

# 001 WORK ORDER Summary Evergreen Analytical, Inc. 09-6082

Rpt To: Peter Gintautas

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

Colorado Oil & Gas Conservation

Comm.

PO Box 108

Trinidad, CO 81082

(719) 846-3091

8/12/2009 3:42:30 PM

Client Project ID: Complaint 200213187

QC Level: Level I+

Comments: EDD in COGCC format, PDF

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
09-6082-01A	SFPD 080911 WW	Water	8/11/09 1012	8/12/09	8260_W *	8260B: VOA HSL	<input type="checkbox"/>	<input type="checkbox"/>	8/26/09	8/25/09
09-6082-01A	SFPD 080911 WW	Water	8/11/09 1012	8/12/09	VOATICS	VOA TICS (largest 10)	<input type="checkbox"/>	<input type="checkbox"/>	8/26/09	8/25/09
09-6082-01B	SFPD 080911 WW	Water	8/11/09 1012	8/12/09	MEBP_W *	RSK175M: MEE	<input type="checkbox"/>	<input type="checkbox"/>	8/26/09	8/25/09
09-6082-01C	SFPD 080911 WW	Water	8/11/09 1012	8/12/09	ALK_WGRP *	Alkalinity	<input type="checkbox"/>	<input type="checkbox"/>	8/26/09	8/25/09
09-6082-01C	SFPD 080911 WW	Water	8/11/09 1012	8/12/09	ANIONS_NonDW *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	8/26/09	8/13/09
09-6082-01C	SFPD 080911 WW	Water	8/11/09 1012	8/12/09	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	8/26/09	9/08/09

Definitions: \* - Test Code has a Select List



## Paragon Analytics

A Division of DataChem Laboratories, Inc.

**225 Commerce Drive Fort Collins, CO 80524**  
**800-443-1511 or (970) 490-1511 (970) 490-1522 Fax**

Accession Number (LAB ID) \_\_\_\_\_  
 Chain-of-Custody Date 4/18/09 Page 1 of 1  
Originator: Retain pink copy \_\_\_\_\_

Project Name/No.: \_\_\_\_\_  
 Samples(s): 5mTautas  
 Turnaround (circle one) Standard or Rush (Due 1/14/15)  
 Dispose: Date 1/14/15 or Return to Client \_\_\_\_\_

Report To: Peter Givanti

phone: 710-601-3001

fax: 1106-963-611

E-mail: peter.gintant@octo.com

Company: California Design Co.

Address: C-1 + 545 Leas. Comm

Complaint-2002-13187

Circle method (right); provide additional information as needed (comments)

Sample ID	Date	Time *	Lab ID
			Matrix
			Preservative (indicate type... HCl, etc.)
			No. of Containers
			VOCs
			<del>BTEX (only)</del> Methane
			SVOCs
			OC Pesticides
			PCBs
			Herbicides
			Explosives
			TCLP Organics SW1311
			TCLP Metals SW1311 Hg
			Total Metals by ICP Hg
			Dissolved Metals by ICP Hg
			Total Metals by ICP/MS
			Dissolved Metals by ICP/MS
			Hexavalent Chromium
			Inorganic Anions
			Solids:
			pH
			TPH Alkalinity
			Gross Alpha / Beta
			Actinides by Paragon SOP
			Tritium
			Total Alpha-Emitting Radium
			Radium 226
			Radium 228
			Strontium 90 (Total RadioSr)
			Gamma Isotopes
			Radon 222

paper copy to Peter Sinterus 1066 PO Box 105 Trinidad 10 31082  
 PDF + CSV via email to Gintaras 1066 PO Box 105 Suite 801 Denver 10 80203  
 Invoice to Margaret Ash 1066 1130 Lincoln St Suite 801 Denver 10 80203

Time Zone: EST CST MST PST Matrix Key: O = oil, S = soil, NS = non-soil solid, W = water, L = liquid, E = extract, F = filter

$$ANMS = Cl, NO_2, NO_3, F, SO_4$$

Form 202r6.xls (6/16/06

Relinquished By:		Relinquished By:	
Signature	<u>[Signature]</u>	Signature	<u>[Signature]</u>
Printed Name	<u>Robert A. [Name]</u>	Printed Name	<u>[Name]</u>
Date	<u>11/19/10</u>	Date	<u>[Date]</u>
Company	<u>[Company]</u>	Company	<u>[Company]</u>
Received By:	(1)	Received By:	(2)
Signature	<u>[Signature]</u>	Signature	<u>[Signature]</u>
Printed Name	<u>[Name]</u>	Printed Name	<u>J. Dechant</u>
Date	<u>[Date]</u>	Date	<u>8/12/10</u>
Company	<u>[Company]</u>	Company	<u>Acetech</u>

**Evergreen Analytical, Inc.**

**Date:** 21-Aug-09

**Lab Order:** 09-6082

**Client Project ID** Complaint 200213187

## **CASE NARRATIVE**

### **SAMPLE RECEIVING**

Custody seals were present and intact.

The temperature of the sample(s) upon arrival was 4.0°C.

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

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

VOC sample(s) were received with no headspace present. JD

### **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 RCRA samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained. JE

### **CLIENT SERVICES**

There are no anomalies to report. PM

### **GENERAL CHEMISTRY**

Method 300.0: The sample has a high conductivity level and high Chloride level, which required dilution of the sample to avoid saturating the detector. This raised the reporting limit for Nitrite-N. There are no other anomalies to report. JML/MM/JE

### **GAS CHROMATOGRAPHY**

Method RSK175: There are no anomalies to report. AS

### **GAS CHROMATOGRAPHY/MASS SPECTROMETRY**

Method 8260\_W: The matrix spike (MS; on another client's sample) showed low recovery of 2-Chloroethylvinylether due to the acid preservation in the sample, which destroys this compound. There are no further anomalies to report. CLA

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

004

**Client Sample ID:** SFPD 080911 WW  
**Client Project ID:** Complaint 200213187  
**Date Collected:** 8/11/2009  
**Date Received:** 8/12/2009  
**Date Prepared:** 8/12/2009  
**Date Analyzed:** 8/12/2009  
**Percent Moisture** NA

**Lab Work Order** 09-6082  
**Lab Sample ID:** 09-6082-01A  
**Sample Matrix:** Water  
**Lab File ID:** 3V02045.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	1.7 J	2.0
Bromoform	75-25-2	6.6	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	1.4 J	2.0
Chloromethane	74-87-3	U	4.0
Dibromochloromethane	124-48-1	2.9	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: 8/13/2009

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

005

**Client Sample ID:** SFPD 080911 WW  
**Client Project ID:** Complaint 200213187  
**Date Collected:** 08/11/09  
**Date Received:** 08/12/09  
**Date Prepared:** 08/12/09  
**Date Analyzed:** 08/12/09  
**Percent Moisture** NA

**Lab Work Order** 09-6082  
**Lab Sample ID:** 09-6082-01A  
**Sample Matrix:** Water  
**Lab File ID:** 3V02045.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
Tetrahydrofuran	109-99-9	6.2	4.0
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	114	QC Limits: 70-130 %REC
Surr: 4-Bromofluorobenzene	460-00-4	88	QC Limits: 70-130 %REC
Surr: Toluene-d8	2037-26-5	108	QC Limits: 70-130 %REC

  
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**Analyst**

  
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**Approved**

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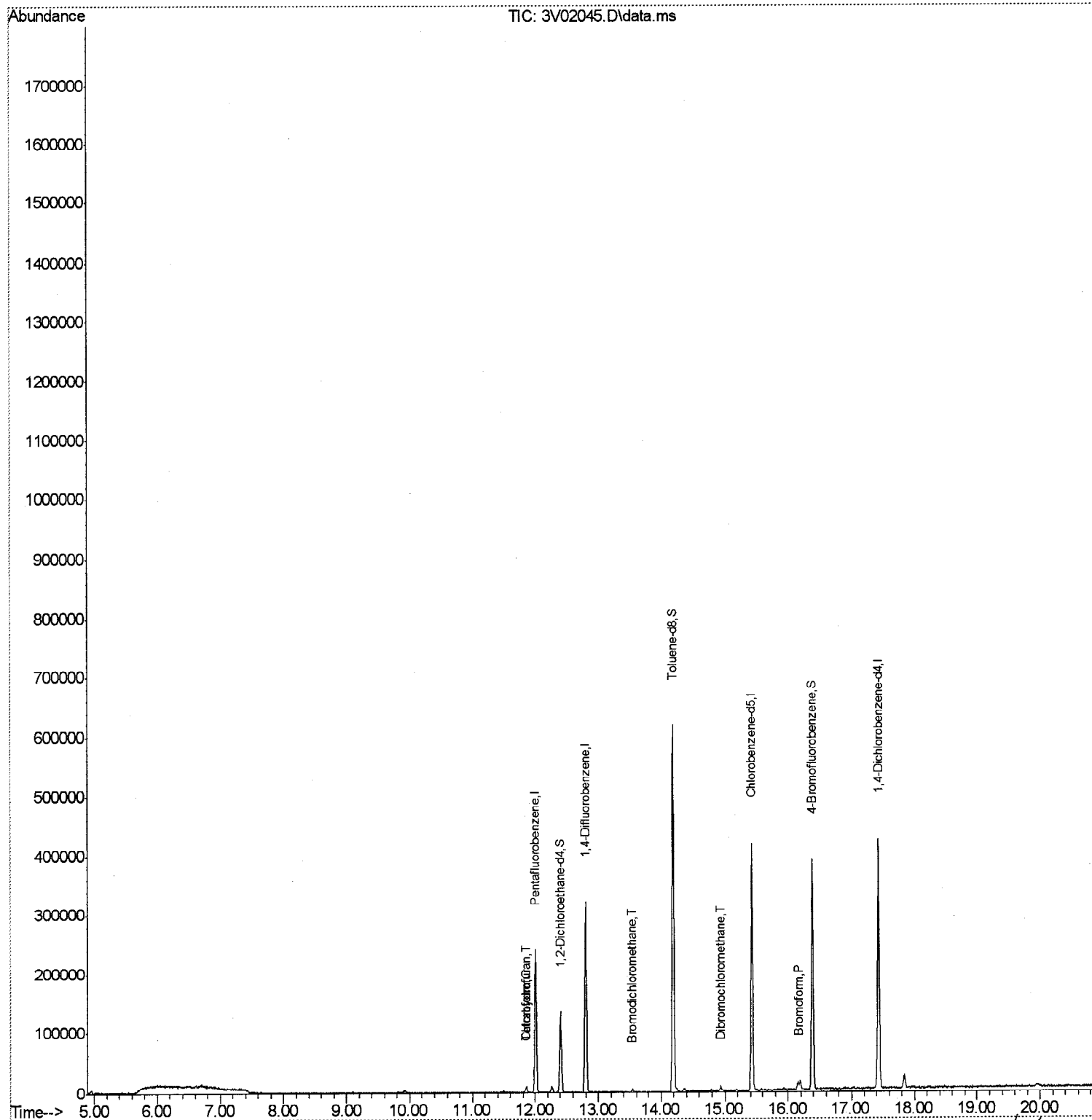
**Qualifiers:** U - Analyte not detected at or above the reporting limit  
J - Estimated value below the LQL

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

Print Date: 08/14/09

Data Path : C:\msdchem\1\DATA\VOA3DATA\V3V86\  
Data File : 3V02045.D  
Acq On : 12 Aug 2009 8:45 pm  
Operator : DONC  
Sample : 09-6082-01A  
Misc : ,SAMP,8260\_W,1,MS177,V3V86,,,,,1  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 13 10:22:18 2009  
Quant Method : C:\HPCHEM\1\METHODS\V3H71T73.M  
Quant Title : 8260  
QLast Update : Mon Aug 03 15:47:20 2009  
Response via : Initial Calibration



8/13/09

Data Path : C:\msdchem\1\DATA\VOA3DATA\V3V86\  
Data File : 3V02045.D  
Acq On : 12 Aug 2009 8:45 pmm  
Operator : DONCC  
Sample : 09-6082-01AA  
Misc : ,SAMP,8260\_W,1,MS177,V3V86,,,,,11  
ALS Vial : 21 Sample Multiplier: 11

Quant Method : C:\HPCHEM\1\METHODS\V3H71T73.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---|

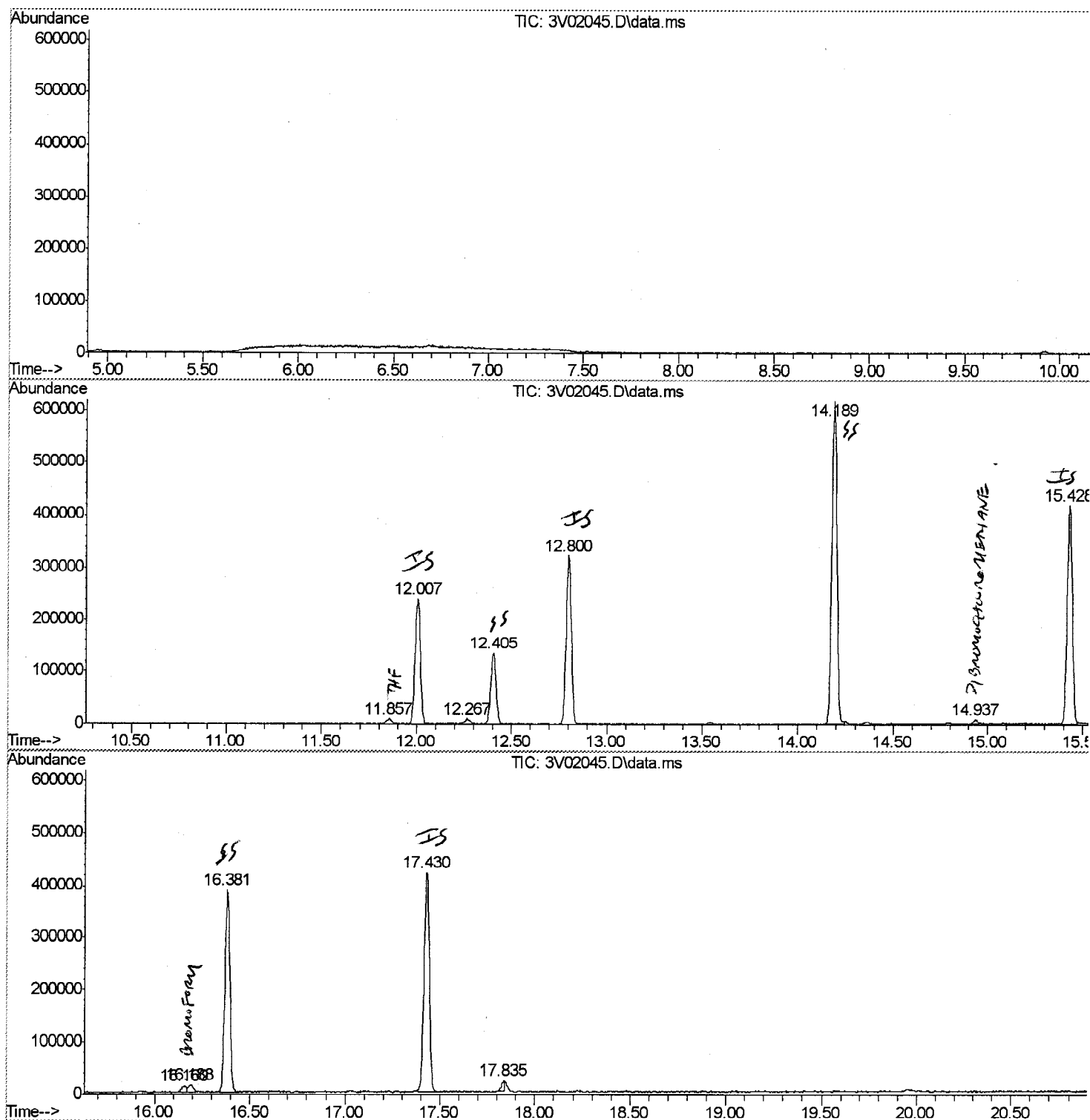
No Library Search Compounds Detected

\*\*\*\*\*

Data Path : C:\msdchem\1\DATA\VOA3DATA\V3V86\  
Data File : 3V02045.D  
Acq On : 12 Aug 2009 8:45 pm  
Operator : DONC  
Sample : 09-6082-01A  
Misc : ,SAMP,8260\_W,1,MS177,V3V86,,,,,1  
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\HPCHEM\1\METHODS\V3H71T73.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:** SFPD 080911 WW  
**Client Project ID:** Complaint 200213187  
**Date Collected:** 8/11/09  
**Date Received:** 8/12/09

**Lab Work Order:** 09-6082  
**Lab Sample ID:** 09-6082-01  
**Sample Matrix:** Water

**RSKSOP-175M HEADSPACE**

**Method:** RSKSOP175M

**Prep Method:** RSKSOP175M

**Date Prepared:** 8/12/09  
**Date Analyzed:** 8/12/09

**Lab File ID:** FB406  
**Method Blank:** GB081209

**Dilution Factor:** 1  
**Lab Fraction ID:** 09-6082-01B

Analytes	CAS Number	Result	LQL	Units
Ethane	74-84-0	0.0025	0.0016	mg/L
Ethene	74-85-1	U	0.0024	mg/L

**Date Prepared:** 8/12/09  
**Date Analyzed:** 8/12/09

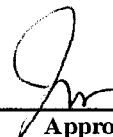
**Lab File ID:** FB408  
**Method Blank:** GB081209

**Dilution Factor:** 10  
**Lab Fraction ID:** 09-6082-01B

Analytes	CAS Number	Result	LQL	Units
Methane	74-82-8	3.9	0.0080	mg/L

AS

\_\_\_\_\_  
 Analyst



\_\_\_\_\_  
 Approved

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 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: 08/12/09

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

010

**Client Sample ID:** SFPD 080911 WW  
**Client Project ID:** Complaint 200213187  
**Date Collected:** 8/11/09  
**Date Received:** 8/12/09

**Lab Work Order** 09-6082  
**Lab Sample ID:** 09-6082-01  
**Sample Matrix:** Water

**ALKALINITY**

**Method:** SM2320B

**Prep Method:**

**Date Prepared:** 8/13/09

**Lab File ID:** 59

**Dilution Factor:** 1

**Date Analyzed:** 8/13/09

**Method Blank:** MBLK 8/13/09

**Lab Fraction ID:** 09-6082-01C

Analytes	CAS Number	Result	LQL	Units
Total Alkalinity		300	5.0	mg/L CaCO3

**FLUORIDE**

**Method:** SM 4500-F C

**Prep Method:**

**Date Prepared:** 8/13/09

**Lab File ID:** 4

**Dilution Factor:** 1

**Date Analyzed:** 8/13/09

**Method Blank:** MBLK 08/13/09

**Lab Fraction ID:** 09-6082-01C

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	1.6	0.20	mg/L

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

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H - Sample analysis exceeded analytical holding time  
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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: 8/14/2009

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

011

**Client Sample ID:** SFPD 080911 WW  
**Client Project ID:** Complaint 200213187  
**Date Collected:** 8/11/09 1012  
**Date Received:** 8/12/09

**Lab Work Order** 09-6082  
**Lab Sample ID:** 09-6082-01  
**Sample Matrix:** Water

**ANIONS BY IC**

**Method:** E300.0

**Prep Method:**

**Date Prepared:** 8/12/09  
**Date Analyzed:** 8/12/09 1407

**Method Blank:** MB 08/12/09

**Dilution Factor:** 2  
**Lab Fraction ID:** 09-6082-01C

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	56.6	1.0	mg/L
Nitrite		U	0.40	mg/L
Nitrate		5.09	0.40	mg/L
Sulfate	7778-80-2	41.5	1.0	mg/L

  
Analyst

  
Approved

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H - Sample analysis exceeded analytical holding time  
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**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 8/13/09

## **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.**

Work Order: 09-6082  
Client Project ID: Complaint 200213187

# ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_W

Sample ID: MB1,W	Sample Type: MBLK	Test Code: 8260_W	Run ID: VOA-3_090812A	Prep Date: 8/12/2009	Units: µg/L						
Batch ID: R49235	Test No: SW8260B	File ID: 3V02028.D	Analysis Date: 8/12/2009	Seq No: 891302							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	Low limit	High limit	RPD Ref Val	%RPD	RPD Limit	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									

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:** 09-6082  
**Client Project ID:** Complaint 200213187

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260 W**

Sample ID: MB1,W	SamptType: MBLK	TestCode: 8260_W	Run ID: VOA-3_090812A	Prep Date: 8/12/2009	Units: µg/L
Batch ID: R49235	TestNo: SW8260B	FileID: 3V02028.D	Analysis Date: 8/12/2009	SeqNo: 891302	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC
					LowLimit
					HighLimit
					RPD Ref Val
					%RPD
					RPDLimit
					Qual

[illegible]

Sample ID:	BS1.W\hsl	Sample Type:	LCS	Test Code:	8260_W	Run ID:	VOA-3_090812A	Prep Date:	8/12/2009	Units:	µg/L
Batch ID:	R49235	Test No:	SW8260B	Field ID:	3V02029.D	Analysis Date:	8/12/2009	Seq No:	891303		
Analyte	Result	LCL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	61.04	10	50	0	122	49	130	0	0		
Benzene	57.69	1.0	50	0	115	70	130	0	0		
Bromodichloromethane	53.37	2.0	50	0	107	70	130	0	0		
Bromoform	45.8	4.0	50	0	91.6	48	138	0	0		
Bromomethane	53.25	4.0	50	0	107	38	170	0	0		
2-Butanone	49.27	5.0	50	0	98.5	37	130	0	0		
Carbon disulfide	50.93	2.0	50	0	102	55	130	0	0		
Carbon tetrachloride	60.25	2.0	50	0	121	70	130	0	0		
Chlorobenzene	55.57	2.0	50	0	111	70	130	0	0		
Chloroethane	56.31	4.0	50	0	113	70	130	0	0		
2-Chloroethylvinyether	10.36	4.0	50	0	20.7	20	185	0	0		
Chloroform	61.47	2.0	50	0	123	70	130	0	0		
Chloromethane	50.25	4.0	50	0	101	46	138	0	0		

**Qualifiers:**

U - Not detected at or above the Reporting Limit	R - RPD outside acceptance limits
J - Analyte detected below quantitation limits	B - Analyte detected in the associated Method Blank
S - Spike Recovery outside acceptance limits	H - Prep or analytical holding time exceeded
E - Extrapolated value, value exceeds calibration range.	X - See case narrative

Work Order: 09-6082  
Client Project ID: Complaint 200213187

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_W

Sample ID: BS1,W hsl	Sample Type: LCS	TestCode: 8260_W	Run ID: VOA-3_090812A	Prep Date: 8/12/2009	Units: µg/L						
Batch ID: R49235	TestNo: SW8260B	FieldID: 3V02029.D	Analysis Date: 8/12/2009	SeqNo: 891303							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	53.82	2.0	50	0	108	64	132	0	0		
1,2-Dichlorobenzene	49.99	2.0	50	0	100	53	146	0	0		
1,3-Dichlorobenzene	50.61	2.0	50	0	101	52	148	0	0		
1,4-Dichlorobenzene	50.39	2.0	50	0	101	57	136	0	0		
1,1-Dichloroethane	60.55	2.0	50	0	121	70	130	0	0		
1,2-Dichloroethane	51.47	2.0	50	0	103	70	130	0	0		
1,1-Dichloroethene	60.62	2.0	50	0	121	70	130	0	0		
cis-1,2-Dichloroethene	59.72	2.0	50	0	119	70	130	0	0		
trans-1,2-Dichloroethene	61.78	2.0	50	0	124	70	130	0	0		
1,2-Dichloropropane	54.11	2.0	50	0	108	70	130	0	0		
cis-1,3-Dichloropropene	50.21	2.0	50	0	100	67	130	0	0		
trans-1,3-Dichloropropene	46.78	2.0	50	0	93.6	66	130	0	0		
Ethylbenzene	59.91	2.0	50	0	120	70	130	0	0		
2-Hexanone	40.33	2.0	50	0	80.7	39	135	0	0		
Methylene chloride	56.75	5.0	50	0	114	70	130	0	0		
4-Methyl-2-pentanone	45.77	2.0	50	0	91.5	61	130	0	0		
Styrene	52.04	4.0	50	0	104	38	130	0	0		
1,1,2,2-Tetrachloroethane	47.85	2.0	50	0	95.7	70	130	0	0		
Tetrachloroethene	56.69	2.0	50	0	113	66	134	0	0		
Toluene	57.02	2.0	50	0	114	70	140	0	0		
1,1,1-Trichloroethane	56.61	2.0	50	0	113	70	130	0	0		
1,1,2-Trichloroethane	53.1	2.0	50	0	106	69	130	0	0		
Trichloroethene	60.06	2.0	50	0	120	70	130	0	0		
Vinyl acetate	39.18	4.0	50	0	78.4	50	130	0	0		
Vinyl chloride	50.47	2.0	50	0	101	58	135	0	0		
Xylene, Total	106.4	4.0	100	0	106	55	134	0	0		
Surr: 1,2-Dichloroethane-d4	55.08	0	50	0	110	70	130	0	0		
Surr: 4-Bromofluorobenzene	48.61	0	50	0	97.2	70	130	0	0		
Surr: Toluene-d8	53.79	0	50	0	108	70	130	0	0		

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Work Order: 09-6082  
Client Project ID: Complaint 200213187

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_W

Sample ID: 09-6085-01AMS	Sample Type: MS	TestCode: 8260_W	Run ID: VOA-3_090812A	Prep Date: 8/12/2009	Units: µg/L						
Batch ID: R49235	TestNo: SW8260B	FileID: 3V02031.D	Analysis Date: 8/12/2009	SeqNo: 891305							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	57.15	10	50	0	114	21	130	0	0		
Benzene	56.08	1.0	50	0	112	59	132	0	0		
Bromodichloromethane	51.73	2.0	50	0	103	58	131	0	0		
Bromoform	44.52	4.0	50	0	89	45	140	0	0		
Bromomethane	52.1	4.0	50	0	104	53	155	0	0		
2-Butanone	50.61	5.0	50	0	101	37	130	0	0		
Carbon disulfide	48.48	2.0	50	0	97	41	132	0	0		
Carbon tetrachloride	58.99	2.0	50	0	118	70	130	0	0		
Chlorobenzene	54.75	2.0	50	0	110	65	133	0	0		
Chloroethane	55	4.0	50	0	110	55	143	0	0		
2-Chloroethylvinylether	9.13	4.0	50	0	18.3	20	168	0	0		
Chloroform	58.47	2.0	50	0	117	69	130	0	0		
Chloromethane	48.76	4.0	50	0	97.5	48	156	0	0		
Dibromochloromethane	52.05	2.0	50	0	104	52	141	0	0		
1,2-Dichlorobenzene	50.59	2.0	50	0	101	40	148	0	0		
1,3-Dichlorobenzene	51.36	2.0	50	0	103	38	148	0	0		
1,4-Dichlorobenzene	52.08	2.0	50	0	104	43	136	0	0		
1,1-Dichloroethane	57.67	2.0	50	0	115	70	130	0	0		
1,2-Dichloroethane	50.02	2.0	50	0	100	62	130	0	0		
1,1-Dichloroethene	58.33	2.0	50	0	117	69	137	0	0		
cis-1,2-Dichloroethene	57.77	2.0	50	0	116	70	130	0	0		
trans-1,2-Dichloroethene	59.55	2.0	50	0	119	69	134	0	0		
1,2-Dichloropropane	53.34	2.0	50	0	107	63	131	0	0		
cis-1,3-Dichloropropene	49.22	2.0	50	0	98.4	51	134	0	0		
trans-1,3-Dichloropropene	46.26	2.0	50	0	92.5	50	130	0	0		
Ethylbenzene	58.47	2.0	50	0	117	68	130	0	0		
2-Hexanone	38	2.0	50	0	76	45	132	0	0		
Methylene chloride	55.69	5.0	50	0	111	58	139	0	0		
4-Methyl-2-pentanone	43.46	2.0	50	0	86.9	62	130	0	0		
Styrene	51.95	4.0	50	0	104	27	130	0	0		
1,1,2,2-Tetrachloroethane	47.55	2.0	50	0	95.1	61	140	0	0		

S

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Work Order: 09-6082  
Client Project ID: Complaint 200213187

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_W

Sample ID: 09-6085-01AMS	Sample Type: MS	TestCode: 8260_W	Run ID: VOA-3_090812A	Prep Date: 8/12/2009	Units: µg/L						
Batch ID: R49235	TestNo: SW8260B	FileID: 3V02031.D	Analysis Date: 8/12/2009	SeqNo: 891305							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Tetrachloroethene	55.75	2.0	50	0	112	61	134	0	0		
Toluene	55.86	2.0	50	0	112	56	142	0	0		
1,1,1-Trichloroethane	55.52	2.0	50	0	111	70	130	0	0		
1,1,2-Trichloroethane	51.12	2.0	50	0	102	52	135	0	0		
Trichloroethene	59.33	2.0	50	0	119	61	132	0	0		
Vinyl acetate	36.14	4.0	50	0	72.3	40	139	0	0		
Vinyl chloride	48.81	2.0	50	0	97.6	54	148	0	0		
Xylene, Total	104.9	4.0	100	0	105	36	132	0	0		
Surr: 1,2-Dichloroethane-d4	54.79	0	50	0	110	70	130	0	0		
Surr: 4-Bromofluorobenzene	49.69	0	50	0	99.4	70	130	0	0		
Surr: Toluene-d8	53.65	0	50	0	107	70	130	0	0		

Sample ID: 09-6085-01AMS	Sample Type: MSD	TestCode: 8260_W	Run ID: VOA-3_090812A	Prep Date: 8/12/2009	Units: µg/L						
Batch ID: R49235	TestNo: SW8260B	FileID: 3V02032.D	Analysis Date: 8/12/2009	SeqNo: 891306							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	62.59	10	50	0	125	21	130	57.15	9.09	30	
Benzene	57.63	1.0	50	0	115	59	132	56.08	2.73	30	
Bromodichloromethane	52.89	2.0	50	0	106	58	131	51.73	2.22	30	
Bromoform	44.82	4.0	50	0	89.6	45	140	44.52	0.672	30	
Bromomethane	53.49	4.0	50	0	107	53	155	52.1	2.63	30	
2-Butanone	49.54	5.0	50	0	99.1	37	130	50.61	2.14	30	
Carbon disulfide	49.17	2.0	50	0	98.3	41	132	48.48	1.41	30	
Carbon tetrachloride	60.04	2.0	50	0	120	70	130	58.99	1.76	30	
Chlorobenzene	55.23	2.0	50	0	110	65	133	54.75	0.873	30	
Chloroethane	55.43	4.0	50	0	111	55	143	55	0.779	30	
2-Chloroethyvinylether	10.38	4.0	50	0	20.8	20	168	9.13	12.8	30	
Chloroform	59.48	2.0	50	0	119	69	130	58.47	1.71	30	
Chloromethane	49.97	4.0	50	0	99.9	48	156	48.76	2.45	30	
Dibromochloromethane	53.47	2.0	50	0	107	52	141	52.05	2.69	30	
1,2-Dichlorobenzene	50.61	2.0	50	0	101	40	148	50.59	0.0395	30	

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Work Order: 09-6082  
Client Project ID: Complaint 200213187

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_W

Sample ID: 09-6085-01A1MSD	Sample Type: MSD	TestCode: 8260_W	Run ID: VOA-3_090812A	Prep Date: 8/12/2009	Units: µg/L						
Batch ID: R49235	TestNo: SW8260B	FileID: 3V02032.D	Analysis Date: 8/12/2009	SeqNo: 891306							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	50.61	2.0	50	0	101	38	148	51.36	1.47	30	
1,4-Dichlorobenzene	51.45	2.0	50	0	103	43	136	52.08	1.22	30	
1,1-Dichloroethane	57.94	2.0	50	0	116	70	130	57.67	0.467	30	
1,2-Dichloroethane	49.94	2.0	50	0	99.9	62	130	50.02	0.160	30	
1,1-Dichloroethene	58.96	2.0	50	0	118	69	137	58.33	1.07	30	
cis-1,2-Dichloroethene	58.27	2.0	50	0	117	70	130	57.77	0.862	30	
trans-1,2-Dichloroethene	60.69	2.0	50	0	121	69	134	59.55	1.90	30	
1,2-Dichloropropane	54.03	2.0	50	0	108	63	131	53.34	1.29	30	
cis-1,3-Dichloropropene	49.76	2.0	50	0	99.5	51	134	49.22	1.09	30	
trans-1,3-Dichloropropene	47.03	2.0	50	0	94.1	50	130	46.26	1.65	30	
Ethylbenzene	58.82	2.0	50	0	118	68	130	58.47	0.597	30	
2-Hexanone	38.43	2.0	50	0	76.9	45	132	38	1.13	30	
Methylene chloride	55.87	5.0	50	0	112	58	139	55.69	0.323	30	
4-Methyl-2-pentanone	43.52	2.0	50	0	87	62	130	43.46	0.138	30	
Styrene	52.19	4.0	50	0	104	27	130	51.95	0.461	30	
1,1,2,2-Tetrachloroethane	48.64	2.0	50	0	97.3	61	140	47.55	2.27	30	
Tetrachloroethene	56.27	2.0	50	0	113	61	134	55.75	0.928	30	
Toluene	56.74	2.0	50	0	113	56	142	55.86	1.56	30	
1,1,1-Trichloroethane	56.83	2.0	50	0	114	70	130	55.52	2.33	30	
1,1,2-Trichloroethane	52.78	2.0	50	0	106	52	135	51.12	3.20	30	
Trichloroethene	58.89	2.0	50	0	118	61	132	59.33	0.744	30	
Vinyl acetate	36.05	4.0	50	0	72.1	40	139	36.14	0.249	30	
Vinyl chloride	49.31	2.0	50	0	98.6	54	148	48.81	1.02	30	
Xylene, Total	105.6	4.0	100	0	106	36	132	104.9	0.655	30	
Surr: 1,2-Dichloroethane-d4	53.47	0	50	0	107	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	48.78	0	50	0	97.6	70	130	0	0	0	
Surr: Toluene-d8	53.8	0	50	0	108	70	130	0	0	0	

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Work Order: 09-6082  
Client Project ID: Complaint 200213187

# ANALYTICAL QC SUMMARY REPORT

TestCode: MEEP\_W

Sample ID	GB081209	SampleType: MBLK	TestCode: MEEP_W	Run ID: FID4_090812A	Prep Date: 8/12/2009	Units: mg/L
Batch ID:	GAS081209	TestNo: RSKSOP175	FileID: FB391	Analysis Date: 8/12/2009	SeqNo: 890737	
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	LCS081209	SampleType: LCS	TestCode: MEEP_W	Run ID: FID4_090812A	Prep Date: 8/12/2009	Units: mg/L
Batch ID:	GAS081209	TestNo: RSKSOP175	FileID: FB392	Analysis Date: 8/12/2009	SeqNo: 890738	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Ethane 1.015 0.016 0.9548 0 106 70 130 0 0  
Ethene 1.114 0.024 1.11 0 100 70 140 0 0  
Methane 0.5203 0.0080 0.5094 0 102 70 130 0 0

Sample ID	LCSD081209	SampleType: LCSD	TestCode: MEEP_W	Run ID: FID4_090812A	Prep Date: 8/12/2009	Units: mg/L
Batch ID:	GAS081209	TestNo: RSKSOP175	FileID: FB393	Analysis Date: 8/12/2009	SeqNo: 890739	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Ethane 1.025 0.016 0.9548 0 107 70 130 1.015 1.01 30  
Ethene 1.126 0.024 1.11 0 101 70 140 1.114 1.07 30  
Methane 0.523 0.0080 0.5094 0 103 70 130 0.5203 0.512 30

Sample ID	09-6083-01BMS	SampleType: MS	TestCode: MEEP_W	Run ID: FID4_090812A	Prep Date: 8/12/2009	Units: mg/L
Batch ID:	GAS081209	TestNo: RSKSOP175	FileID: FB410	Analysis Date: 8/12/2009	SeqNo: 890734	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Ethane 1.151 0.016 0.9548 0 121 70 130 0 0  
Ethene 1.273 0.024 1.11 0 115 70 140 0 0  
Methane 0.7152 0.0080 0.5094 0.1933 102 70 130 0 0

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Work Order: 09-6082  
Client Project ID: Complaint 200213187

# ANALYTICAL QC SUMMARY REPORT

TestCode: MEEP\_W

Sample ID	09-6083-01BMSD	SampleType	MSD	TestCode	MEEP_W	Run ID	FID4_090812A	Prep Date	8/12/2009	Units	mg/L
	Batch ID	GAS081209	TestNo	RSKSOP175	FieldID	FB411	Analysis Date	8/12/2009	SeqNo	890735	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethane	1.145	0.016	0.9548	0	120	70	130	1.151	0.486	30	
Ethene	1.267	0.024	1.11	0	114	70	140	1.273	0.493	30	
Methane	0.71	0.0080	0.5094	0.1933	101	70	130	0.7152	0.724	30	

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Work Order: 09-6082  
Client Project ID: Complaint 200213187

# ANALYTICAL QC SUMMARY REPORT

TestCode: ALK\_WGRP

Sample ID	MBLK 8/13/09	SampleType: MBLK	TestCode: ALK_WGRP	Run ID: ALK_090813A	Prep Date: 8/13/2009	Units: mg/L CaCO3
	Batch ID: R49236	TestNo: SM2320B	FileID: 47		Analysis Date: 8/13/2009	SeqNo: 891319
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Alkalinity U 5.0

Sample ID	LCS	SampleType: LCS	TestCode: ALK_WGRP	Run ID: ALK_090813A	Prep Date: 8/13/2009	Units: mg/L CaCO3
	Batch ID: R49236	TestNo: SM2320B	FileID: 48		Analysis Date: 8/13/2009	SeqNo: 891320
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Alkalinity	101.7	5.0	100	0	102	90 110 0 0

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Work Order: 09-6082  
Client Project ID: Complaint 200213187

## ANALYTICAL QC SUMMARY REPORT

TestCode: F\_W

Sample ID	MBLK 08/13/09	SamplType: MBLK	TestCode: F_W	Run ID: F_090813A	Prep Date: 8/13/2009	Units: mg/L
	Batch ID: R49240		TestNo: SM 4500-F C	FileID: 1	Analysis Date: 8/13/2009	SeqNo: 891408
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	U	0.20				
Sample ID	MBLK 08/13/09	SamplType: MBLK	TestCode: F_W	Run ID: F_090813A	Prep Date: 8/13/2009	Units: mg/L
	Batch ID: R49240		TestNo: SM 4500-F C	FileID: 1	Analysis Date: 8/13/2009	SeqNo: 891433
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	U	0.20				
Sample ID	LCS	SamplType: LCS	TestCode: F_W	Run ID: F_090813A	Prep Date: 8/13/2009	Units: mg/L
	Batch ID: R49240		TestNo: SM 4500-F C	FileID: 2	Analysis Date: 8/13/2009	SeqNo: 891409
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	9.688	0.20	10	0	96.9	95 105 0 0
Sample ID	LCS	SamplType: LCS	TestCode: F_W	Run ID: F_090813A	Prep Date: 8/13/2009	Units: mg/L
	Batch ID: R49240		TestNo: SM 4500-F C	FileID: 2	Analysis Date: 8/13/2009	SeqNo: 891434
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	10.04	0.20	10	0	100	95 105 0 0

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Work Order: 09-6082  
Client Project ID: Complaint 200213187ANALYTICAL QC SUMMARY REPORT  
TestNo: E300.0

Sample ID: MB 08/12/09	Sample Type: MBLK	TestCode: ANIONS_W	Run ID: IC-DX120_090812A	Prep Date: 8/12/09	Units: mg/L
Batch ID: R49226	TestNo: E300.0	FileID:	Analysis Date: 8/12/09	SeqNo: 891251	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	0	0.50			
Nitrite	0	0.013			
Nitrate	0	0.044			
Sulfate	0	0.50			
Sample ID: LCS ALLT218076	Sample Type: LCS	TestCode: ANIONS_W	Run ID: IC-DX120_090812A	Prep Date: 8/12/09	Units: mg/L
Batch ID: R49226	TestNo: E300.0	FileID:	Analysis Date: 8/12/09	SeqNo: 891250	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	18.97	2.5	20	0	94.9 90 110 0 0
Nitrite	19.84	0.065	20	0	99.2 90 110 0 0
Nitrate	19.78	0.22	20	0	98.9 90 110 0 0
Sulfate	29.13	2.5	30	0	97.1 90 110 0 0

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**ACCUTEST®**

Laboratories

*formerly Evergreen Analytical, Inc.*

August 21, 2009

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Trinidad, CO 81082

Lab Work Order: 09-6082  
Client Project ID: Complaint 200213187

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