/09	Units: mg/L						
	Batch ID: GAS090409	TestNo: RSKSOP175	FileID: FB498	Analysis Date: 09/04/09	SeqNo: 906075						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethane	1.133	0.016	0.9548	0	119	70	130	0	0		
Ethene	1.251	0.024	1.11	0	113	70	140	0	0		
Methane	0.5746	0.0080	0.5094	0.008257	111	70	130	0	0		

Qualifiers:

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S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative



Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: MEEP\_W

Sample ID: 09-7004-01DMS	SampType: MSD	TestCode: MEEP_W	Run ID: FID4_090904A	Prep Date: 09/04/09	Units: mg/L						
	Batch ID: GAS090409	TestNo: RSKSOP175	FileID: FB499	Analysis Date: 09/04/09	SeqNo: 906076						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethane	1.153	0.016	0.9548	0	121	70	130	1.133	1.75	30	
Ethene	1.284	0.024	1.11	0	116	70	140	1.251	2.59	30	
Methane	0.5864	0.0080	0.5094	0.008257	113	70	130	0.5746	2.03	30	

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X - See case narrative

Evergreen Analytical, Inc.

Date: 14-Sep-09

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8270\_W

Sample ID: MB-20706	SampType: MBLK	TestCode: 8270_W	Run ID: GCMS1_090911A	Prep Date: 9/9/09	Units: µg/L						
	Batch ID: 20706	TestNo: SW 8270C	FileID: 091109\1G02884.D	Analysis Date: 9/12/09	SeqNo: 909625						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	U	1.0									
Acenaphthylene	U	1.0									
Anthracene	U	1.3									
Benzo(a)anthracene	U	1.0									
Benzo(b&k)fluoranthene	U	2.0									
Benzoic acid	U	5.0									
Benzo(g,h,i)perylene	U	2.0									
Benzo(a)pyrene	U	1.0									
Benzyl alcohol	U	5.0									
4-Bromophenyl phenyl ether	U	5.0									
Butyl benzyl phthalate	U	1.1									
4-Chloroaniline	U	1.0									
Bis(2-chloroethoxy)methane	U	5.0									
Bis(2-chloroethyl)ether	U	1.0									
4-Chloro-3-methylphenol	U	5.0									
2-Chloronaphthalene	U	5.0									
2-Chlorophenol	U	1.5									
4-Chlorophenyl phenyl ether	U	5.0									
Chrysene	U	1.0									
Dibenz(a,h)anthracene	U	2.0									
Dibenzofuran	U	5.0									
Di-n-butyl phthalate	U	1.3									
1,2-Dichlorobenzene	U	1.0									
1,3-Dichlorobenzene	U	1.0									
1,4-Dichlorobenzene	U	1.0									
3,3'-Dichlorobenzidine	U	1.0									
Dichlorodiisopropyl ether	U	5.0									
2,4-Dichlorophenol	U	2.0									
Diethyl phthalate	U	5.0									

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 E - Extrapolated value, value exceeds calibration range.

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 B - Analyte detected in the associated Method Blank  
 H - Prep or analytical holding time exceeded  
 X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8270\_W

Sample ID: MB-20706	SampType: MBLK	TestCode: 8270_W	Run ID: GCMS1_090911A	Prep Date: 9/9/09	Units: µg/L						
	Batch ID: 20706	TestNo: SW8270C	FileID: 09110911G02884.D	Analysis Date: 9/12/09	SeqNo: 909625						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dimethylphenol	U	1.0									
Dimethyl phthalate	U	5.0									
4,6-Dinitro-2-methylphenol	U	2.0									
2,4-Dinitrophenol	U	5.0									
2,4-Dinitrotoluene	U	1.0									
2,6-Dinitrotoluene	U	5.0									
Di-n-octyl phthalate	U	1.8									
Bis(2-ethylhexyl)phthalate	U	1.5									
Fluoranthene	U	1.2									
Fluorene	U	1.4									
Hexachlorobenzene	U	5.0									
Hexachlorobutadiene	U	1.0									
Hexachlorocyclopentadiene	U	5.0									
Hexachloroethane	U	1.0									
Indeno(1,2,3-cd)pyrene	U	2.0									
Isophorone	U	1.0									
2-Methylnaphthalene	U	5.0									
2-Methylphenol	U	5.0									
4-Methylphenol	U	2.0									
Naphthalene	U	1.0									
2-Nitroaniline	U	5.0									
3-Nitroaniline	U	5.0									
4-Nitroaniline	U	5.0									
Nitrobenzene	U	1.0									
2-Nitrophenol	U	5.0									
4-Nitrophenol	U	1.1									
N-Nitrosodi-n-propylamine	U	2.0									
N-Nitrosodiphenylamine	U	1.0									
Pentachlorophenol	U	5.0									
Phenanthrene	U	5.0									
Phenol	U	5.0									

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 H - Prep or analytical holding time exceeded  
 X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8270\_W

Sample ID: MB-20706	SampType: MBLK	TestCode: 8270_W	Run ID: GCMS1_090911A	Prep Date: 9/9/09	Units: µg/L						
	Batch ID: 20706	TestNo: SW 8270C	FileID: 091109\1G02884.D	Analysis Date: 9/12/09	SeqNo: 909625						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pyrene	U	1.0									
1,2,4-Trichlorobenzene	U	5.0									
2,4,5-Trichlorophenol	U	1.5									
2,4,6-Trichlorophenol	U	2.0									
Surr: 2,4,6-Tribromophenol	39.74	0	50	0	79.5	32	138	0	0		
Surr: 2-Fluorobiphenyl	32.86	0	50	0	65.7	45	130	0	0		
Surr: 2-Fluorophenol	30.32	0	50	0	60.6	43	130	0	0		
Surr: Nitrobenzene-d5	32.15	0	50	0	64.3	45	130	0	0		
Surr: Phenol-d6	32.48	0	50	0	65	47	130	0	0		
Surr: Terphenyl-d14	40.56	0	50	0	81.1	47	136	0	0		

Sample ID: LCS-20706	SampType: LCS	TestCode: 8270_W	Run ID: GCMS1_090911A	Prep Date: 9/9/09	Units: µg/L						
	Batch ID: 20706	TestNo: SW 8270C	FileID: 091109\1G02885.D	Analysis Date: 9/12/09	SeqNo: 909622						
Analyte	Result	LQL	SPK value	SPK Ref Val	% REC	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual

Acenaphthene	89.57	1.0	100	0	89.6	58	130	0	0		
Acenaphthylene	91.68	1.0	100	0	91.7	56	130	0	0		
Anthracene	95.09	1.3	100	0	95.1	59	130	0	0		
Benzo(a)anthracene	93.67	1.0	100	0	93.7	58	130	0	0		
Benzo(b&k)fluoranthene	191	2.0	200	0	95.5	61	130	0	0		
Benzoic acid	98.08	5.0	100	0	98.1	17	130	0	0		
Benzo(g,h,i)perylene	84.1	2.0	100	0	84.1	62	130	0	0		
Benzo(a)pyrene	92.36	1.0	100	0	92.4	58	130	0	0		
Benzyl alcohol	77.31	5.0	100	0	77.3	60	130	0	0		
4-Bromophenyl phenyl ether	95.25	5.0	100	0	95.3	65	130	0	0		
Butyl benzyl phthalate	107	1.1	100	0	107	56	130	0	0		
4-Chloroaniline	87.73	1.0	100	0	87.7	32	130	0	0		
Bis(2-chloroethoxy)methane	90.76	5.0	100	0	90.8	58	130	0	0		
Bis(2-chloroethyl)ether	90.9	1.0	100	0	90.9	55	130	0	0		
4-Chloro-3-methylphenol	87.09	5.0	100	0	87.1	46	130	0	0		
2-Chloronaphthalene	82.35	5.0	100	0	82.4	60	130	0	0		

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X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8270\_W

Sample ID: LCS-20706		SampType: LCS		TestCode: 8270_W		Run ID: GCMS1_090911A		Prep Date: 9/9/09		Units: µg/L	
Batch ID: 20706		TestNo: SW8270C		FileID: 091109\1G02885.D		Analysis Date: 9/12/09		SeqNo: 909622			
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorophenol	78.53	1.5	100	0	78.5	42	130	0	0		
4-Chlorophenyl phenyl ether	90.6	5.0	100	0	90.6	67	130	0	0		
Chrysene	90.59	1.0	100	0	90.6	58	130	0	0		
Dibenz(a,h)anthracene	84.59	2.0	100	0	84.6	62	130	0	0		
Dibenzofuran	87.42	5.0	100	0	87.4	60	130	0	0		
Di-n-butyl phthalate	93.17	1.3	100	0	93.2	55	130	0	0		
1,2-Dichlorobenzene	76.47	1.0	100	0	76.5	52	130	0	0		
1,3-Dichlorobenzene	73.74	1.0	100	0	73.7	50	130	0	0		
1,4-Dichlorobenzene	74.96	1.0	100	0	75	51	130	0	0		
3,3'-Dichlorobenzidine	100.7	1.0	100	0	101	51	130	0	0		
Dichlorodisopropyl ether	88.61	5.0	100	0	88.6	53	130	0	0		
2,4-Dichlorophenol	82.35	2.0	100	0	82.4	47	130	0	0		
Diethyl phthalate	106.6	5.0	100	0	107	51	131	0	0		
2,4-Dimethylphenol	61.52	1.0	100	0	61.5	31	130	0	0		
Dimethyl phthalate	97.39	5.0	100	0	97.4	51	130	0	0		
4,6-Dinitro-2-methylphenol	92.09	2.0	100	0	92.1	54	130	0	0		
2,4-Dinitrophenol	94.69	5.0	100	0	94.7	35	135	0	0		
2,4-Dinitrotoluene	109.2	1.0	100	0	109	51	131	0	0		
2,6-Dinitrotoluene	103.8	5.0	100	0	104	59	130	0	0		
Di-n-octyl phthalate	97.39	1.8	100	0	97.4	59	130	0	0		
Bis(2-ethylhexyl)phthalate	112.2	1.5	100	0	112	58	130	0	0		
Fluoranthene	82.54	1.2	100	0	82.5	60	130	0	0		
Fluorene	91.57	1.4	100	0	91.6	61	130	0	0		
Hexachlorobenzene	91.84	5.0	100	0	91.8	58	130	0	0		
Hexachlorobutadiene	76.02	1.0	100	0	76	42	130	0	0		
Hexachlorocyclopentadiene	40.72	5.0	100	0	40.7	36	130	0	0		
Hexachloroethane	71.43	1.0	100	0	71.4	43	130	0	0		
Indeno(1,2,3-cd)pyrene	82.99	2.0	100	0	83	62	130	0	0		
Isophorone	82.83	1.0	100	0	82.8	52	130	0	0		
2-Methylnaphthalene	87.55	5.0	100	0	87.6	54	130	0	0		
2-Methylphenol	69.7	5.0	100	0	69.7	47	130	0	0		

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 X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8270\_W

Sample ID: LCS-20706	SampType: LCS	TestCode: 8270_W	Run ID: GCMS1_090911A	Prep Date: 9/9/09	Units: µg/L						
	Batch ID: 20706	TestNo: SW8270C	FileID: 091109\1G02885.D	Analysis Date: 9/12/09	SeqNo: 909622						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Methylphenol	69.37	2.0	100	0	69.4	45	130	0	0		
Naphthalene	82.52	1.0	100	0	82.5	54	130	0	0		
2-Nitroaniline	98.33	5.0	100	0	98.3	60	130	0	0		
3-Nitroaniline	109.2	5.0	100	0	109	62	130	0	0		
4-Nitroaniline	103.7	5.0	100	0	104	56	130	0	0		
Nitrobenzene	87.95	1.0	100	0	88	50	130	0	0		
2-Nitrophenol	84.05	5.0	100	0	84.1	43	130	0	0		
4-Nitrophenol	104.5	1.1	100	0	104	52	130	0	0		
N-Nitrosodi-n-propylamine	81.8	2.0	100	0	81.8	60	130	0	0		
N-Nitrosodiphenylamine	101.7	1.0	100	0	102	54	130	0	0		
Pentachlorophenol	84.05	5.0	100	0	84.1	49	130	0	0		
Phenanthrene	89.03	5.0	100	0	89	62	130	0	0		
Phenol	78.39	5.0	100	0	78.4	32	130	0	0		
Pyrene	93.2	1.0	100	0	93.2	54	130	0	0		
1,2,4-Trichlorobenzene	78.25	5.0	100	0	78.3	52	130	0	0		
2,4,5-Trichlorophenol	82.84	1.5	100	0	82.8	59	130	0	0		
2,4,6-Trichlorophenol	80.86	2.0	100	0	80.9	57	130	0	0		
Surr: 2,4,6-Tribromophenol	48.76	0	50	0	97.5	32	138	0	0		
Surr: 2-Fluorobiphenyl	41.04	0	50	0	82.1	45	130	0	0		
Surr: 2-Fluorophenol	36.19	0	50	0	72.4	43	130	0	0		
Surr: Nitrobenzene-d5	43.39	0	50	0	86.8	45	130	0	0		
Surr: Phenol-d6	36.92	0	50	0	73.8	47	130	0	0		
Surr: Terphenyl-d14	49.24	0	50	0	98.5	47	136	0	0		

Sample ID: LCSD-20706	SampType: LCSD	TestCode: 8270_W	Run ID: GCMS1_090911A	Prep Date: 9/9/09	Units: µg/L						
	Batch ID: 20706	TestNo: SW 8270C	FileID: 091109\1G02886.D	Analysis Date: 9/12/09	SeqNo: 909623						
Analyte	Result	LQL	SPK value	SPK Ref Val	% REC	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual
Acenaphthene	94.39	1.0	100	0	94.4	58	130	89.57	5.24	30	
Acenaphthylene	96.14	1.0	100	0	96.1	56	130	91.68	4.75	30	
Anthracene	99.98	1.3	100	0	100	59	130	95.09	5.01	30	

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 B - Analyte detected in the associated Method Blank  
 H - Prep or analytical holding time exceeded  
 X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8270\_W

Sample ID: LCSD-20706		SampType: LCSD		TestCode: 8270_W		Run ID: GCMS1_090911A		Prep Date: 9/9/09		Units: µg/L	
Batch ID: 20706		TestNo: SW8270C		FileID: 091109\1G02886.D		Analysis Date: 9/12/09		SeqNo: 909623			
Analyte	Result	LQL	SPK value	SPK Ref Val	% REC	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual
Benzo(a)anthracene	98.5	1.0	100	0	98.5	58	130	93.67	5.03	30	
Benzo(b&k)fluoranthene	201.2	2.0	200	0	101	61	130	191	5.20	30	
Benzoic acid	96.82	5.0	100	0	96.8	17	130	98.08	1.29	30	
Benzo(g,h,i)perylene	87.28	2.0	100	0	87.3	62	130	84.1	3.71	30	
Benzo(a)pyrene	95.7	1.0	100	0	95.7	58	130	92.36	3.55	30	
Benzyl alcohol	78.95	5.0	100	0	79	60	130	77.31	2.10	30	
4-Bromophenyl phenyl ether	102.8	5.0	100	0	103	65	130	95.25	7.64	30	
Butyl benzyl phthalate	113.4	1.1	100	0	113	56	130	107	5.82	30	
4-Chloroaniline	84.89	1.0	100	0	84.9	32	130	87.73	3.29	30	
Bis(2-chloroethoxy)methane	90.26	5.0	100	0	90.3	58	130	90.76	0.552	30	
Bis(2-chloroethyl)ether	92.29	1.0	100	0	92.3	55	130	90.9	1.52	30	
4-Chloro-3-methylphenol	82.98	5.0	100	0	83	46	130	87.09	4.83	30	
2-Chloronaphthalene	86	5.0	100	0	86	60	130	82.35	4.34	30	
2-Chlorophenol	76.72	1.5	100	0	76.7	42	130	78.53	2.33	30	
4-Chlorophenyl phenyl ether	94.56	5.0	100	0	94.6	67	130	90.6	4.28	30	
Chrysene	96	1.0	100	0	96	58	130	90.59	5.80	30	
Dibenz(a,h)anthracene	88.54	2.0	100	0	88.5	62	130	84.59	4.56	30	
Dibenzofuran	90.46	5.0	100	0	90.5	60	130	87.42	3.42	30	
Di-n-butyl phthalate	96.67	1.3	100	0	96.7	55	130	93.17	3.69	30	
1,2-Dichlorobenzene	75.85	1.0	100	0	75.9	52	130	76.47	0.814	30	
1,3-Dichlorobenzene	71.93	1.0	100	0	71.9	50	130	73.74	2.49	30	
1,4-Dichlorobenzene	71.98	1.0	100	0	72	51	130	74.96	4.06	30	
3,3'-Dichlorobenzidine	102.6	1.0	100	0	103	51	130	100.7	1.87	30	
Dichlorodiisopropyl ether	89.32	5.0	100	0	89.3	53	130	88.61	0.798	30	
2,4-Dichlorophenol	79.73	2.0	100	0	79.7	47	130	82.35	3.23	30	
Diethyl phthalate	110.6	5.0	100	0	111	51	131	106.6	3.65	30	
2,4-Dimethylphenol	61.01	1.0	100	0	61	31	130	61.52	0.832	30	
Dimethyl phthalate	103.1	5.0	100	0	103	51	130	97.39	5.70	30	
4,6-Dinitro-2-methylphenol	96.5	2.0	100	0	96.5	54	130	92.09	4.68	30	
2,4-Dinitrophenol	98.82	5.0	100	0	98.8	35	135	94.69	4.27	30	
2,4-Dinitrotoluene	113.3	1.0	100	0	113	51	131	109.2	3.69	30	

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 B - Analyte detected in the associated Method Blank  
 H - Prep or analytical holding time exceeded  
 X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8270\_W

Sample ID: LCSD-20706	SampType: LCSD	TestCode: 8270_W	Run ID: GCMS1_090911A	Prep Date: 9/9/09	Units: µg/L						
	Batch ID: 20706	TestNo: SW 8270C	FileID: 091109\1G02886.D	Analysis Date: 9/12/09	SeqNo: 909623						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	105.3	5.0	100	0	105	59	130	103.8	1.44	30	
Di-n-octyl phthalate	102.7	1.8	100	0	103	59	130	97.39	5.29	30	
Bis(2-ethylhexyl)phthalate	115.7	1.5	100	0	116	58	130	112.2	3.05	30	
Fluoranthene	83.84	1.2	100	0	83.8	60	130	82.54	1.56	30	
Fluorene	95.02	1.4	100	0	95	61	130	91.57	3.70	30	
Hexachlorobenzene	97.48	5.0	100	0	97.5	58	130	91.84	5.96	30	
Hexachlorobutadiene	80.34	1.0	100	0	80.3	42	130	76.02	5.53	30	
Hexachlorocyclopentadiene	50.15	5.0	100	0	50.2	36	130	40.72	20.8	30	
Hexachloroethane	72.68	1.0	100	0	72.7	43	130	71.43	1.73	30	
Indeno(1,2,3-cd)pyrene	85.44	2.0	100	0	85.4	62	130	82.99	2.91	30	
Isophorone	79.19	1.0	100	0	79.2	52	130	82.83	4.49	30	
2-Methylnaphthalene	86.02	5.0	100	0	86	54	130	87.55	1.76	30	
2-Methylphenol	70.95	5.0	100	0	71	47	130	69.7	1.78	30	
4-Methylphenol	70.69	2.0	100	0	70.7	45	130	69.37	1.88	30	
Naphthalene	83.37	1.0	100	0	83.4	54	130	82.52	1.02	30	
2-Nitroaniline	104.1	5.0	100	0	104	60	130	98.33	5.67	30	
3-Nitroaniline	113.5	5.0	100	0	113	62	130	109.2	3.78	30	
4-Nitroaniline	101	5.0	100	0	101	56	130	103.7	2.65	30	
Nitrobenzene	85.56	1.0	100	0	85.6	50	130	87.95	2.75	30	
2-Nitrophenol	81.94	5.0	100	0	81.9	43	130	84.05	2.54	30	
4-Nitrophenol	107.1	1.1	100	0	107	52	130	104.5	2.50	30	
N-Nitrosodi-n-propylamine	81.81	2.0	100	0	81.8	60	130	81.8	0.0122	30	
N-Nitrosodiphenylamine	110.2	1.0	100	0	110	54	130	101.7	8.06	30	
Pentachlorophenol	89.15	5.0	100	0	89.2	49	130	84.05	5.89	30	
Phenanthrene	96.12	5.0	100	0	96.1	62	130	89.03	7.66	30	
Phenol	78.74	5.0	100	0	78.7	32	130	78.39	0.445	30	
Pyrene	99.06	1.0	100	0	99.1	54	130	93.2	6.10	30	
1,2,4-Trichlorobenzene	79.91	5.0	100	0	79.9	52	130	78.25	2.10	30	
2,4,5-Trichlorophenol	86.19	1.5	100	0	86.2	59	130	82.84	3.96	30	
2,4,6-Trichlorophenol	85.58	2.0	100	0	85.6	57	130	80.86	5.67	30	
Surr: 2,4,6-Tribromophenol	50.05	0	50	0	100	32	138	0	0	0	

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 H - Prep or analytical holding time exceeded  
 X - See case narrative



Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8270\_W

Sample ID: LCSD-20706	SampType: LCSD	TestCode: 8270_W	Run ID: GCMS1_090911A	Prep Date: 9/9/09	Units: µg/L						
	Batch ID: 20706	TestNo: SW 8270C	FileID: 091109\1G02886.D	Analysis Date: 9/12/09	SeqNo: 909623						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	42.84	0	50	0	85.7	45	130	0	0	0	
Surr: 2-Fluorophenol	33.25	0	50	0	66.5	43	130	0	0	0	
Surr: Nitrobenzene-d5	43.23	0	50	0	86.5	45	130	0	0	0	
Surr: Phenol-d6	35.55	0	50	0	71.1	47	130	0	0	0	
Surr: Terphenyl-d14	51.41	0	50	0	103	47	136	0	0	0	

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X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: ALK\_WGRP

Sample ID	MBLK 091409	SampType: MBLK	TestCode: ALK_WGRP	Run ID: ALK_090914A	Prep Date: 9/14/2009	Units: mg/L CaCO3					
		Batch ID: R49949	TestNo: SM2320B	FileID: 47	Analysis Date: 9/14/2009	SeqNo: 909248					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Alkalinity	U	5.0											
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Sample ID	LCS	SampType:	LCS	TestCode:	ALK_WGRP	Run ID:	ALK_090914A	Prep Date:	9/14/2009	Units:	mg/L CaCO3		
		Batch ID:	R49949	TestNo:	SM2320B	FileID:	48	Analysis Date:	9/14/2009	SeqNo:	909249		
Analyte		Result		LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Alkalinity	100.8	5.0	100	0	101	90	110	0	0				
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Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: COND\_W

Sample ID	LCS	SampType: LCS	TestCode: COND_W	Run ID: COND_090911A	Prep Date: 9/11/2009	Units: µmhos/cm					
		Batch ID: R49927	TestNo: SM2510 B	FileID: 95	Analysis Date: 9/11/2009	SeqNo: 908592					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	92.2	1.00	99.7	0	92.5	90	110	0	0		

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X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: F\_W

Sample ID	MBLK 09/14/09	SampType: MBLK	TestCode: F_W	Run ID: F_090914A	Prep Date: 9/14/2009	Units: mg/L						
		Batch ID: R49950	TestNo: SM 4500-F C	FileID: 47	Analysis Date: 9/14/2009	SeqNo: 909264						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride		U		0.20									
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Sample ID	LCS	SampType: LCS	TestCode: F_W	Run ID: F_090914A	Prep Date: 9/14/2009	Units: mg/L						
		Batch ID: R49950	TestNo: SM 4500-F C	FileID: 48	Analysis Date: 9/14/2009	SeqNo: 909265						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride		9.817		0.20		10		0		98.2		95		105		0		0	
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S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

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Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: PH\_DW

Sample ID	LCS-R49785	SampType: LCS	TestCode: PH_DW	Run ID: PH_090904A	Prep Date: 9/4/2009	Units: pH Units					
		Batch ID: R49785	TestNo: E150.1	FileID:	Analysis Date: 9/4/2009	SeqNo: 904832					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.98	1.00	8	0	99.8	99.3	100.7	0	0		

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X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: TDS\_W

Sample ID	MBLK 9/8/09	SampType: MBLK	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_090908A	Prep Date: 9/8/2009	Units: mg/L					
		Batch ID: R49858	TestNo: SM 2540C	FileID: 104	Analysis Date: 9/8/2009	SeqNo: 906860					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	U	10.0
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Sample ID	LCS	SampType: LCS	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_090908A	Prep Date: 9/8/2009	Units: mg/L						
		Batch ID: R49858	TestNo: SM 2540C	FileID: 105	Analysis Date: 9/8/2009	SeqNo: 906861						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	395	10.0	400	0	98.8	90	110	0	0
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R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_W

Sample ID: MB1,W	SampType: MBLK	TestCode: 8260_W	Run ID: VOA-5_090915A	Prep Date: 09/15/09	Units: µg/L						
	Batch ID: R50061	TestNo: SW8260B	FileID: 5V02474.D	Analysis Date: 09/15/09	SeqNo: 911416						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	U	10									
Benzene	U	1.0									
Bromodichloromethane	U	2.0									
Bromoform	U	4.0									
Bromomethane	U	4.0									
2-Butanone	U	5.0									
Carbon disulfide	U	2.0									
Carbon tetrachloride	U	2.0									
Chlorobenzene	U	2.0									
Chloroethane	U	4.0									
2-Chloroethylvinylether	U	4.0									
Chloroform	U	2.0									
Chloromethane	U	4.0									
Dibromochloromethane	U	2.0									
1,2-Dichlorobenzene	U	2.0									
1,3-Dichlorobenzene	U	2.0									
1,4-Dichlorobenzene	U	2.0									
1,1-Dichloroethane	U	2.0									
1,2-Dichloroethane	U	2.0									
1,1-Dichloroethene	U	2.0									
cis-1,2-Dichloroethene	U	2.0									
trans-1,2-Dichloroethene	U	2.0									
1,2-Dichloropropane	U	2.0									
cis-1,3-Dichloropropene	U	2.0									
trans-1,3-Dichloropropene	U	2.0									
Ethylbenzene	U	2.0									
2-Hexanone	U	2.0									
Methylene chloride	U	5.0									
4-Methyl-2-pentanone	U	2.0									

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Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_W

Sample ID: MB1,W	SampType: MBLK	TestCode: 8260_W	Run ID: VOA-5_090915A					Prep Date: 09/15/09	Units: µg/L		
	Batch ID: R50061	TestNo: SW8260B	FileID: 5V02474.D					Analysis Date: 09/15/09	SeqNo: 911416		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	U	4.0									
1,1,2,2-Tetrachloroethane	U	2.0									
Tetrachloroethene	U	2.0									
Toluene	U	2.0									
1,1,1-Trichloroethane	U	2.0									
1,1,2-Trichloroethane	U	2.0									
Trichloroethene	U	2.0									
Vinyl acetate	U	4.0									
Vinyl chloride	U	2.0									
Xylene, Total	U	4.0									
Surr: 1,2-Dichloroethane-d4	46.84	0	50	0	93.7	70	130	0	0		
Surr: 4-Bromofluorobenzene	43.32	0	50	0	86.6	70	130	0	0		
Surr: Toluene-d8	46.53	0	50	0	93.1	70	130	0	0		

Sample ID: <b>BS1,W hsl</b>	SampType: <b>LCS</b>	TestCode: <b>8260_W</b>	Run ID: <b>VOA-5_090915A</b>	Prep Date: <b>09/15/09</b>	Units: <b>µg/L</b>						
	Batch ID: <b>R50061</b>	TestNo: <b>SW8260B</b>	FileID: <b>5V02475.D</b>	Analysis Date: <b>09/15/09</b>	SeqNo: <b>911417</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	48.7	10	50	0	97.4	49	130	0	0		
Benzene	61.42	1.0	50	0	123	70	130	0	0		
Bromodichloromethane	58.08	2.0	50	0	116	70	130	0	0		
Bromoform	56.86	4.0	50	0	114	48	138	0	0		
Bromomethane	56.13	4.0	50	0	112	35	151	0	0		
2-Butanone	52.85	5.0	50	0	106	37	130	0	0		
Carbon disulfide	48.49	2.0	50	0	97	55	130	0	0		
Carbon tetrachloride	66.77	2.0	50	0	134	70	130	0	0		S
Chlorobenzene	60	2.0	50	0	120	70	130	0	0		
Chloroethane	57.71	4.0	50	0	115	70	130	0	0		
2-Chloroethylvinylether	38.38	4.0	50	0	76.8	22	185	0	0		
Chloroform	62.57	2.0	50	0	125	70	130	0	0		
Chloromethane	48.99	4.0	50	0	98	46	138	0	0		

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Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_W

Sample ID: BS1,W hsl	SampType: LCS	TestCode: 8260_W	Run ID: VOA-5_090915A	Prep Date: 09/15/09	Units: µg/L						
	Batch ID: R50061	TestNo: SW8260B	FileID: 5V02475.D	Analysis Date: 09/15/09	SeqNo: 911417						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	60.3	2.0	50	0	121	64	132	0	0		
1,2-Dichlorobenzene	56.45	2.0	50	0	113	53	146	0	0		
1,3-Dichlorobenzene	56.47	2.0	50	0	113	52	148	0	0		
1,4-Dichlorobenzene	55.57	2.0	50	0	111	57	136	0	0		
1,1-Dichloroethane	63.93	2.0	50	0	128	70	130	0	0		
1,2-Dichloroethane	56.58	2.0	50	0	113	70	130	0	0		
1,1-Dichloroethene	62.93	2.0	50	0	126	70	130	0	0		
cis-1,2-Dichloroethene	63.78	2.0	50	0	128	70	130	0	0		
trans-1,2-Dichloroethene	62.69	2.0	50	0	125	70	130	0	0		
1,2-Dichloropropane	58.84	2.0	50	0	118	70	130	0	0		
cis-1,3-Dichloropropene	59.31	2.0	50	0	119	67	130	0	0		
trans-1,3-Dichloropropene	55.66	2.0	50	0	111	66	130	0	0		
Ethylbenzene	63.79	2.0	50	0	128	70	130	0	0		
2-Hexanone	47.18	2.0	50	0	94.4	38	130	0	0		
Methylene chloride	57.59	5.0	50	0	115	70	130	0	0		
4-Methyl-2-pentanone	51.02	2.0	50	0	102	68	130	0	0		
Styrene	57.58	4.0	50	0	115	38	130	0	0		
1,1,2,2-Tetrachloroethane	52.28	2.0	50	0	105	70	130	0	0		
Tetrachloroethene	64.2	2.0	50	0	128	66	134	0	0		
Toluene	60.96	2.0	50	0	122	70	140	0	0		
1,1,1-Trichloroethane	62.39	2.0	50	0	125	70	130	0	0		
1,1,2-Trichloroethane	54.52	2.0	50	0	109	69	130	0	0		
Trichloroethene	64	2.0	50	0	128	70	130	0	0		
Vinyl acetate	57.68	4.0	50	0	115	50	130	0	0		
Vinyl chloride	51.83	2.0	50	0	104	58	135	0	0		
Xylene, Total	116.8	4.0	100	0	117	55	134	0	0		
Surr: 1,2-Dichloroethane-d4	49.83	0	50	0	99.7	70	130	0	0		
Surr: 4-Bromofluorobenzene	53.31	0	50	0	107	70	130	0	0		
Surr: Toluene-d8	51.42	0	50	0	103	70	130	0	0		

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R - RPD outside acceptance limits

B - Analyte detected in the associated Method Blank

H - Prep or analytical holding time exceeded

X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_W

Sample ID: 09-7170-01GMS	SampType: MS	TestCode: 8260_W	Run ID: VOA-5_090915A	Prep Date: 09/15/09	Units: µg/L						
Client ID: Meadows-Exterior	Batch ID: R50061	TestNo: SW8260B	FileID: 5V02479.D	Analysis Date: 09/15/09	SeqNo: 911421						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	43.37	10	50	0	86.7	21	130	0	0		
Benzene	58.97	1.0	50	0	118	59	132	0	0		
Bromodichloromethane	55.72	2.0	50	0	111	58	131	0	0		
Bromoform	53.66	4.0	50	0	107	45	140	0	0		
Bromomethane	56.78	4.0	50	0	114	20	171	0	0		
2-Butanone	48.5	5.0	50	0	97	37	130	0	0		
Carbon disulfide	45.23	2.0	50	0	90.5	41	132	0	0		
Carbon tetrachloride	63.65	2.0	50	0	127	70	130	0	0		
Chlorobenzene	57.23	2.0	50	0	114	70	130	0	0		
Chloroethane	54.56	4.0	50	0	109	55	143	0	0		
2-Chloroethylvinylether	U	4.0	50	0	0	20	168	0	0		S
Chloroform	59.83	2.0	50	0	120	69	130	0	0		
Chloromethane	45.65	4.0	50	0	91.3	25	148	0	0		
Dibromochloromethane	57.5	2.0	50	0	115	52	141	0	0		
1,2-Dichlorobenzene	53.62	2.0	50	0	107	40	148	0	0		
1,3-Dichlorobenzene	53.88	2.0	50	0	108	38	148	0	0		
1,4-Dichlorobenzene	53.26	2.0	50	0	107	43	136	0	0		
1,1-Dichloroethane	60.26	2.0	50	0	121	70	130	0	0		
1,2-Dichloroethane	54.07	2.0	50	0	108	62	130	0	0		
1,1-Dichloroethene	58.84	2.0	50	0	118	69	137	0	0		
cis-1,2-Dichloroethene	60.59	2.0	50	0	121	70	130	0	0		
trans-1,2-Dichloroethene	59.27	2.0	50	0	119	69	134	0	0		
1,2-Dichloropropane	57.37	2.0	50	0	115	63	131	0	0		
cis-1,3-Dichloropropene	56.61	2.0	50	0	113	51	134	0	0		
trans-1,3-Dichloropropene	53.07	2.0	50	0	106	50	130	0	0		
Ethylbenzene	61.07	2.0	50	0	122	68	130	0	0		
2-Hexanone	44.84	2.0	50	0	89.7	29	130	0	0		
Methylene chloride	55.16	5.0	50	0	110	58	139	0	0		
4-Methyl-2-pentanone	47.94	2.0	50	0	95.9	62	130	0	0		
Styrene	55.3	4.0	50	0	111	27	130	0	0		
1,1,2,2-Tetrachloroethane	50.49	2.0	50	0	101	61	140	0	0		

Qualifiers:

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J - Analyte detected below quantitation limits

S - Spike Recovery outside acceptance limits

E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits

B - Analyte detected in the associated Method Blank

H - Prep or analytical holding time exceeded

X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_W

Sample ID: 09-7170-01GMS	SampType: MS	TestCode: 8260_W	Run ID: VOA-5_090915A	Prep Date: 09/15/09	Units: µg/L						
Client ID: Meadows-Exterior	Batch ID: R50061	TestNo: SW8260B	FileID: 5V02479.D	Analysis Date: 09/15/09	SeqNo: 911421						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	60.93	2.0	50	0	122	61	134	0	0		
Toluene	57.19	2.0	50	0	114	56	142	0	0		
1,1,1-Trichloroethane	58.81	2.0	50	0	118	70	130	0	0		
1,1,2-Trichloroethane	52.27	2.0	50	0	105	52	135	0	0		
Trichloroethene	61.5	2.0	50	0	123	61	132	0	0		
Vinyl acetate	56.6	4.0	50	0	113	40	139	0	0		
Vinyl chloride	47.53	2.0	50	0	95.1	54	148	0	0		
Xylene, Total	111.1	4.0	100	0	111	36	146	0	0		
Surr: 1,2-Dichloroethane-d4	49.64	0	50	0	99.3	70	130	0	0		
Surr: 4-Bromofluorobenzene	51.72	0	50	0	103	70	130	0	0		
Surr: Toluene-d8	49.25	0	50	0	98.5	70	130	0	0		

Sample ID: 09-7170-01GMSD	SampType: MSD	TestCode: 8260_W	Run ID: VOA-5_090915A	Prep Date: 09/15/09	Units: µg/L						
Client ID: Meadows-Exterior	Batch ID: R50061	TestNo: SW8260B	FileID: 5V02480.D	Analysis Date: 09/15/09	SeqNo: 911422						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	39.82	10	50	0	79.6	21	130	43.37	8.53	30	
Benzene	59.72	1.0	50	0	119	59	132	58.97	1.26	30	
Bromodichloromethane	55.73	2.0	50	0	111	58	131	55.72	0.0179	30	
Bromoform	53.11	4.0	50	0	106	45	140	53.66	1.03	30	
Bromomethane	57.67	4.0	50	0	115	20	171	56.78	1.56	30	
2-Butanone	47.21	5.0	50	0	94.4	37	130	48.5	2.70	30	
Carbon disulfide	47.13	2.0	50	0	94.3	41	132	45.23	4.11	30	
Carbon tetrachloride	66.05	2.0	50	0	132	70	130	63.65	3.70	30	S
Chlorobenzene	58.38	2.0	50	0	117	70	130	57.23	1.99	30	
Chloroethane	58.27	4.0	50	0	117	55	143	54.56	6.58	30	
2-Chloroethylvinylether	U	4.0	50	0	0	20	168	0	0	30	S
Chloroform	60.63	2.0	50	0	121	69	130	59.83	1.33	30	
Chloromethane	47.44	4.0	50	0	94.9	25	148	45.65	3.85	30	
Dibromochloromethane	56.35	2.0	50	0	113	52	141	57.5	2.02	30	
1,2-Dichlorobenzene	53.9	2.0	50	0	108	40	148	53.62	0.521	30	

Qualifiers:

U - Not detected at or above the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside acceptance limits

E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits

B - Analyte detected in the associated Method Blank

H - Prep or analytical holding time exceeded

X - See case narrative

Work Order: 09-7170

Client Project ID:

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_W

Sample ID: 09-7170-01GMSD	SampType: MSD	TestCode: 8260_W	Run ID: VOA-5_090915A	Prep Date: 09/15/09	Units: µg/L						
Client ID: Meadows-Exterior	Batch ID: R50061	TestNo: SW8260B	FileID: 5V02480.D	Analysis Date: 09/15/09	SeqNo: 911422						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	54.77	2.0	50	0	110	38	148	53.88	1.64	30	
1,4-Dichlorobenzene	54.15	2.0	50	0	108	43	136	53.26	1.66	30	
1,1-Dichloroethane	61.99	2.0	50	0	124	70	130	60.26	2.83	30	
1,2-Dichloroethane	53.96	2.0	50	0	108	62	130	54.07	0.204	30	
1,1-Dichloroethene	61.38	2.0	50	0	123	69	137	58.84	4.23	30	
cis-1,2-Dichloroethene	62.13	2.0	50	0	124	70	130	60.59	2.51	30	
trans-1,2-Dichloroethene	61.56	2.0	50	0	123	69	134	59.27	3.79	30	
1,2-Dichloropropane	57.75	2.0	50	0	116	63	131	57.37	0.660	30	
cis-1,3-Dichloropropene	56.14	2.0	50	0	112	51	134	56.61	0.834	30	
trans-1,3-Dichloropropene	52.27	2.0	50	0	105	50	130	53.07	1.52	30	
Ethylbenzene	62.9	2.0	50	0	126	68	130	61.07	2.95	30	
2-Hexanone	41.65	2.0	50	0	83.3	29	130	44.84	7.38	30	
Methylene chloride	56.7	5.0	50	0	113	58	139	55.16	2.75	30	
4-Methyl-2-pentanone	45.17	2.0	50	0	90.3	62	130	47.94	5.95	30	
Styrene	55.91	4.0	50	0	112	27	130	55.3	1.10	30	
1,1,2,2-Tetrachloroethane	47.99	2.0	50	0	96	61	140	50.49	5.08	30	
Tetrachloroethene	63.5	2.0	50	0	127	61	134	60.93	4.13	30	
Toluene	59.37	2.0	50	0	119	56	142	57.19	3.74	30	
1,1,1-Trichloroethane	60.68	2.0	50	0	121	70	130	58.81	3.13	30	
1,1,2-Trichloroethane	50.39	2.0	50	0	101	52	135	52.27	3.66	30	
Trichloroethene	62.47	2.0	50	0	125	61	132	61.5	1.56	30	
Vinyl acetate	55.25	4.0	50	0	111	40	139	56.6	2.41	30	
Vinyl chloride	50.19	2.0	50	0	100	54	148	47.53	5.44	30	
Xylene, Total	113.7	4.0	100	0	114	36	146	111.1	2.33	30	
Surr: 1,2-Dichloroethane-d4	47.44	0	50	0	94.9	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	50.32	0	50	0	101	70	130	0	0	0	
Surr: Toluene-d8	48.61	0	50	0	97.2	70	130	0	0	0	

## Qualifiers:

U - Not detected at or above the Reporting Limit

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B - Analyte detected in the associated Method Blank

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X - See case narrative

September 24, 2009

Peter Gintautas  
Colorado Oil & Gas Conservation Comm.  
PO Box 108  
Trinidad, CO 81082

Lab Work Order: 09-7170  
Client Project ID: Meadows Damelio

Dear Peter Gintautas:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary.

**THE INVOICE WILL BE MAILED FROM OUR NEW JERSEY OFFICE UNDER SEPARATE COVER.**

The enclosed data for testing performed at Accutest Laboratory (formerly Evergreen Analytical) have been reviewed for quality assurance. A case narrative is included to describe any anomalies associated with the samples or data.

Accutest will dispose of all samples 44 days from the sample receipt date. If you want samples returned, please advise us by mail or fax as soon as possible.

A copy of this project report and supporting data will be retained for a period of five years unless we are otherwise advised by you. A document retrieval charge will apply.

Thank you for using the services of Accutest Laboratories. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,



Joseph J Egry IV/ Tiffany Pham  
Quality Assurance