

WPXENERGY Sample Location Map: RMV 29-27

39.502753 -107.877756
 Section 27, Township 6 South, Range 94 West

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|--|--|--|
| <ul style="list-style-type: none"> ● Water Sample Location ● Field Screen Sample Location Impacted Area | <p>Transportation</p> <ul style="list-style-type: none"> CO Highways County Roads Local Streets WPX Access | <p>Hydrography</p> <ul style="list-style-type: none"> Ditch Intermittent Stream Perennial Stream Waterbody Watershed |
|--|--|--|

H&L COMPLIANCE SOLUTIONS, INC.
 ENVIRONMENTAL CONSULTANTS



Author: B. Hall
Revision: 1
Date: 12/2/2014



July 03, 2007

Mark Mumby
HRL Compliance Solutions
216 North Avenue, Suite 1
Grand Junction, CO 81501

Lab Work Order: 07-4007
Client Project ID: RWF11-27

Dear Mark Mumby:

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 one month from the date of this letter. 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,


Carl Smits / Kaprie Hollman
Technical Director of Chemical Analysis

WORK ORDER Summary

Evergreen Analytical, Inc.

07-4007

Rpt To: Mark Mumby
 HRL Compliance Solutions
 216 North Avenue, Suite 1
 Grand Junction, CO 81501
 (970) 243-3271

Fax To: Mark Mumby

FX: (970) 243-3280

6/22/2007 8:46:40 AM

Client Project ID: RWF11-27
 QC Level: Level I

Comments:

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold MS	Date Due	Hold Time
07-4007-01A	RWF11-27-UG	Surface Water	6/20/07 1015	6/21/07	8021_W*	8021: BTEX	<input type="checkbox"/>	6/26/07	7/04/07
07-4007-01B	RWF11-27-UG	Surface Water	6/20/07 1015	6/21/07	ANIONS_W*	300.0: Anions by IC	<input type="checkbox"/>	7/03/07	6/22/07
07-4007-02A	RWF11-27-DG	Surface Water	6/20/07 1020	6/21/07	8021_W*	8021: BTEX	<input type="checkbox"/>	6/26/07	7/04/07
07-4007-02B	RWF11-27-DG	Surface Water	6/20/07 1020	6/21/07	ANIONS_W*	300.0: Anions by IC	<input type="checkbox"/>	7/03/07	6/22/07

Definitions: * - Test Code has a Select List

Evergreen Analytical, Inc.

Date: 03-Jul-07

Client Project ID: RWF11-27

Lab Order: 07-4007

CASE NARRATIVE

SAMPLE RECEIVING

Custody seals were present and intact.

The temperature of the sample(s) upon arrival was 3.7 °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

Analyses performed on samples in this work order 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. CMS

CLIENT SERVICES

There are no anomalies to report. PM

GENERAL CHEMISTRY

Chloride : There are no anomalies to report. MM

GAS CHROMATOGRAPHY

Method 8021_W: There are no anomalies to report. HJ

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

Client Sample ID: RWF11-27-UG
Client Project ID: RWF11-27
Date Collected: 6/20/07
Date Received: 6/21/07

Lab Work Order: 07-4007
Lab Sample ID: 07-4007-01A
Sample Matrix: Surface Water

AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 6/22/07

Lab File ID: TVB40622\005R

Dilution Factor: 1

Date Analyzed: 6/22/07

Method Blank: MB4062207

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	89	QC Limits: 60-140	%REC



Analyst



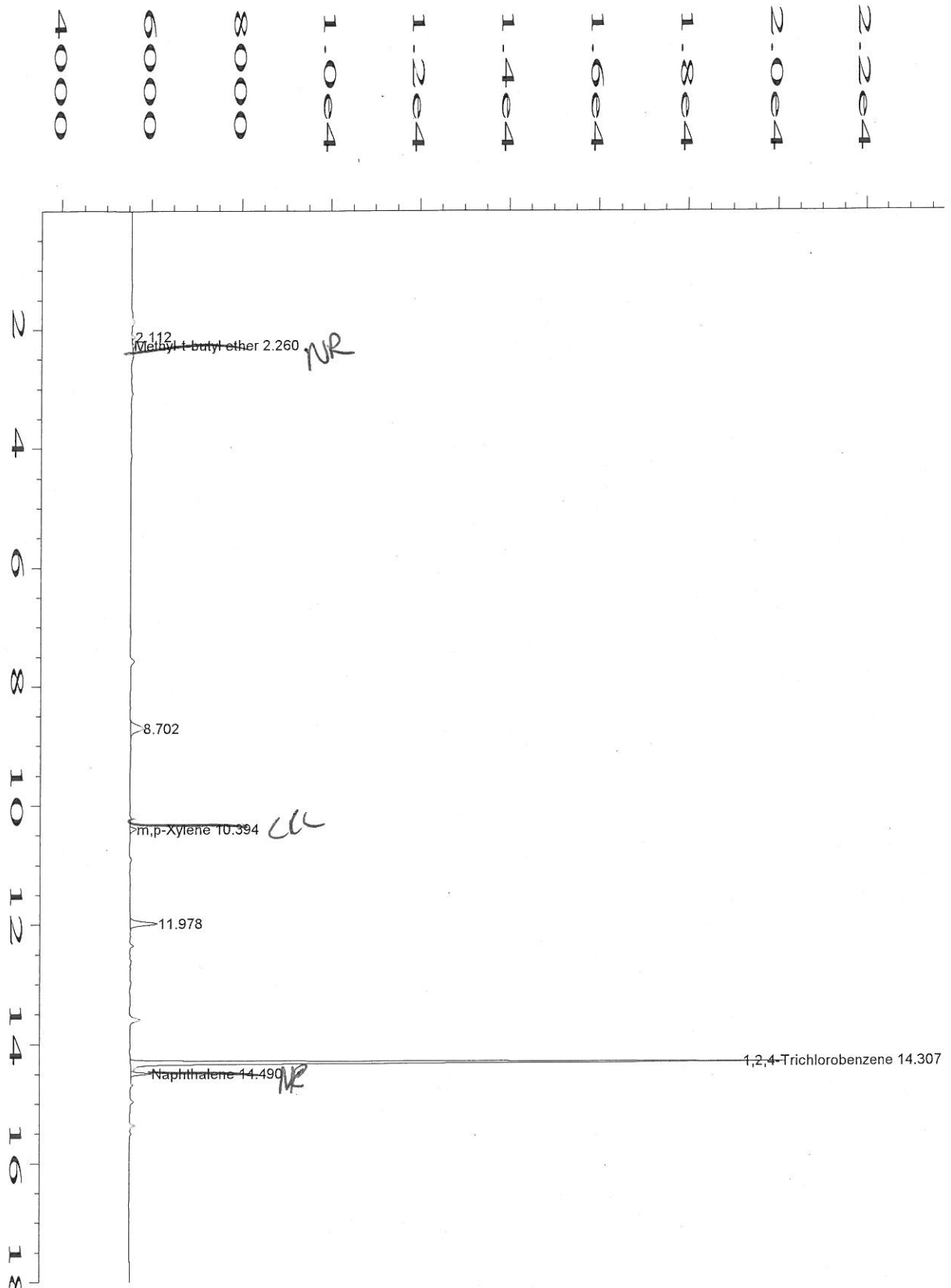
Approved

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.

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: LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 6/25/07



Data File Name : C:\HPCHEM\1\DATA\TVB40622\005R0101.D
 Operator : Haley Jones Page Number : 1
 Instrument : TVHBTEX4 Vial Number : 5
 Sample Name : 07-4007-01A Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 22 Jun 07 07:20 PM Instrument Method: TS40520.MTH
 Report Created on: 22 Jun 07 07:38 PM Analysis Method : BS40522.MTH
 Last Recalib on : 23 MAY 07 08:52 AM Sample Amount : 0
 Multiplier : 1 ISTD Amount :
 Sample Info : SAMP
 DF=1

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

Client Sample ID: RWF11-27-DG
Client Project ID: RWF11-27
Date Collected: 6/20/07
Date Received: 6/21/07

Lab Work Order: 07-4007
Lab Sample ID: 07-4007-02A
Sample Matrix: Surface Water

AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 6/22/07

Lab File ID: TVB40622\008R

Dilution Factor: 1

Date Analyzed: 6/22/07

Method Blank: MB4062207

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	92	QC Limits: 60-140	%REC



Analyst



Approved

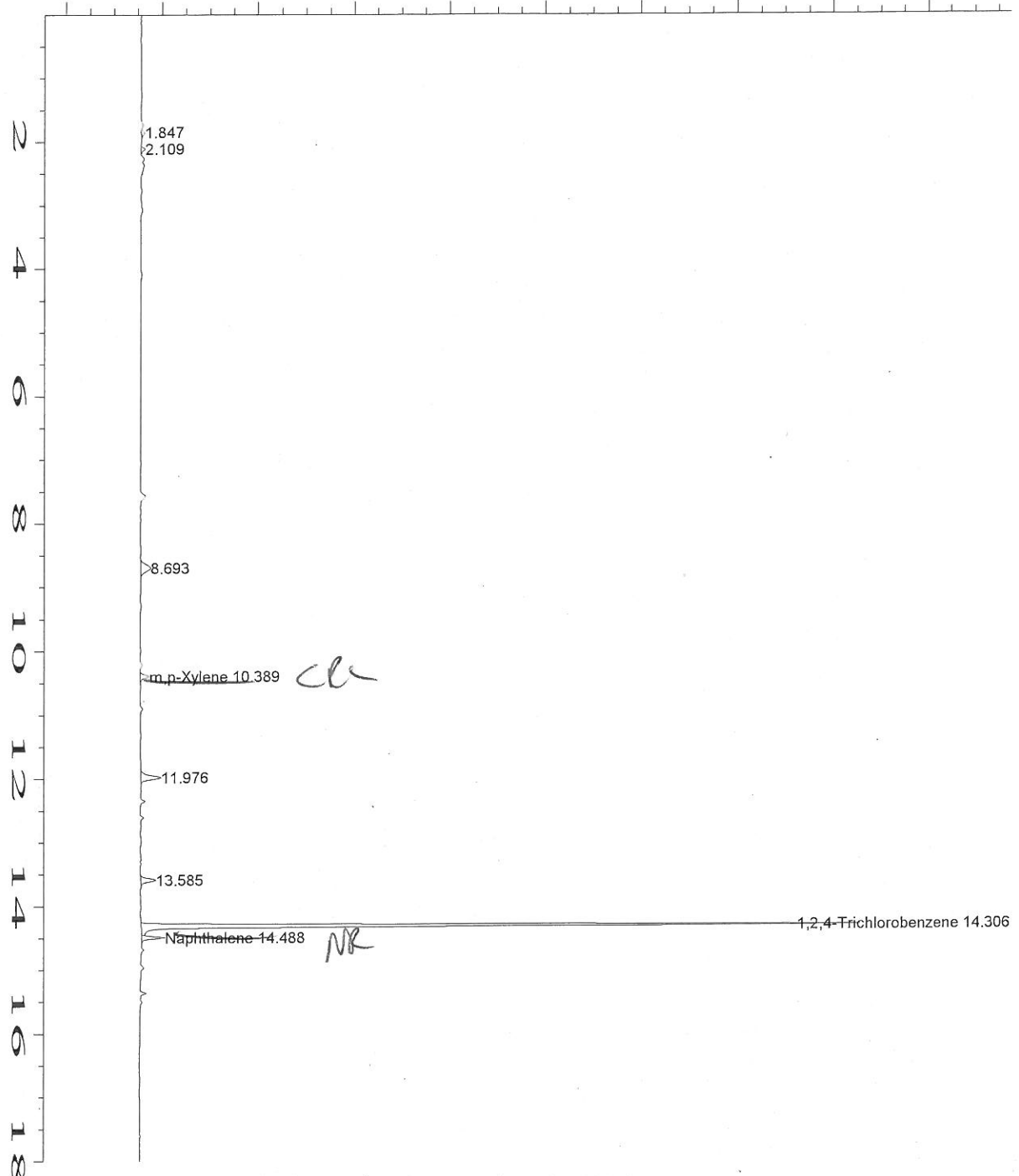
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

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: LQL - Lower Quantitation Limit
 Surr - Surrogate

Print Date: 6/25/07

40000
 60000
 80000
 1.0e4
 1.2e4
 1.4e4
 1.6e4
 1.8e4
 2.0e4
 2.2e4



W
6/25/07

Data File Name : C:\HPCHEM\1\DATA\TVB40622\008R0101.D
 Operator : Haley Jones Page Number : 1
 Instrument : TVHBTEX4 Vial Number : 8
 Sample Name : 07-4007-02A Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 22 Jun 07 09:04 PM Instrument Method: TS40520.MTH
 Report Created on: 22 Jun 07 09:22 PM Analysis Method : BS40522.MTH
 Last Recalib on : 23 MAY 07 08:52 AM Sample Amount : 0
 Multiplier : 1 ISTD Amount :
 Sample Info : SAMP
 DF=1

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

Client Project ID RWF11-27

Lab Order: 07-4007
Units: mg/L

Method: E300.0
Anions by IC
Chloride

Prep Method: E300.0

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
07-4007-01B	RWF11-27-UG	Surface Water	6/21/07	6/20/07 1015	6/25/07	6/25/07 1247	48.4	0.50	1
07-4007-02B	RWF11-27-DG	Surface Water	6/21/07	6/20/07 1020	6/25/07	6/25/07 1301	48.3	0.50	1

Comments:


Analyst


Approved

Qualifiers: J - Indicates an estimated value when the compound is detected, but is below the LQL
H - Sample analysis exceeded analytical holding time
U - Compound analyzed for but not detected
X - See case narrative

Definitions: DF - Dilution Factor
LQL - Lower Quantitation Limit

*- Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

QUALITY ASSURANCE REPORTS

METHOD BLANKS (MB, MEB)

LABORATORY CONTROL SPIKES (LCS)

MATRIX SPIKES (MS/MSD)*

DUPLICATES (DUP)*

***Only included if requested or if performed on this client's samples.**

Work Order: 07-4007
Client Project ID: RWF11-27

ANALYTICAL QC SUMMARY REPORT
BatchID: R32502

Sample ID: MB4062207	Sample Type: MBLK	TestCode: 8021_W	Run ID: TVHBTX4_070622A	Prep Date: 6/22/07	Units: µg/L
Batch ID: R32502	TestNo: SW8021B	FileID: TVB406221003R	Analysis Date: 6/22/07	SeqNo: 576550	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Benzene	U	1.0	25.5	0	106	70	130	0	0
Toluene	U	2.0	183.6	0	99.9	70	130	0	0
Ethylbenzene	U	2.0	36.8	0	91.7	70	130	0	0
m,p-Xylene	U	2.0	136.3	0	102	70	130	0	0
o-Xylene	U	2.0	54.05	0	94.5	70	130	0	0
Surr: 1,2,4-Trichlorobenzene (S)	80.76	0	100	0	80.8	60	140	0	0

Sample ID: LCS4062207	Sample Type: LCS	TestCode: 8021_W	Run ID: TVHBTX4_070622A	Prep Date: 6/22/07	Units: µg/L
Batch ID: R32502	TestNo: SW8021B	FileID: TVB406221004R	Analysis Date: 6/22/07	SeqNo: 576551	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Benzene	27.05	1.0	25.5	0	106	70	130	0	0
Toluene	183.4	2.0	183.6	0	99.9	70	130	0	0
Ethylbenzene	33.73	2.0	36.8	0	91.7	70	130	0	0
m,p-Xylene	139.1	2.0	136.3	0	102	70	130	0	0
o-Xylene	54.05	2.0	57.2	0	94.5	70	130	0	0
Surr: 1,2,4-Trichlorobenzene (S)	117.4	0	100	0	117	60	140	0	0

Sample ID: 07-4007-01AMS	Sample Type: MS	TestCode: 8021_W	Run ID: TVHBTX4_070622A	Prep Date: 6/22/07	Units: µg/L
Client ID: RWF11-27-UG	Batch ID: R32502	TestNo: SW8021B	FileID: TVB406221006R	Analysis Date: 6/22/07	SeqNo: 576553
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Benzene	27.99	1.0	25.5	0	110	70	130	0	0
Toluene	189.1	2.0	183.6	0	103	70	130	0	0
Ethylbenzene	34.47	2.0	36.8	0	93.7	62	130	0	0
m,p-Xylene	142.3	2.0	136.3	0	104	70	134	0	0
o-Xylene	55.63	2.0	57.2	0	97.3	63	130	0	0
Surr: 1,2,4-Trichlorobenzene (S)	112	0	100	0	112	60	140	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: 07-4007
 Client Project ID: RWF11-27

ANALYTICAL QC SUMMARY REPORT

BatchID: R32502

Sample ID: 07-4007-01AMSD	Samp Type: MSD	TestCode: 8021_W	Run ID: TVHBTX4_070622A	Prep Date: 6/22/07	Units: µg/L						
Client ID: RWF11-27-UG	Batch ID: R32502	TestNo: SW8021B	Field: TVB406221007R	Analysis Date: 6/22/07	SeqNo: 576554						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	27.51	1.0	25.5	0	108	70	130	27.99	1.74	30	
Toluene	186.5	2.0	183.6	0	102	70	130	189.1	1.35	30	
Ethylbenzene	34.08	2.0	36.8	0	92.6	62	130	34.47	1.14	30	
m,p-Xylene	141	2.0	136.3	0	103	70	134	142.3	0.908	30	
o-Xylene	54.96	2.0	57.2	0	96.1	63	130	55.63	1.21	30	
Surr: 1,2,4-Trichlorobenzene (S)	117	0	100	0	117	60	140	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

Evergreen Analytical, Inc.

Date: 25-Jun-07

Work Order: 07-4007
Client Project ID: RWF11-27

ANALYTICAL QC SUMMARY REPORT

TestCode: ANIONS_W

Sample ID: METHOD BLANK	SampType: MBLK	TestCode: ANIONS_W	Run ID: IC-DX120_070625A	Prep Date: 6/25/07	Units: mg/L
Batch ID: R32520	TestNo: E300.0	FieldID:	Analysis Date: 6/25/07	SeqNo: 576783	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	U	0.50			

Sample ID: LCS Alltech ALLT21	SampType: LCS	TestCode: ANIONS_W	Run ID: IC-DX120_070625A	Prep Date: 6/25/07	Units: mg/L
Batch ID: R32520	TestNo: E300.0	FieldID:	Analysis Date: 6/25/07	SeqNo: 576782	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	19.03	1.0	20	0	95.2 90 110 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

