



December 23, 2008

Ken Kreie  
Cordilleran Compliance  
826 21 1/2 Road  
Grand Junction, CO 81505

Lab Work Order: 08-9646  
Client Project ID: 008-2450

Dear Ken Kreie:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary. The invoice is included with this report or has been mailed to another party as indicated on the chain of custody.

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

EAL 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 Evergreen Analytical. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,

A handwritten signature in dark ink, appearing to read "Carl Smits", is written above the printed name.

Kaprie Hollman/Carl Smits  
Quality Assurance

001

**WORK ORDER Summary****Evergreen Analytical, Inc.****08-9646****Rpt To:** Ken Kreie**Email To:** kenkreie@oaconsulting.com

Cordilleran Compliance

826 21 1/2 Road

Grand Junction, CO 81505

(970) 263-7800

12/18/2008 8:30:46 AM

**Client Project ID:** 008-2450**QC Level:** LEVEL I**Comments:** Add Sample Summary Report to all results packages.

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
08-9646-01A	CB#6 SS1	Soil	12/17/08 1150	12/18/08	TVH_S *	8015: TVH-Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/31/08
08-9646-01B	CB#6 SS1	Soil	12/17/08 1150	12/18/08	TEH_S * ^	8015: TEH-Diesel	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	12/31/08
08-9646-01C	CB#6 SS1	Soil	12/17/08 1150	12/18/08	6010_S * ^	6010: Soil/Solids	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	6/15/09
08-9646-01C	CB#6 SS1	Soil	12/17/08 1150	12/18/08	7471_S ^	7471: Mercury Solid	<input type="checkbox"/>	<input type="checkbox"/>	12/23/08	1/14/09

**Definitions:** \* - Test Code has a Select List

**Evergreen Analytical Laboratory Inc.**

ADDRESS 826 21 $\frac{1}{2}$  Rd

PHONE 970 263-7800 FAX 970 263-7456 E-mail kenkreire@

REPORT CHROMATOGRAMS ☐ YES ☐ NO

INVOICE TO SAME

PROJECT I.D. 008-2450

P.O. # \_\_\_\_\_ EAL. QUOTE # \_\_\_\_\_

Sampler: JV, JS (sign)

**NOTE:** Identify Known Hazards Below

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME
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## MATRIX

## ANALYSES (check analysis)

For Laboratory  
use only

W.O.# 08-964

B.O.F.# 100

C/S (O) \_\_\_\_\_

∴ C/S (I) C. I. ✓

Cooler Temp. °C \_\_\_\_\_ S r

Seals Present ☒ Y ☐ N ☐ NA

Seals Intact 7 N

Headpiece Y / N / NA

By                     

CB#6 SS1	12-17-08	1150	3
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Does this analysis involve property transfer? ☐ Yes or ☒ No

Instructions: As, Ba, B, Cd, Cr, Cu, Pb, Hg, Mo, Ni, Se, Ag, Zn

Relinquished by: (Signature)

Date/Time

12-17-08

173-1-2

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Date/Time	
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Received by: (Signature)

Date/Time
-----------

12/18/87

11/6/01

Lab Order: 08-9646  
Client Project ID 008-2450

## CASE NARRATIVE

### SAMPLE RECEIVING

Custody seals were present and intact.  
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.  
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

Ken Kreie was notified by email that we could not meet the 12/22/2008 Turn-Around-Time as requested on this COC. There are no other anomalies to report. PM/JE

### METALS ANALYSIS

Method SW6010B: Chromium was initially detected in the method blank at 1.9 mg/Kg, so the method blank was rerun. The rerun was non-detect. The matrix spike (MS/MSD; on another the client's sample) recoveries for several analytes are below the QC limits due to suspected sample matrix interferences. All laboratory control spike recoveries are within the QC limits, proving the analysis is in control. There are no other anomalies to report. WKH/JE

### GAS CHROMATOGRAPHY

Method TEH\_S: There are no anomalies to report. MDS

Method TVH\_S: The Matrix spike (MS; on the client's sample) recovery for TVH is outside the QC limits. This is assumed due to a non-homogenous sample, since the RPD is also outside QC limits. The surrogate recovery for the matrix spike duplicate (MSD) is above the QC limit. The TVH recovery for the laboratory control spike (LCS) is within QC limits, proving the analysis is in control. There are no other anomalies to report. VM/JE

# SUMMARY OF SAMPLE RESULTS

## Evergreen Analytical, Inc.

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

Client Sample ID: CB#6 SS1  
Client Project ID: 008-2450  
Date Collected: 12/17/08  
Date Received: 12/18/08

Lab Work Order: 08-9646  
Lab Sample ID: 08-9646-01  
Sample Matrix: Soil

### Metals

Method: SW6010B

Analyst: MAB

	Result	LQL	DF	Units
Arsenic	U	3.6	1	mg/Kg
Barium	60	0.15	1	mg/Kg
Boron	U	1.5	1	mg/Kg
Cadmium	U	0.73	1	mg/Kg
Chromium	6.1	0.73	1	mg/Kg
Copper	11	0.36	1	mg/Kg
Lead	13	5.3	1	mg/Kg
Molybdenum	0.50	0.36	1	mg/Kg
Nickel	9.0	2.2	1	mg/Kg
Selenium	U	7.3	1	mg/Kg
Silver	U	2.2	1	mg/Kg
Zinc	45	2.2	1	mg/Kg

### Mercury

Method: SW7471A

Analyst: MAB

	Result	LQL	DF	Units
Mercury	0.034	0.019	1	mg/Kg

### Total Extractable Hydrocarbons

Method: SW8015B Mod

Analyst: MDS

	Result	LQL	DF	Units
Diesel Fuel (No. 2)	62	14	1	mg/Kg

### Total Volatile Hydrocarbons

Method: SW8015B Mod

Analyst: VM

	Result	LQL	DF	Units
TVH-Gasoline	4.3	1.0	5	mg/Kg

**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  
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

Print Date: 12/23/2008

820

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

Client Sample ID: CB#6 SS1  
Client Project ID: 008-2450  
Date Collected: 12/17/08  
Date Received: 12/18/08

Lab Work Order 08-9646  
Lab Sample ID: 08-9646-01A  
Sample Matrix: Soil

**TOTAL VOLATILE HYDROCARBONS**

Method: SW8015B MOD

Prep Method: SW5035

Date Prepared: 12/22/08

Lab File ID: TVB41222\024F

Dilution Factor: 5

Date Analyzed: 12/22/08

Method Blank: MB4122208

Analytes	CAS Number	Result	LQL	Units
TVH-Gasoline	86290-81-5	4.3	1.0	mg/Kg
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	111	QC Limits: 60-140	%REC



Analyst



Approved

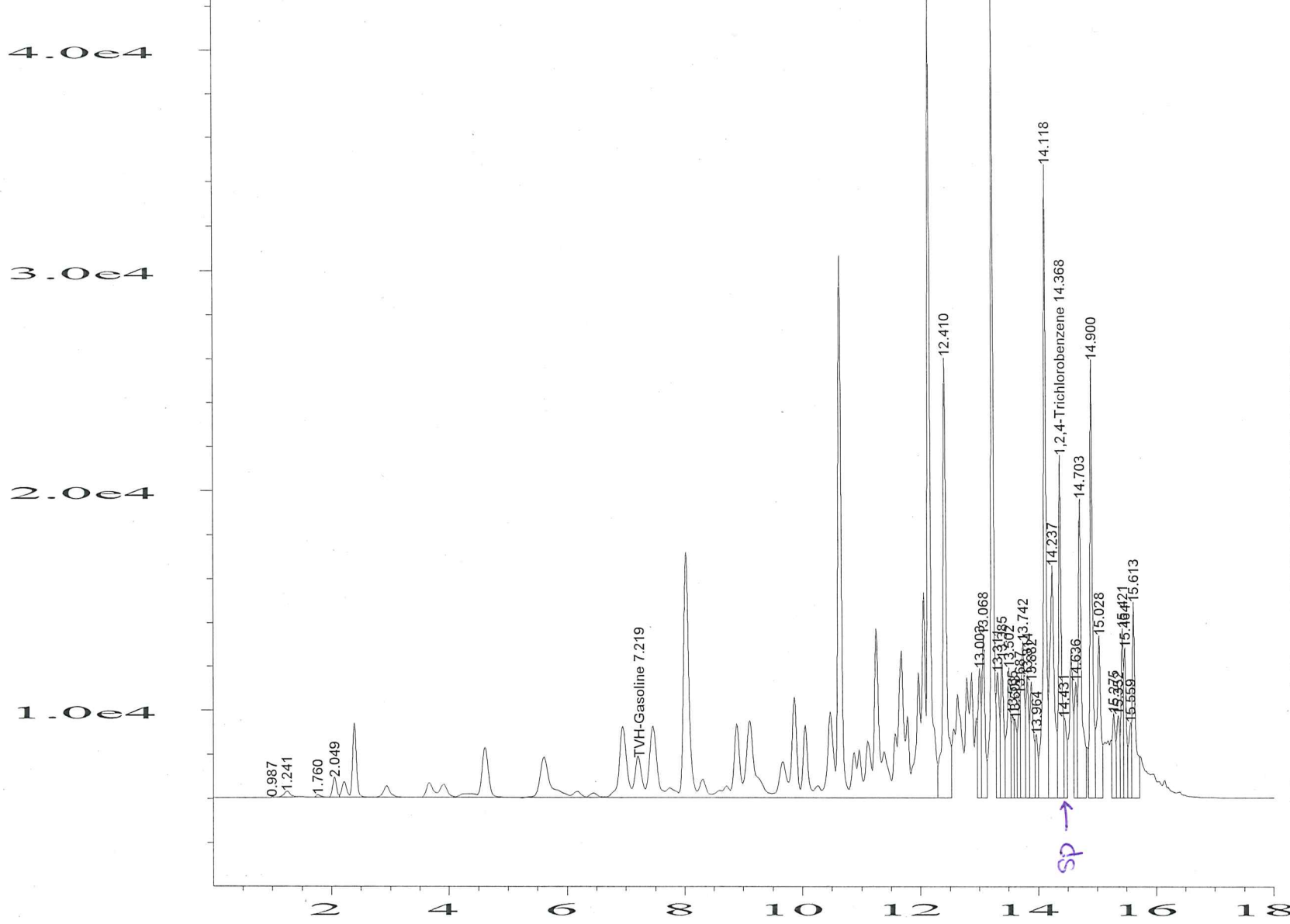
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

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S - Spike Recovery outside accepted limits  
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**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/23/08

user modified



Data File Name	: C:\HPCHEM\1\DATA\TVB41222\024F0101.D	
Operator	: Virginia Meyer	Page Number : 1
Instrument	: TVBTEXT4	Vial Number : 24
Sample Name	: 08-9646-01A	Injection Number : 1
Run Time Bar Code	: 5x	Sequence Line : 1
Acquired on	: 22 Dec 08 09:53 PM	Instrument Method: TS41217.MTH
Report Created on	: 23 Dec 08 07:32 AM	Analysis Method : TS41222.MTH
Last Recalib on	: 23 DEC 08 07:13 AM	Sample Amount : 0
Multiplier	: 1	ISTD Amount :

VM 12.23.08

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

Lab Order: 08-9646  
Client Project ID: 008-2450  
Matrix: Soil

Date Received: 12/18/08  
Date Prepared: 12/18/08  
Prep Batch ID: 17575  
Units: mg/Kg

**Total Extractable Hydrocarbons  
Diesel Fuel (No. 2)**

Method: SW8015B Mod

Prep Method: SW3550B

Lab ID	Client Sample ID	File ID	Date Collected	Date Analyzed	DF	Surr REC	Sample Results	LQL
08-9646-01B	CB#6 SS1	FID51218\006F0601	12/17/08	12/18/08	1	56%	62	14

Surrogate QC Limits 39-130 %REC      Surr: TBB



Analyst



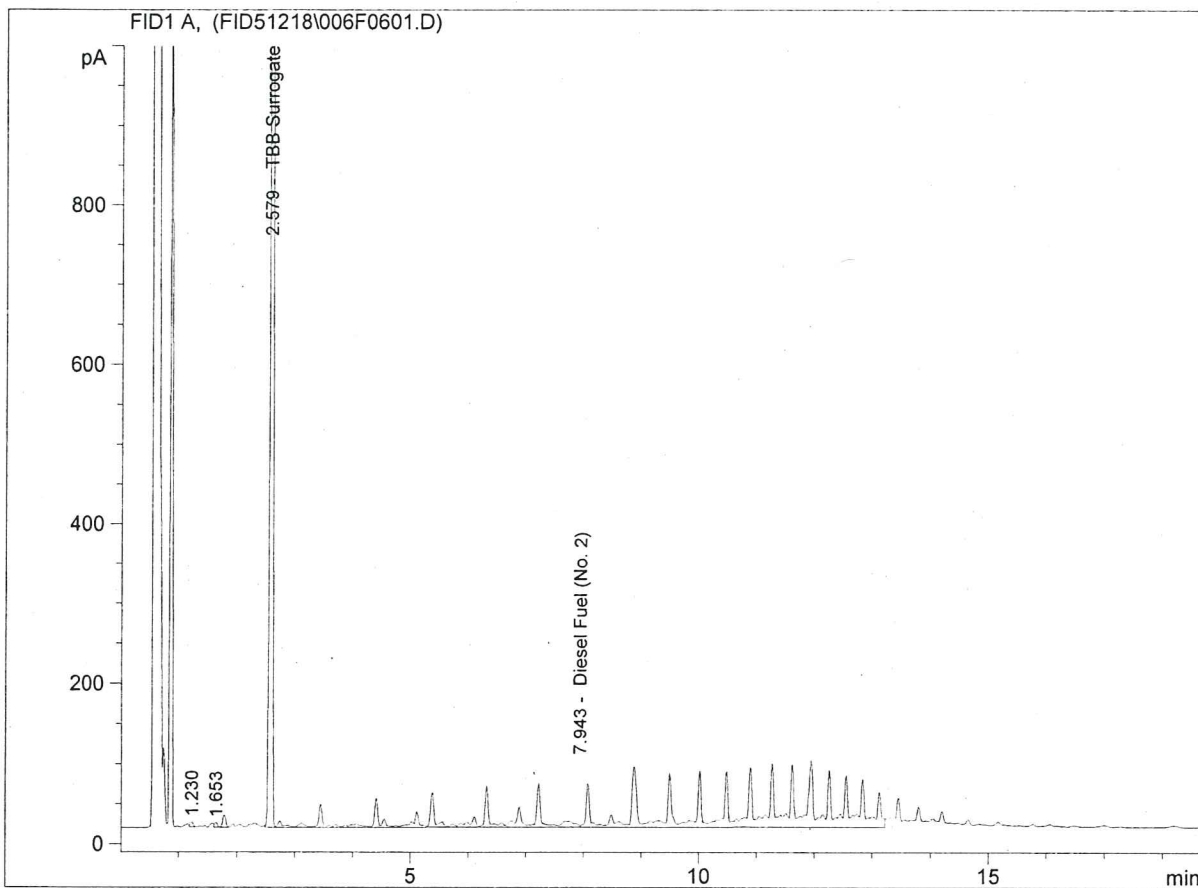
Approved

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S - Spike Recovery outside accepted limits  
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X - See case narrative  
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**Definitions:** DF - Dilution Factor  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 12/18/08

=====  
Injection Date : 12/18/2008 11:35:02 AM Location : Vial 6  
Sample Name : 08-9646-01B Inj. No. : 1  
Acq. Operator : Marcus Stephenson Inj. Vol.: 2 µl  
Acq. Method : FRONTBASE.M  
Analysis Method : C:\HPCHEM\1\METHODS\FID5F1212B.M  
Last Changed : 12/18/2008 11:08:11 am  
=====



=====  
EAL External Standard Report  
=====

Calib. Data Mod. : 12/18/2008 11:08:14 am  
Multiplier : 1.00  
Multiplier #2 : 1.00  
Sample Info : SAMP TEH\_S  
DF=1  
BATCH 17575

Exp. RT	RT [min]	Type	Area	Amount [mg/L]	Compound Name
2.585	2.579	VV	6952.446	✓ 557.893	TBB Surrogate
7.900	7.943	VBA+	7186.323	✓ 928.786	Diesel Fuel (No. 2)

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

Client Sample ID: CB#6 SS1  
Client Project ID: 008-2450  
Date Collected: 12/17/08  
Date Received: 12/18/08

Lab Work Order: 08-9646  
Lab Sample ID: 08-9646-01  
Sample Matrix: Soil

**METALS**

Method: SW6010B

Prep Method: SW3050B

Date Prepared: 12/18/08  
Date Analyzed: 12/19/08

Lab File ID: 121908am  
Method Blank: MB-17581

Dilution Factor: 1  
Lab Fraction ID: 08-9646-01C

Analytes	CAS Number	Result	LQL	Units
Arsenic	7440-38-2	U	3.6	mg/Kg
Barium	7440-39-3	60	0.15	mg/Kg
Boron	7440-42-8	U	1.5	mg/Kg
Cadmium	7440-43-9	U	0.73	mg/Kg
Chromium	7440-47-3	6.1	0.73	mg/Kg
Copper	7440-50-8	11	0.36	mg/Kg
Lead	7439-92-1	13	5.3	mg/Kg
Molybdenum	7439-98-7	0.50	0.36	mg/Kg
Nickel	7440-02-0	9.0	2.2	mg/Kg
Selenium	7782-49-2	U	7.3	mg/Kg
Silver	7440-22-4	U	2.2	mg/Kg
Zinc	7440-66-6	45	2.2	mg/Kg

**MERCURY**

Method: SW7471A

Prep Method: SW7471A

Date Prepared: 12/19/08  
Date Analyzed: 12/22/08

Lab File ID: 122208  
Method Blank: MB-17573

Dilution Factor: 1  
Lab Fraction ID: 08-9646-01C

Analytes	CAS Number	Result	LQL	Units
Mercury	7439-97-6	0.034	0.019	mg/Kg



Analyst



Approved

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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: 12/23/2008

# **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: 08-9646

Client Project ID: 008-2450

## ANALYTICAL QC SUMMARY REPORT

BatchID: R44195

Sample ID: MB4122208	SampType: MBLK	TestCode: TVH_S	Run ID: TVHBTEX4_081222A					Prep Date: 12/22/08	Units: mg/Kg		
	Batch ID: R44195	TestNo: SW8015B Mo	FileID: TVB41222\022F					Analysis Date: 12/22/08	SeqNo: 783279		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TVH-Gasoline	U	1.0									
Surr: 1,2,4-Trichlorobenzene (S)	408.4	0	500	0	81.7	60	140	0	0		

Sample ID: LCS4122208	SampType: LCS	TestCode: TVH_S	Run ID: TVHBTEX4_081222A					Prep Date: 12/22/08	Units: mg/Kg		
	Batch ID: R44195	TestNo: SW8015B Mo	FileID: TVB41222\023F					Analysis Date: 12/22/08	SeqNo: 783280		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TVH-Gasoline	9.755	1.0	11	0	88.7	70	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	557.7	0	500	0	112	60	140	0	0		

Sample ID: 08-9646-01AMS	SampType: MS	TestCode: TVH_S	Run ID: TVHBTEX4_081222A					Prep Date: 12/22/08	Units: mg/Kg		
Client ID: CB#6 SS1	Batch ID: R44195	TestNo: SW8015B Mo	FileID: TVB41222\025F					Analysis Date: 12/22/08	SeqNo: 783282		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TVH-Gasoline	8.77	1.0	11	4.28	40.8	62	130	0	0		S
Surr: 1,2,4-Trichlorobenzene (S)	611.1	0	500	0	122	60	140	0	0		

Sample ID: 08-9646-01AMSD	SampType: MSD	TestCode: TVH_S	Run ID: TVHBTEX4_081222A					Prep Date: 12/22/08	Units: mg/Kg		
Client ID: CB#6 SS1	Batch ID: R44195	TestNo: SW8015B Mo	FileID: TVB41222\026F					Analysis Date: 12/22/08	SeqNo: 783283		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TVH-Gasoline	12.04	1.0	11	4.28	70.5	62	130	8.77	31.4	30	R
Surr: 1,2,4-Trichlorobenzene (S)	704.2	0	500	0	141	60	140	0	0	0	S

**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: 08-9646

Client Project ID: 008-2450

## ANALYTICAL QC SUMMARY REPORT

BatchID: 17575

Sample ID: MB-17575		SampType: MBLK	TestCode: TEH_S		Run ID: FID5_081218A			Prep Date: 12/18/08		Units: mg/Kg		
		Batch ID: 17575	TestNo: SW8015B Mo		FileID: FID51218\004F0401			Analysis Date: 12/18/08		SeqNo: 782026		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Diesel Fuel (No. 2)	U	14										
Surr: TBB	42.22	0	66.67	0	63.3	39	130	0	0			

Sample ID: LCS-17575		SampType: LCS	TestCode: TEH_S		Run ID: FID5_081218A			Prep Date: 12/18/08		Units: mg/Kg		
		Batch ID: 17575	TestNo: SW8015B Mo		FileID: FID51218\005F0501			Analysis Date: 12/18/08		SeqNo: 782027		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Diesel Fuel (No. 2)	687.9	14	666.7	0	103	70	130	0	0			
Surr: TBB	43.95	0	66.67	0	65.9	42	130	0	0			

Sample ID: 08-9640-05AMS		SampType: MS	TestCode: TEH_S		Run ID: FID5_081218A			Prep Date: 12/18/08		Units: mg/Kg		
		Batch ID: 17575	TestNo: SW8015B Mo		FileID: FID51218\012F1201			Analysis Date: 12/18/08		SeqNo: 782034		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Diesel Fuel (No. 2)	739.4	14	664.5	28.94	107	70	130	0	0			
Surr: TBB	44.5	0	66.45	0	67	39	130	0	0			

Sample ID: 08-9640-05AMSD		SampType: MSD	TestCode: TEH_S		Run ID: FID5_081218A			Prep Date: 12/18/08		Units: mg/Kg		
		Batch ID: 17575	TestNo: SW8015B Mo		FileID: FID51218\013F1301			Analysis Date: 12/18/08		SeqNo: 782035		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Diesel Fuel (No. 2)	765.9	14	666.7	28.94	111	70	130	739.4	3.52	30		
Surr: TBB	46.24	0	66.67	0	69.4	39	130	0	0	0		

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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: 08-9646  
Client Project ID: 008-2450

## ANALYTICAL QC SUMMARY REPORT

BatchID: 17581

Sample ID: MB-17581		SampType: MBLK	TestCode: 6010_S		Run ID: ICP-OPTIMA 5300 DV_081219A			Prep Date: 12/18/2008		Units: mg/Kg	
		Batch ID: 17581	TestNo: SW6010B		FileID: 121908am			Analysis Date: 12/19/2008		SeqNo: 783100	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	U	5.0									
Barium	U	0.20									
Boron	U	2.0									
Cadmium	U	1.0									
Chromium	1.904	1.0									
Copper	U	0.50									
Lead	U	7.3									
Molybdenum	U	0.50									
Nickel	U	3.0									
Selenium	U	10									
Silver	U	3.0									
Zinc	U	3.0									

Sample ID: MB-17581		SampType: MBLK	TestCode: 6010_S		Run ID: ICP-OPTIMA 5300 DV_081222B			Prep Date: 12/18/2008		Units: mg/Kg	
		Batch ID: 17581	TestNo: SW6010B		FileID:			Analysis Date: 12/22/2008		SeqNo: 783387	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	U	5.0	0	0	0	0	0	0	0		
Barium	U	0.20	0	0	0	0	0	0	0		
Boron	U	2.0	0	0	0	0	0	0	0		
Cadmium	U	1.0	0	0	0	0	0	0	0		
Chromium	U	1.0	0	0	0	0	0	0	0		
Copper	U	0.50	0	0	0	0	0	0	0		
Lead	U	7.3	0	0	0	0	0	0	0		
Molybdenum	U	0.50	0	0	0	0	0	0	0		
Nickel	U	3.0	0	0	0	0	0	0	0		
Selenium	U	10	0	0	0	0	0	0	0		
Silver	U	3.0	0	0	0	0	0	0	0		
Zinc	U	3.0	0	0	0	0	0	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: 08-9646

Client Project ID: 008-2450

## ANALYTICAL QC SUMMARY REPORT

BatchID: 17581

Sample ID: <b>LCS-17581</b>		SampType: <b>LCS</b>		TestCode: <b>6010_S</b>		Run ID: <b>ICP-OPTIMA 5300 DV_081219A</b>		Prep Date: <b>12/18/2008</b>		Units: <b>mg/Kg</b>	
		Batch ID: <b>17581</b>		TestNo: <b>SW6010B</b>		FileID: <b>121908am</b>		Analysis Date: <b>12/19/2008</b>		SeqNo: <b>783105</b>	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	215.8	5.0	217.8	0	99.1	76.8	138.6	0	0		
Barium	274.7	0.20	290.1	0	94.7	72	125.6	0	0		
Boron	117.6	2.0	92.57	0.4141	127	65.6	190.4	0	0		
Cadmium	157.2	0.99	159.4	0	98.6	78.3	127.3	0	0		
Chromium	152	0.99	159.4	1.904	94.2	67.7	136	0	0		B
Copper	123.6	0.50	139.6	0	88.5	70	121.3	0	0		
Lead	168.1	7.2	161.4	0	104	66.3	149.7	0	0		
Molybdenum	97.95	0.50	63.07	0	155	56.5	210.4	0	0		
Nickel	92.56	3.0	89.9	0	103	80.2	139.9	0	0		
Selenium	181.9	9.9	165.3	0	110	73.1	153.9	0	0		
Silver	94.8	3.0	58.32	0	163	99	239.4	0	0		
Zinc	662.6	3.0	805	0	82.3	65.9	117.2	0	0		

Sample ID: <b>08-9560-01AMS</b>		SampType: <b>MS</b>		TestCode: <b>6010_S</b>		Run ID: <b>ICP-OPTIMA 5300 DV_081219A</b>		Prep Date: <b>12/18/2008</b>		Units: <b>mg/Kg</b>	
		Batch ID: <b>17581</b>		TestNo: <b>SW6010B</b>		FileID: <b>121908am</b>		Analysis Date: <b>12/19/2008</b>		SeqNo: <b>783108</b>	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	132.9	3.6	142.9	22.54	77.2	75	125	0	0		
Barium	603.8	0.14	357.1	323.2	78.6	75	125	0	0		
Boron	130.2	1.4	142.9	7.122	86.2	75	125	0	0		
Cadmium	12.58	0.71	14.29	2.325	71.8	75	125	0	0		S
Chromium	127.8	0.71	142.9	20.77	74.9	75	125	0	0		B
Copper	138	0.36	142.9	25.96	78.4	75	125	0	0		
Lead	170.9	5.2	142.9	60.6	77.2	75	125	0	0		
Molybdenum	120.4	0.36	142.9	6.388	79.8	75	125	0	0		
Nickel	118.7	2.1	142.9	17.24	71	75	125	0	0		S
Selenium	83.91	7.1	142.9	0	58.7	75	125	0	0		S
Silver	11.83	2.1	14.29	0	82.8	75	125	0	0		
Zinc	316.2	2.1	142.9	158	111	75	125	0	0		

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 X - See case narrative

Work Order: 08-9646

Client Project ID: 008-2450

## ANALYTICAL QC SUMMARY REPORT

BatchID: 17581

Sample ID: 08-9560-01AMSD		SampType: MSD		TestCode: 6010_S		Run ID: ICP-OPTIMA 5300 DV_081219A		Prep Date: 12/18/2008		Units: mg/Kg	
		Batch ID: 17581		TestNo: SW6010B		FileID: 121908am		Analysis Date: 12/19/2008		SeqNo: 783109	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	128.8	3.6	146	22.54	72.8	75	125	132.9	3.09	20	S
Barium	588.6	0.15	365	323.2	72.7	75	125	603.8	2.56	20	S
Boron	129.7	1.5	146	7.122	84	75	125	130.2	0.366	20	
Cadmium	12.95	0.73	14.6	2.325	72.8	75	125	12.58	2.93	20	S
Chromium	130.5	0.73	146	20.77	75.1	75	125	127.8	2.09	20	B
Copper	138.2	0.36	146	25.96	76.9	75	125	138	0.168	20	
Lead	190.9	5.3	146	60.6	89.3	75	125	170.9	11.1	20	
Molybdenum	120.3	0.36	146	6.388	78	75	125	120.4	0.123	20	
Nickel	119.5	2.2	146	17.24	70	75	125	118.7	0.652	20	S
Selenium	87.81	7.3	146	0	60.1	75	125	83.91	4.55	20	S
Silver	12.06	2.2	14.6	0	82.6	75	125	11.83	1.93	20	
Zinc	299.7	2.2	146	158	97.1	75	125	316.2	5.33	20	

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Work Order: 08-9646

Client Project ID: 008-2450

## ANALYTICAL QC SUMMARY REPORT

BatchID: 17573

Sample ID: <b>MB-17573</b>		SampType: <b>MBLK</b>	TestCode: <b>7471_S</b>		Run ID: <b>HG ANALYZER_081222A</b>		Prep Date: <b>12/19/2008</b>		Units: <b>mg/Kg</b>		
		Batch ID: <b>17573</b>	TestNo: <b>SW7471A</b>		FileID: <b>122208</b>		Analysis Date: <b>12/22/2008</b>		SeqNo: <b>783121</b>		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	U	0.020									

Sample ID: <b>LCS-17573</b>		SampType: <b>LCS</b>	TestCode: <b>7471_S</b>		Run ID: <b>HG ANALYZER_081222A</b>		Prep Date: <b>12/19/2008</b>		Units: <b>mg/Kg</b>		
		Batch ID: <b>17573</b>	TestNo: <b>SW7471A</b>		FileID: <b>122208</b>		Analysis Date: <b>12/22/2008</b>		SeqNo: <b>783122</b>		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.061	0.035	1.088	0	97.6	46.5	141	0	0		

Sample ID: <b>08-9423-01CMS</b>		SampType: <b>MS</b>	TestCode: <b>7471_S</b>		Run ID: <b>HG ANALYZER_081222A</b>		Prep Date: <b>12/19/2008</b>		Units: <b>mg/Kg</b>		
		Batch ID: <b>17573</b>	TestNo: <b>SW7471A</b>		FileID: <b>122208</b>		Analysis Date: <b>12/22/2008</b>		SeqNo: <b>783124</b>		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.4067	0.019	0.3846	0.02212	100	70	130	0	0		

Sample ID: <b>08-9423-01CMSD</b>		SampType: <b>MSD</b>	TestCode: <b>7471_S</b>		Run ID: <b>HG ANALYZER_081222A</b>		Prep Date: <b>12/19/2008</b>		Units: <b>mg/Kg</b>		
		Batch ID: <b>17573</b>	TestNo: <b>SW7471A</b>		FileID: <b>122208</b>		Analysis Date: <b>12/22/2008</b>		SeqNo: <b>783125</b>		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.4029	0.019	0.3846	0.02212	99	70	130	0.4067	0.950	20	

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